

A Register of Liberty Seated Half Dollar Varieties

Volume IV

New Orleans Branch Mint
1853-O WA to 1861-O



By **Bill Bugert**

With special edits by and consultations with Randy Wiley

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Cover coin is Randy Wiley's 1861-O CSA Obverse W-11 Half Dollar.
Cover artwork credit to Jane Waldron

**To My Friend, Mike Lloyd,
For your pioneering efforts on
1854-O Half Dollar die marriages.**

Foreword

This reference is the fourth in a series of planned books on the die marriages of Liberty Seated Half Dollars.

In May 2009, I published the first book, *A Register of Liberty Seated Half Dollar Varieties, Volume I, San Francisco Branch Mint*. That book lists all (228) known die marriages of the Liberty Seated half dollars of the San Francisco Branch Mint with extensive (almost 1,400) photographs, rarity ratings, and background information.

In May 2010, I published the second book, *A Register of Liberty Seated Half Dollar Varieties, Volume II, Carson City Branch Mint*. That book lists all (96) known die marriages of the Liberty Seated half dollars of the Carson City Branch Mint with extensive (over 900) photographs, rarity ratings, and background information. I published an updated second edition in July 2013; it included four new 1876-CC die marriages as well as many other updates and new information.

In June 2011, I published the third book, *A Register of Liberty Seated Half Dollar Varieties, Volume III, New Orleans Branch Mint, 1840-O to 1853-O NA*. That book lists all (217) die marriages of the Liberty Seated half dollars of the New Orleans Branch Mint inclusive of 1840-O to 1853-O No Arrows with extensive (almost 2,000) photographs, rarity ratings, and background information.

This reference contains similar information for the remaining die marriages (208) struck at the New Orleans Branch Mint from 1853-O WA to 1861-O.

In 1993, Randy Wiley and I finished *The Complete Guide to Liberty Seated Half Dollars*. That book listed a finite and pre-determined number of the most easily identifiable die varieties of the series. Many other die varieties were known at the time of publication but were not included for various reasons best discussed elsewhere. This register is different and individually documents Liberty Seated New Orleans Half Dollar die marriages of obverse, reverse, and collar dies for 1853-O With Arrows and Rays to 1861-O. It is commonly misunderstood by many collectors and dealers that the Liberty Seated denominations have been studied as extensively as the older copper and bust series, where the discovery of new die marriages is rare. This is far from reality. The older copper and bust series have been extensively collected and exhaustively studied for many decades. The Liberty Seated series are far behind in that respect and have a lot of catching up to do. I hope to help that along for the half dollars.

This Register does not include everything everyone wants to know about New Orleans Branch Mint Liberty Seated half dollars. Specifically, no information is included on condition census (generally, I have little interest in that) and there is no pricing information (pricing information has limited value because it is too volatile and including it would quickly outdate this reference). Alternatively, I have included estimated rarity ratings and will leave condition census and valuations for others to study and to report.

It is no coincidence that the name of this Register is similar to ML Beistle's 1929 reference on half dollar die varieties. His work provided me with my initial impetus to collect half dollars by die marriage. I have studied, written, and exhibited information about ML Beistle extensively and have an admiration for his personal and professional accomplishments.

Lastly, this publication could not have been possible without the cooperative efforts of Randy Wiley. He knows more about Liberty Seated Half Dollars than anyone I know. He and I have been studying the die marriages of these coins for decades and much of the information we derived together is contained herein.

Thanks for taking the time to read this and I hope this Register finds its way into your numismatic library.

Bill Bugert
Gettysburg, PA
October 2013

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Introduction

The purpose of this Register is four-fold:

- **To document all the currently known pre-Arrows Liberty Seated half dollar die marriages produced at the New Orleans Branch Mint**
- **To assist the beginning or advanced Liberty Seated half dollar collector into expanding beyond type, date, or date/mint collecting into die marriage collecting**
- **To aid the casual collector or dealer with proper variety identification and other pertinent information**
- **To establish a standard nomenclature for the Liberty Seated half dollar die marriages.**

At the time of publication, all known Arrows and post Arrows (1853-O WA to 1861-O) Liberty Seated New Orleans Branch Mint half dollar die marriages are documented in this register. I have included the key characteristics of obverse and reverse die marriages so that you could readily identify your half dollar. It is important to note that the mid-1800 minting technology had advanced to a state that, in contrast to the pre-1836 bust style designs, the date (with the exception of 1853-1855 Arrows half dollars), and mintmarks were the only design elements emplaced into the working dies used to mint coins. The other design elements such as dentils, Liberty, stars, denomination, legend, motto, and eagle were all in the hub and, consequently, have no variations when transferred to the working dies. These advancements, however convenient for the minting process, vastly compound the difficulty in identifying characteristics of the individual working dies, and consequently, the die marriages. We must rely on variations in the placements of the date and mintmark and die imperfections for proper variety identification.

For ease of the readers' use, I desired to depict each obverse and reverse die marriage on two pages; this space limitation forced me to be selective on the die characteristics that I specified and photographed. Consequently, I picked the die lines and cracks that I thought were most prevalent for that variety and that could be easily identified using a quality hand held 10-power magnifier and, for date grid measurements, a 10-power hand held optical comparator. Make no mistake about it; a good 10 to 30-power stereomicroscope with a reticle is a worthwhile investment when studying and attributing varieties of all denominations at home.

Excluding the Beistle number system that is not used today, the current standard Liberty Seated Half Dollar variety nomenclature is the WB-100 series system. This WB number, for Wiley-Bugert, is derived from the 1993 book, *The Complete Guide to Liberty Seated Half Dollars*. Unfortunately and a point of some confusion, many WB-100 numbers by design include more than one die marriage per number because that book lists major varieties only. For example, the 1840-O WB-104 Large Mintmark half dollar included eight reverse dies. This system is unsatisfactory for the serious half dollar variety collector where a single number represents a single die marriage. This Register starts anew with separate die marriages with WB-X series numbers.

It is very important to note that the die characteristics photographed and/or described herein may or may not be visible on your coin. Die states, coin wear, toning, damage, etc. may affect the visibility of these characteristics and, for those reasons, you may find some diagnostics on your half dollar that are not listed in my descriptions. In many cases, I have included photographs of the latest die state and may include comments of other die states. Coins grading below VG will not show most of the die characteristics I have depicted simply because the key die diagnostics are worn away.

In discussing my plans with others before this reference was published, some collectors and dealers wanted an online version while others wanted a useful physical media. I chose the latter in a workbook style three-ring binder and plastic spiral binding formats for easy desktop reference work and for

portable operations at a coin show. I wanted a user to be able to quickly and easily pluck useful attribution information from this Register. I believe this format accomplishes that. All too often, the hardbound books in my numismatic library are too tightly bound, making page turning awkward and potentially loosening the binding glue or breaking the binding's back. I did not want my readers to suffer this inconvenience especially when I wish my Register to be used often.

It is my desire that this reference creates sufficient interest in collecting by die marriage and someday the "Seated Half Nut Club" (i.e., similar to the "Bust Half Nut Club" where a requirement for membership is owning at least 100 different varieties of the bust half dollar series) is a well-known and popular club.

I know it will be a disappointment to many, but I did not include pricing information, grade availability, or valuations of the die varieties in this Register. In my experience, that type of information is very quickly outdated and useless after a few months if not updated. Collector interest and the market will drive most valuations. The financial complexities of the rare coin market are best left to the economists. As an alternative, I included initial rarity estimates. Almost all the rarity numbers are my estimates based primarily on years of observation and by discussions with other knowledgeable individuals. I have a varying comfort level with many of the dates; it will take years to properly associate a correct rarity number with a specific die marriage.

This book does not include a tutorial on basic coin collecting, grading half dollars, or a lengthy history behind the Liberty Seated series. I assume the reader has a basic understanding of these numismatic topics; besides, many other references cover them in great detail and I will not duplicate the efforts of others here. The following introductory sections contain a lot of background information required to understand the variety attributions of the Liberty Seated Half Dollar series. Please take sufficient time to read and understand them before attempting to use this Register.

At this point, I think it appropriate to provide some advice and encouragement to collectors of die marriages of Liberty Seated Half Dollars. First, if you are looking to complete a die marriage set in a few short years, look elsewhere. It will literally take many years of aggressive searching to fill all or most of the holes. Even with the benefit of a thick wallet, many die marriages seldom appear on the market and when they do, are quickly snatched up by other serious collectors with similar goals. If you bound your goal to collecting a few years, mints, or types, then the target becomes easier to attain. Otherwise, collecting all the die marriages of all the dates is an expensive nearly impossible lifetime commitment (e.g., there are 778 documented mintmarked Liberty Seated half dollars). I know of only three collectors, including myself, with the stamina to attempt this and, I can attest, I have spent over three decades collecting die marriages of these halves. However, it is a wonderful pastime that has kept my interest for many years and provided many hours of enjoyment; it also helps to have a supportive spouse or partner. I wish you the same.

Lastly, as I mentioned in the Foreword, this Register would not have been possible without the efforts of my numismatic friend and colleague, Randy Wiley. He and I have been studying these half dollars together since the early 1980's and we've spent many hours together engrossed in determining die diagnostics, counting reeds, taking notes, and discussing new finds. His astute analytical collecting techniques, motivation, and sheer determination are in a large part responsible for what is being published herein. For that and for his friendship, I thank him.

Abbreviations, Conventions, and Definitions of Terms Used in this Book

It is very important to understand the terms used throughout this text so that my written descriptions convey the proper meaning to you, the reader.

Liberty and LIBERTY. “Liberty” in lower case letters refers to the figure of Miss Liberty on the obverse. “LIBERTY” in upper case letters refers to the words LIBERTY found on the scroll of the obverse design.

Viewing a coin. Often confusing if not clarified, the terms “right” and “left” are used when viewing a coin and referencing features from the viewpoint of the observer’s right and left respectfully. For example, when referring to the eagle’s left claw, the claw referred to is that on the viewer’s left and NOT the eagle’s left claw (which would be on the observer’s right).

Star numbering. Obverse stars are counted clockwise starting with the first star on the lower left to the thirteenth star at the lower right.

Measuring units. I opted for the U.S. standard of inches to measure date height, mintmark size, and diameters of coins.

Photographs. Almost all images are not actual size but scaled to annotate various desired features. I chose to establish a common arbitrary reference point for the mintmark on each die marriage; mintmark positions are depicted relative to the flat topped upper edge of the letter F in HALF. Additionally, some collectors may want to reference date positions to the dentils below the date instead of the date grid technique. Consequently, date position images include the lower dentils.

Date Grid measurements. See the detailed explanation elsewhere in this Register.

Device and device naming. A device is the primary motif on the obverse and reverse die. For the obverse, the primary device is the figure of Liberty while on the reverse, it is the eagle. Supporting devices are also on the obverse and reverse. See the supplemental diagrams and descriptions.

Die Variety versus Die Marriage. These terms, although different, are used almost interchangeably. Die variety refers to a coin struck from dies and, irrespective of die states; all pieces from those dies have the same characteristics. Die marriage refers to a coin struck from a combination of three dies; the obverse, reverse, and collar dies. The differences are subtle but they, as mentioned, are almost used interchangeably. It is important to note that a die crack may help to identify a die variety but is a die state and not a separate die variety or marriage.

EDS, MDS, LDS, VLDS. These acronyms are short for early die state, middle die state, late die state, very late die state and refer to a subjective progress of die deterioration.

K-1 thru K-12. The abbreviation for a clock’s hour hand position (i.e., 1 o’clock thru 12 o’clock) specifically around the outer circumference of a coin.

Lines, Lumps, and Gouges. These terms are utilized when describing the various die diagnostics for each variety. A *line* on the coin is raised and results from a scratch, stray mark, slip of the engraver's tool, and/or polishing of the dies. A *lump* is a raised piece of metal on the coin that resulted from die damage, rust, and/or clashing of the dies. *Gouges* are also raised metal on a coin resulting from oddly shaped heavier damage to the die. These three items are critical to differentiating dies and identifying the key die characteristics.

Reverse olive leaf numbering system. Reverse olive leaves are numbered 1 thru 5 starting with 1 as the lowest olive leaf then numbering clockwise 2 thru the uppermost leaf as #5. Note: leaves 2 and 4 show only partially.



Reverse shield line numbering system. Reverse vertical shield lines are designated alpha-numerically with a letter designating a group of shield lines and a number referencing an individual vertical shield line within that group. For example, B-3 refers to the third (3) vertical line (counting from the left) in the second grouping of shield lines (group B). C-2 refers to the second shield line in the third grouping. Possibilities include A thru F – 1 thru 3.

Enhanced die crack drawings. On selected die marriages, I've included enhanced die crack diagrams. Prominent die cracks are hand drawn on low resolution printed photographs, scanned, and inserted for the readers use. As these die cracks are hand drawn and my hand is no longer optimally steady, they may not be exact and will not be all inclusive of the die cracks found on all die states of the dies; they are representative of the major die cracks that may be found for that die marriage. These enhanced die crack diagrams are meant to provide a quick visual reference and identification of specific dies.



W-#. Die marriages for the date 1861-O are designated with a W-#; W is an acronym for (Randy) Wiley. For this date, I digressed from the normal die marriage attribution nomenclature (i.e., WB-#) and instead used Randy Wiley's die marriage nomenclature (W-#). I do this to honor Randy and his efforts and to maintain consistency with his published information and that already in use.

WB-#. Die marriages for the dates 1853-O to 1860-O are designated with a WB-#; WB is an acronym for Wiley-Bugert. I gave much thought to what numbering system to use in this reference. Randy Wiley and I used a WB-100 series numbering system in our 1993 book, *The Complete Guide to Liberty Seated Half Dollars*. Although seemingly ideal, I could not use that same system because many WB-100 series numbers used in our 1993 book include multiple die marriages lumped under a single WB variety number. I wanted to have a compact, easily remembered and referenced system that, for inventory and display purposes, could be readily sorted on a computer. The WB-# format was the next best option and is used herein. To aid the reader and long-time collectors, cross references to our first book's WB-100 series numbers are included for each die marriage.

Cross references. References of a specific die marriage to other publications are provided with each varieties' description. WB is a reference to varieties listed in Randy Wiley and Bill Bugert's *The Complete Guide to Liberty Seated Half Dollars*.

New Orleans Half Dollar Design Types

The Arrows and post Arrows New Orleans Liberty Seated Half Dollars were minted at the New Orleans Branch Mint from 1853-O to 1861-O. The major design types of New Orleans Half Dollars during this period are detailed in the following table.

Major Design Type	Dates of Design Type	Design Characteristics
Arrows Obverse Rays Reverse	1853 Only	Outfacing arrowheads were added at each side of the date on the obverse and outstretching rays were added to the reverse to signify, in accordance with the Mint Act of 1853, a half dollar planchet weight change from 206.25 to 192 grains. These design elements were likely added to obverse and reverse temporary master dies to alleviate the possibility of them being omitted from the working dies.
Arrows Obverse	1853-1855	Outfacing arrowheads were added at each side of the date on the obverse to signify, in accordance with the Mint Act of 1853, a half dollar planchet weight change from 206.25 to 192 grains. As with 1853, these design elements were likely added to obverse and reverse temporary master dies to alleviate the possibility of them being omitted from the working dies.
Large Letters Reverse	The reverse dies for these Liberty Seated half dollars had large letters that were approximately .080" inches in height.	
	1842-1860 Reverse Hub 1	 <p>The type 1 reverse is readily identified by the short base on the letter (HA)L(F) and the lack of a lump along the eagle's left leg (see image at left).</p>
	1860-1861 Reverse Hub 2	 <p>The type 2 reverse is easily identified by the long base on the letter (HA)L(F) and a diagnostic lump along the eagle's left leg (see image at left).</p>

Later New Orleans Date Logotype Sizes

There are significant variations in the size (height) of the date logotype punch used on the working dies for Liberty Seated half dollars throughout the series. In the collecting community there is considerable disparity regarding the identification/labeling of these differences. For 1853-O to 1861-O, only a minor height difference exists for all dates except 1858, which has a noticeably larger date. The following table lists and depicts typical date sizes for the New Orleans Liberty Seated Half Dollars (1853-O WA to 1861-O).

Medium	Large	Extra Large
.076 - .086"	.089 - .096"	.098 - .102"
1859-O to 1861-O	1853-O to 1857-O	1858-O
		

Note: The Small Size Date Logotype punch (.056" - .064") was used on half dollars dated 1840-O to 1842-O and is described in Volume III of this Register.

Naming Conventions: Obverse



Note: Arrows at date for 1853-1855 and 1873-1874 only.

The central obverse design includes the figure of the Goddess Liberty seated on a rock looking over her right (observer's left) shoulder. Liberty is wearing a Greek chiton, or loose fitting gown, with a clasp at her shoulder. Her neck, upper chest, and arms are exposed. Liberty's hand supports the Shield of the United States, a sign of national preparedness, which is wrapped in a

scroll inscribed with the word LIBERTY; her other hand grasps a pole surmounted by a pileus, a liberty cap emblematic of freedom. Thirteen stars, representing the thirteen original states, are spaced around the outer design from K-8 to K-4. As with all early silver coinage, the outermost design has equally spaced design elements called dentils.

Naming Conventions: Reverse



Note: Rays on 1853 only.

The central reverse design portrays an eagle with wings displayed bearing the Shield of the United States on its chest. The eagle is clutching an olive branch, which symbolizes peace, in its right (observer's left) claw and three arrows, symbolizing preparedness for war,

in its left (observer's right) claw. The denomination abbreviated HALF DOL. is below the eagle and the legend UNITED STATES OF AMERICA is above the eagle. Like the obverse, the outermost design has equally spaced design elements called dentils.

Date Grid Measurements

Unlike bust coinage, all Liberty Seated Half Dollars were struck from dies with most of the designs (e.g., Liberty and stars) impressed initially from a hub. Consequently, differentiating dies is difficult at best and the die marriage collector must rely on non-hubbed die diagnostics. For the obverse die, these diagnostics include die lines and cracks, die gouges, die maintenance remnants, and most importantly, date placement. Dates were emplaced into the working die with multi-figure and sometimes single digit logotypes and, therefore, obverse dies may have noticeable die placement variations. Mastering a technique to define a date placement will facilitate a quick method of identifying possible die varieties for a given date placement, especially when no other diagnostics are evident. Here is such a method: the date grid measurement (e.g., M3.5, .030”).

The date grid is based on the position of the date's 1 and consists of two components: the position of the right vertical edge of the 1 with relation to Liberty's shield lines and, secondly, the distance between the top of the 1 and the base of the rock. A stereomicroscope with a linear scale on a reticule or an optical comparator is ideal for viewing and measuring the date placement. The photograph below symbolically depicts a microscope's reticle (vertical line) aligned in the correct measuring position. The shield lines are assigned an alphanumeric system whereby, the three center sets of shield lines are L (left), M, (middle), and R (right) and the individual shield lines are 1, 2, 3 (4, 5 are virtual shield lines equidistant in the large space between the shield line sets). The date placement is the real or virtual shield line (including a decimal increment between shield lines) where the reticle (aligned adjacent to the right edge of the 1) intersects the bottom inside shield edge. Increments of .5 signify an interpolation between two lines or virtual lines such that M2.5 is the seam between vertical stripes 2 and 3 while M3.5 is the right edge of vertical stripe 3, as below. Furthermore, the distance in inches between the top of the 1 and the bottom edge of the rock is the second component of the date grid. The example below is of an 1840 half dollar with a date grid of M3.5, .030”.



Be aware that date grid is not and is not meant to be an absolute identifier for a specific obverse die. It is merely a tool for identifying a numeric date position for possible obverse die identification. In my experience, two experienced numismatists with the same equipment on the same coin may come up with two slightly different date grids. Measuring a date grid is not absolute and I, therefore, do not use it to positively identify a specific obverse die. Many half dollars of different dies have the same date grid and, additionally, die states affect a date grid's measurement.

As a general rule, severe die wear or die polishing will cause the date distance measurement to be greater and the date grid measurement to be further to the left (e.g., an early die state coin with a date grid measurement of M3.5, .030" may measure M3, .032" in a later die state).

Identifying known die marriages by the date grid allows comparison of an unknown die variety's date placement, thereby narrowing down an unidentified obverse die to a limited number of known varieties. In my experience, many date placements are similar for a given date but different enough to allow minute differentiation. The list below represents the date grid measurements for hypothetical half dollars of a certain date:

Obverse	Date grid
1	M3 , .008"
2	M3 , .025"
3	M3.5, .028"
4	M4 , .022"
5	M4.5, .027"

When encountering an unidentified half dollar, measure the date grid and compare it to the list of known obverse dies for the same date. You should be able to identify it to one or two of the obverse dies. In my photo example, the obverse die is closest to obverse 3. Further study of other die diagnostics may confirm the identification.

Die states affect date grid measurements. Late die states with heavily polished or worn dies will have different measurements than the same die of an earlier dies state. For example, the distance between the top of the 1 and the rock may be greater on the polished die than the non-polished die. Consider this effect when comparing date grid measurements.

The date grid is a useful measurement to aid in identifying Liberty Seated half dollar obverse dies. Collectors of other Liberty Seated denominations utilize date placements in relation to dentils but I believe this method is more accurate and useful for half dollars.

Edge Reeding and Collars

Often overlooked, the edge of a coin contains reeds. Reeds were implanted with a collar, the coin's third die, and were meant to deter nefarious efforts to clandestinely remove silver from the edges of coins for profit. All non-error Liberty Seated Half Dollars have reeds.

Reeded collars were heavy steel plates with a bore the size of the minted coin. A blank planchet was placed in the bore and reeds were raised on the edge of the coin at the same time the coin's designs were raised by the obverse and reverse dies.

Reeding on a coin was not standardized. Collars were obtained by the Branch Mints through various efforts including in-house manufacturing, local procurement, and from the Philadelphia Mint and these practices resulted in variances in numbers and widths of reeds on half dollar edges.

Reed counts are useful information in counterfeit detection, authentication, and determining die emission sequences.


The following table itemizes reed counts for New Orleans Liberty Seated half dollars dated 1853-O WA to 1861-O.

Edge Reed Count									
<i>Date</i>	140	141	142	143	144	145	146	147	148
1853-O Arrows and Rays		√		√					
1854-O Arrows		√		√					√
1855-O Arrows		√		√					√
1856-O	√	√		√					√
1857-O	√								
1858-O	√								
1859-O	√								
1860-O	√								
1861-O	√								

New Orleans Branch Mint 1853-O WA to 1861-O Half Dollar Mintmark Size

The New Orleans Branch Mint had working dies with one mintmark size: large. Mintmarks were added to the working dies at Philadelphia most likely just before shipment to the Branch Mints; in this situation, all dies for one specific shipment were probably lined up and the mintmark emplaced by the same punch one after the other. A single punch with the letter “O” was hammered by hand into the working die(s) to form the mintmark we see today; variances in the exact placement of the letter exists from die to die and account for the slight differences in placement. In some instances, multiple blows from a hammer were necessary to emplace the mintmark with a proper depth and appearance. If the alignment of the punch varied between blows, repunched mintmarks consequently appeared.

All half dollars of this period have the same size mintmark, a large O. Few noticeable variations in the placement of the mintmark are observed throughout these late date New Orleans half dollars. Generally, they are centered below the crotch formed by the olive branch and the lower arrow feathers.

<i>Mintmark Size</i>	Large
<i>Height of mintmark</i>	.053 - .057”
<i>Example photo</i>	
1853-O Arrows and Rays	√
1854-O Arrows	√
1855-O Arrows	√
1856-O	√
1857-O	√
1858-O	√
1859-O	√
1860-O	√
1861-O	√

Counting Reeds

Periodically I've been asked that if determining a reed count is so important, then how do you easily count reeds. Randy Wiley and I have successfully been using a simple technique for years; with it, I have counted reeds on well over 2,000 Liberty Seated Half dollars and many other smaller denominations.

Counting reeds is actually quite simple if you understand the technique and have a few simple tools. Simply remove the reflector from an inexpensive flashlight, place the coin into the reflector under your stereo microscope, and slowly rotate the reflector with the coin while viewing the in-focus edge (i.e., reeds) through the microscope. Scratch a radial line in the reflector as a starting point or start at an obvious

flaw (all coins have them) and count (aloud is best so that you can ignore distractions) the reeds using the reticule of your scope to keep track of your position; stop for breathers at easily referenced places (e.g., nicks, lint, cracks in the collar, etc.). Continue until you get to the starting reed. You may have to initially adjust the coin in the reflector to keep it in focus for the entire counting session. With practice, you can easily and accurately count the reeds on a coin in about 2-3 minutes. Be careful with the reflector surfaces; they scratch easily and you may end up replacing it more often than you like. One more thing, you can also photograph the edge of the coin with this technique.

Emission Sequence

The die marriages of all dates are listed in ascending WB-X / W-X order per an estimated die emission sequence order; the first number is the first minted die marriage to the highest number being the last (usually the transitional die with the preceding or subsequent years). Factors considered to estimate this die emission sequence include die wear, die abrasions, die defects, collar groupings, and use of mintmark sizes.

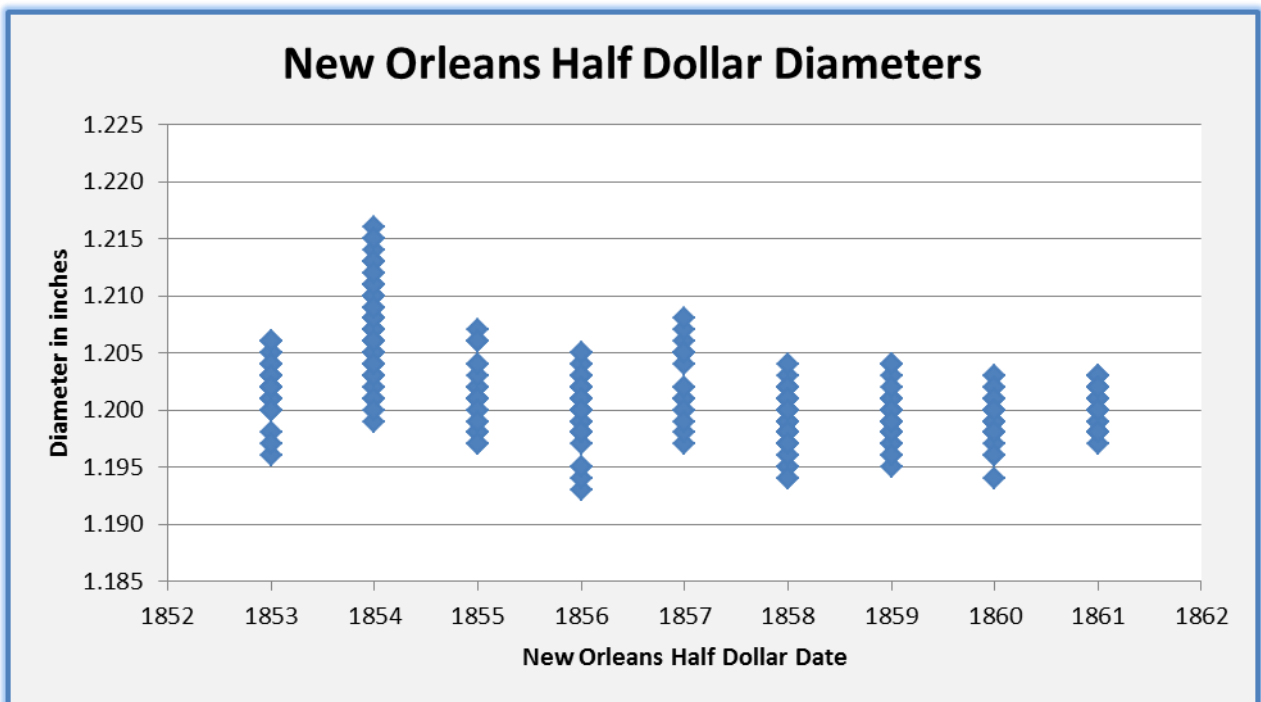
New Orleans Half Dollar Diameters

The standard size of a half dollar diameter has been since 1839, and still is, 1.205 inches. I have measured the diameter of over 2,000 half dollars and few have that exact diameter. Since the diameter of a coin is dictated by the diameter of the opening in the collar and collars were procured through various methods (local, procured from the Philadelphia Mint, manufactured in-house), there is no wonder that slight variations in half dollar sizes can be found.

The following diagram depicts summary information for the diameters of nearly 400 late date Liberty Seated Half Dollars struck at the New Orleans Branch Mint. As you can see, values vary considerably about the standard size

with 1854-O have the largest range. The smallest diameter was in 1856 with the largest in 1854. 1861-O appears to have the smallest range centered on the standard.

1854-O may be a special case. In measuring Mike Lloyd's reference collection of 1854-O half dollars, I determined that most of his halves were slightly out of round. It was not atypical for individual half dollars to have a .018" difference in measurements on two perpendicular axes. The likely cause of this was poorly prepared collars. From studying the data below, these collars may not have been used in other years.



Rarity Ratings

Included with the description of each die marriage is an estimated rarity rating. These ratings are based on the Sheldon Rarity Scale as depicted in the following table. All rarity estimates are my own and are based on my observations and, in some instances, educated guesses. Few varieties are rated R-6 or above, few are rated R-2, and none are R-1. I will be the first to admit that it will literally take years to establish more accurate rarity ratings for each variety but I believe most will range as listed in the R-5 to R-3 range.

The *rarity rating* I assigned to each die marriage is a single number, which *includes coins of all grades*. In my experience, listing by-grade rarity values can lead to

misrepresenting the rarity of a die marriage by misquoting grade rarities rather than overall rarities. Naturally, some grades are rarer than others, specifically uncirculated coins, but I will leave that study and accompanying condition census listings to others.

Care must be exercised when trying to relate a die marriage's worth to rarity. There is no direct correlation between value and rarity and trying to correlate the two would produce misleading results. Some die marriages are rare but not noteworthy enough to gain the prominence enjoyed by some more popular rarities. Rarity is only one factor in determining market value.

Rarity Rating	Estimated number of known pieces
R-8	1 - 3
R-7	4 - 12
R-6	13 - 30
R-5	31 - 75
R-4	76 - 200
R-3	201 - 500
R-2	501 - 1,250
R-1	1,251 or more

If you sum the upper estimates of the known pieces for all the varieties listed in this Register, the total population of New Orleans Liberty Seated half dollars from 1853-O WA to 1861-O is approximately 110,000. This number equates to less than ½ of 1% of the original mintage, which is within the generally acceptable attrition estimates.

Miscellaneous Information

Device outlining. “Halos” can often be found around the stars, digits in the date, arrowheads, and often around the central devices (see photo at right). Sometimes unofficially called “Longacre doubling,” a term coined by J.T. Stanton and inappropriately applied by others to



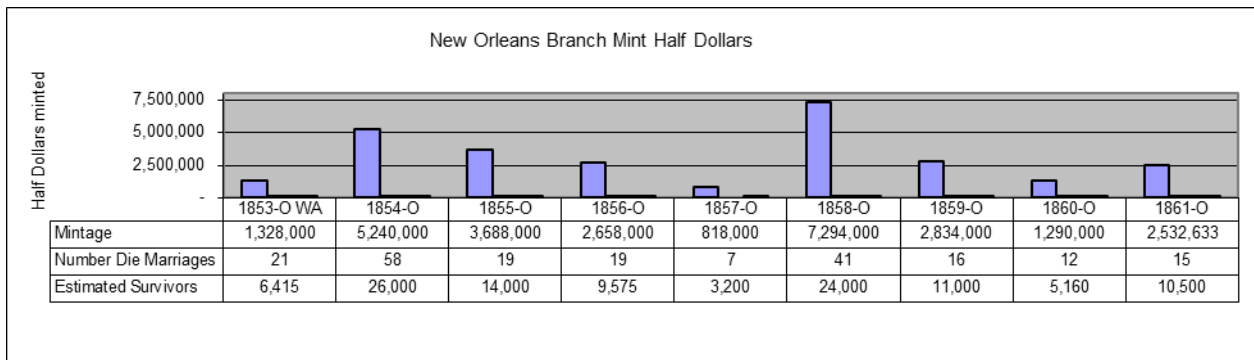
Liberty Seated coinage designed by Christian Gobrecht, it is the doubling often seen on coins designed by James B. Longacre. This doubling is a secondary image of the design appearing on all sides of a design element. Although various theories abound as to what caused this doubling, this doubling is commonly found on half dollars of many dates and is not and should not be confused with doubled dies and repunched dates. I believe this doubling was caused when the temporary master die was heavily impressed with all the design elements such that a halo became part of the temporary master die. Consequently, these halos transferred to the working hub, subsequent working dies, and finally the half dollars themselves. Many early die state 1853-O, 1854-O, and 1855-O half dollars regardless of die marriage can be found with this halo characteristic and I do not discuss this doubling characteristic with each die marriage.

Brief history of the New Orleans Branch Mint. The New Orleans, Louisiana Branch Mint was authorized by an Act of the U.S. Congress on March 3, 1835 to accommodate the influx of the metal from ore mines recently opened in the southern states.

The cornerstone for the New Orleans Branch Mint building was laid in September 1835 on the site of the old demolished Fort St. Charles, one of the five forts surrounding the city. Coining operations commenced at this facility on March 8, 1838 and the first coinage consisted of dimes. Coinage continued with various interruptions under three flags until 1909 when it was used for other purposes.

The Federal Government deeded the building to the state of Louisiana in 1966 upon which it was renovated and now serves as the Louisiana State Museum.

Major U.S. Government actions affecting early New Orleans Coinage¹. To further understand New Orleans half dollar coinage, a macro examination of the variations in half dollar mintages is necessary. The figure below depicts the mintages, the number of die marriages found, and my estimate of the number still extant for the New Orleans half dollars from 1853-O WA to 1861-O.



¹ For details of this and other monetary history, see Carothers, Neil. *Fractional Money*. New York: John Wiley & Sons, 1930.

As shown in the graph, the half dollar mintages varied dramatically from year to year ranging from 0.8 million to 7.3 million. Various economic developments and, interestingly, Mint procedures influenced these mintage figures.

Disappearance of silver coinage. During most of the 1840's and for the first time in the nation's history, the U.S. had a fairly ample supply of circulating coinage. This situation abruptly changed with the discovery of gold in California in 1848. Gold poured into the nation's economy thereby upsetting the gold to silver market ratio. By 1851, the rising value of silver rose to a point where a silver coin's silver content was worth more than the face value (e.g., two silver half dollars were worth \$1.03½ in gold). Consequently, large numbers of U.S. silver coins, mainly quarters and half dollars, were pulled from circulation, hoarded, melted, and/or exported for profit. Coinage with the exception of heavily worn U.S. and Mexican coins, 3-cent pieces, and gold dollars essentially did not circulate. With Congress' inactivity to resolve the worsening chaotic retail trade conditions, the U.S. Mints, which were operating at a net loss in producing silver coins, reduced their silver coinage output because it cost more than their face value to produce and, if released, they quickly disappeared from commerce. Consequently, for a few years beginning in 1851, the half dollar mintage was miniscule. This situation changed for the better in 1853.

Mint Act of 1853. After almost two years of Congressional debate and delay, the President signed into law the Mint Act on February 21, 1853, effective with amendments on April 1, 1853. Among other provisions, the planchet weights of silver half dimes through half dollars were reduced by almost 7 percent thereby making two half dollars worth about 97¢. Although in hindsight this reduction percentage was far too small (only a 3 percent margin), the resulting coinage output especially of quarters and half dollars was enough to flood commerce with silver coinage in a little more than six months. There was an ample supply of circulating decimal denominations coinage. The circulating coinage shortfall was temporarily eased for about eight years until the outbreak of the American Civil War.

Director of the Mint James Ross Snowden's silver purchases. For various reasons including pressure from business owners who wanted an ample supply of silver coinage and the lack of a redemption clause in the Mint Act of 1853 (whereby, legal tender could not be used to pay for taxes or government debt), Director Snowden instituted an aggressive silver bullion purchase program. He announced that the Mint would purchase all silver bullion at a set price (often much higher than its value) in exchange for gold or silver coinage. This program was very successful; purchased silver bullion was immediately converted into coinage and essentially forced onto the public. Vast quantities of newly minted silver coinage flooded commerce and, in major Eastern U.S. cities, the amount of silver coinage became a nuisance and was sometimes discounted. In late 1853, the minting of half dollars was suspended because there were too many. By mid-1854, there was too much silver in circulation. This silver purchase program continued through the 1850's and accounts for the high half dollar mintage figures.

Coinage Act of 1857. This act, among other provisions, forbade the use of foreign coins as legal tender and required a two-year redemption of foreign coinage from the nation's commerce (this was extended for another two years in 1859). Specifically, at a small profit to the redeemer, mostly Spanish and Mexican silver (estimated by Director Snowden to be \$3 million worth but likely much higher) was redeemed for U.S. decimal gold, silver, or copper coinage. This effectively removed the non-decimal fractional coinage from the American commerce by 1860 and likely influenced the very high mintage of 1858 half dollars.

How To Attribute Your Liberty Seated Half Dollar

Armed with the introductory and the die marriage information contained in this Register, most New Orleans Branch Mint Liberty Seated Halves can be readily attributed to a correct variety nomenclature and WB- number. Date and mintmark close up images are displayed at top of each die marriage page because they are position dependent. Additional die diagnostic information and images are contained for the obverse and reverse dies.

At a coin show, you will most likely be able to scrutinize a prospective purchase to determine a correct die marriage. Additionally, with advances in the internet, high speed data downloads, and digital imaging technology, many auction house depict excellent quality images on their website for upcoming auctions.

With a half dollar of an unknown variety in hand, proceed through the following steps.

Obtain or estimate the date grid location. Compare this measurement to the date grid table contained for the coin's date. This measurement will provide a few obverse die possibilities and you can then check the mintmark position.

Match the mintmark position of your coin to the table contained for each date.

Finally, refer your possibilities to each variety description and check the die diagnostics for your coin against those listed for each die marriage.

With a close-up image of half dollar of an unknown variety on the computer screen (e.g., from an auction website), proceed through the following steps.

Estimate the date position of the 1 by using a straight edge such as a piece of page.

Compare this measurement to the date grid table contained for the coin's date. This measurement will provide a few obverse die possibilities and you can then check the mintmark position.

Match the mintmark position of your coin to the table contained for each date.

Finally, refer your possibilities to each variety description and check the die diagnostics for your coin against those listed for each die marriage.

Both techniques work well. I have personally tested attribution techniques with a coin either in hand or over the internet with the digital archives of a few well known auctions houses. In over 90 per cent of the coins or images checked, I was able to attribute the variety for a high grade (VF+) Liberty Seated Half Dollar. I hope you have similar successes.

**The New Orleans Branch Mint
Liberty Seated Half Dollar
Die Marriages
1853-O WA to 1861-O**

1853-O Arrows and Rays

This date is a unique type in the Liberty Seated half dollar series. 1853, including those from the Philadelphia and New Orleans Branch Mints, is the only date in the entire series with arrowheads on each side of the date and outstretching rays on the reverse die design. Hence, it is “supposedly” in high demand for type sets and therefore appropriately priced at a premium. Although much scarcer than its Philadelphia Mint date counterpart, both half dollars are similarly priced. Note my cynicism for the type set demand; in all my years of collecting and researching this series, I have met very few “type set” half dollar collectors and wonder if the hype over the arrowheads and rays is not much more than that, commercial hype.

Twenty-one die marriages are known as depicted in the tables below.

Mintage	Number of Dies	Number of Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
1,328,000	Requested		-	-	2 (141, 143)
	Shipped	-	17	11	
	Known	21	14	9	

Note: the die marriages and known dies in this table do not include the 1853-O No Arrows and Rays half dollar.

Mint Act of 1853. With this law, the planchet weights of silver half dimes through half dollars were reduced by almost 7 percent thereby making two half dollars worth about 97¢. The resulting coinage output especially of quarters and half dollars was enough to flood commerce with silver coinage in a little more than six months. The circulating coinage shortfall was temporarily eased for about eight years until the outbreak of the American Civil War. To signify this half dollar weight change from 206.25 grains to 192 grains, arrowheads were added at each side of the digits of the date and outstretching rays from the center of the reverse were added for this year only. This is the only date in the entire Liberty Seated half dollar series with rays on the reverse die design.

Date position. There is no variation in the placement of the date and arrowheads for this date (see photo at right). To signify a planchet weight reduction, I believe the date and arrowheads were punched into a temporary master die to ensure the arrowheads were on all subsequent working dies. Accordingly, the date position is L5, .010” and should be the same (within slight die state variations) for all 1853-O Arrows and Rays half dollars.



Device outlining. “Halos” can often be found around the stars, digits in the date, arrowheads, and often around the central devices (see photo below). Sometimes unofficially called “Longacre doubling,” a term coined by

J.T. Stanton and inappropriately applied by others to Liberty Seated coinage designed by Christian Gobrecht, it is the doubling often seen on coins designed by James B.



Longacre. This doubling is a secondary image of the design appearing on all sides of a design element. Although various theories abound as to what caused this doubling, this doubling is commonly found on half dollars of this date and is not and should not be confused with doubled dies and repunched dates. I believe this doubling was caused when the temporary master die was heavily impressed with all the design elements such that a halo became part of the temporary master die. Consequently, these halos transferred to the working hub, subsequent working dies, and finally the half dollars themselves. Most early die state 1853-Os regardless of die marriage can be found with this halo characteristic and I do not discuss this doubling characteristic with each die marriage.

No drapery die state. With the exception of 1839 where it was a purposeful design change, nearly every date in the Liberty half dollar series has at least one die with a die state without drapery from the elbow. 1853-O is no exception; a few 1853-O obverses exist without drapery below Liberty’s right elbow (see WB-12, WB-13, WB-14, and WB-16). The difference with 1853-O Arrows and Rays is that I am not sure these die marriages without drapery exist in a die state with drapery. It is entirely likely the obverse dies without drapery rusted, were polished down to remove the rust, and a reduced drapery was the unintentional consequence. Additional study is needed for this characteristic.

Long and short rays. Some reverse dies have long rays that extend well under into the interior of the reverse design while other dies have much shorter rays (see photos below). I believe this was not an intentional design change but the shorter rays were merely a result of overzealous die preparation and polishing before initial use and later resulted from die wear and polishing (e.g., reverse E on WB-13 is known with both long and short rays). No price premium should be assigned to either; it is merely an interesting feature.



1853-O Long rays reverse



1853-O Short rays reverse

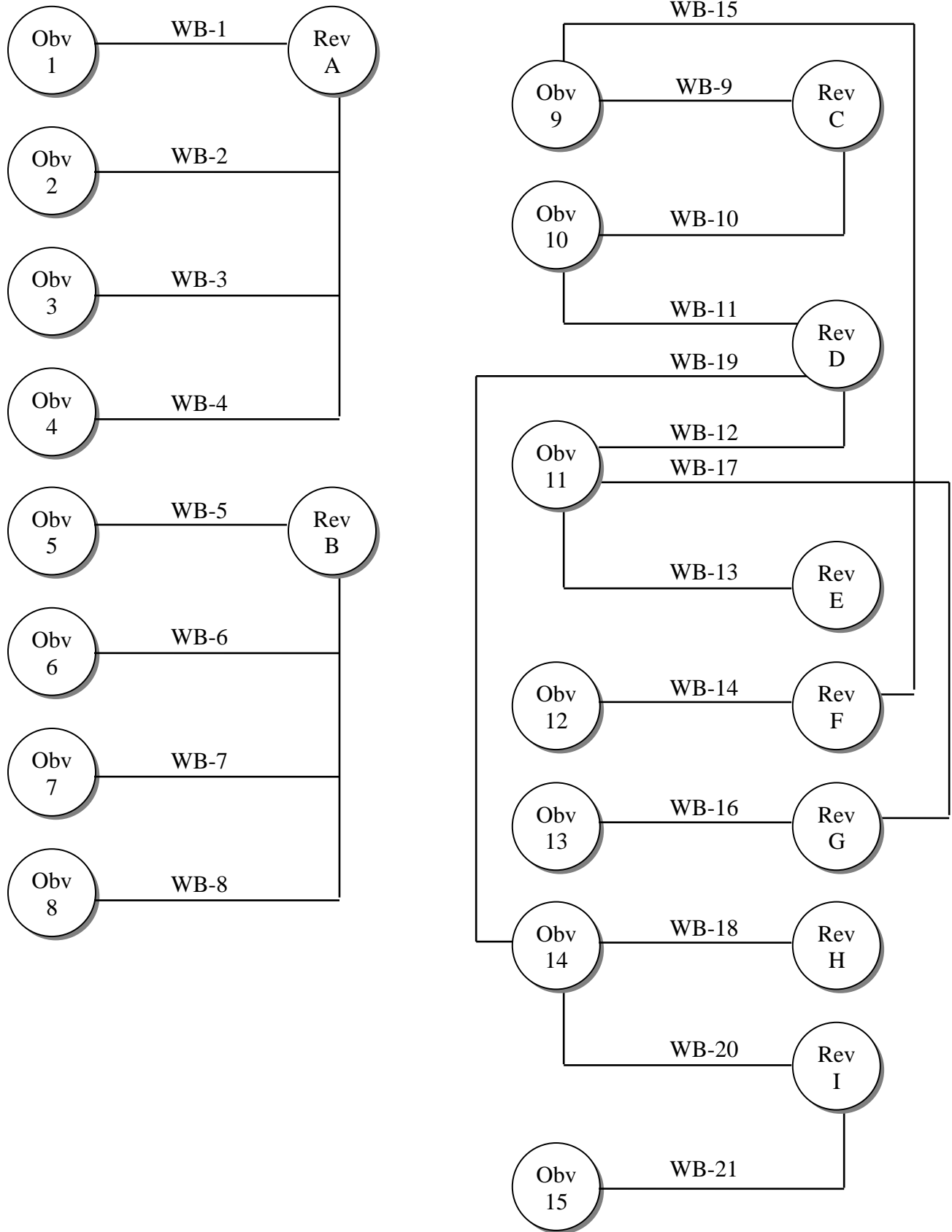
Ray, no ray inside the mintmark. Some reverse dies have a vertical ray inside the mintmark while others do not and have a “clean” interior mintmark. (see photos below). As with the long/short rays, I believe this was not an intentional design change but the “clean” mintmarks were merely a result of overzealous die preparation and polishing before initial use and later resulted from die wear and polishing. No price premium should be assigned to either; it is merely an interesting feature.



1853-O Arrows and Rays Half Dollar Mintmark Positions

Reverse A, WB-1, 2, 3, 4	Reverse B, WB-5, 6, 7, 8	Reverse C, WB-9, 10
Reverse D, WB-11, 12, 19	Reverse E, WB-13	Reverse F, WB-14, 15
Reverse G, WB-16, 17	Reverse H, WB-18	Reverse I, WB-20, 21

1853-O Arrows and Rays Half Dollar Die Linkage Diagram



1853-O Obverse and Reverse die identification keys		Lumps in Rays	AMERICAI	Lumps by (H)AL(F)	Weak top mintmark	Long thin die lines in the rays	Die lines in the drapery below Liberty's elbow	Scattered lumps between olive leaves	Radial die crack from the dentil at K-4 thru the upper arrowhead	Radial die crack from dentil to (AM)E(RICA)
		A	B	C	D	E	F	G	H	I
Tine on 1	1	WB-1								
Tine on 1	2	WB-2								
Arching die crack from the cap thru stars 9-13	3	WB-3								
Tine on 1	4	WB-4								
Die line below Liberty's foot	5		WB-5							
Die crack from K-10 thru star 5 to Liberty	6		WB-6							
Die crack thru star 12	7		WB-7							
Tine on 1	8		WB-8							
File lines in drapery	9			WB-9			WB-15			
Lumps on Liberty's right calf	10			WB-10	WB-11					
No discernible diagnostics	11				WB-12	WB-13		WB-17		
Die line in Liberty's gown	12						WB-14			
Multiple lumps on Liberty	13							WB-16		
File lines in drapery	14				WB-19				WB-18	WB-20
Radial die crack between stars 11-12	15									WB-21

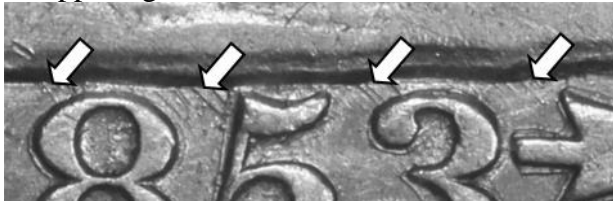
1853-O

WB-1, Arrows and Rays

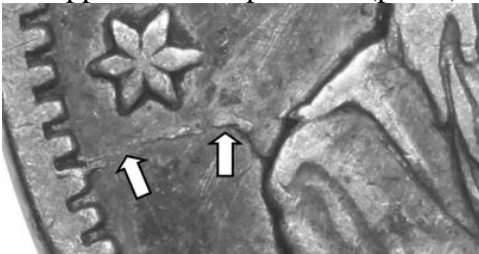
Obverse 1



- Date (photo); “spiked 1” with tine to the upper right of the 1



- EDS: diagonal (NE to SW) die lines from the rock support to the top of date (photo)



- LDS: prominent die crack from rock in the field below star 1 to rim (photo); others including from Liberty’s instep into field

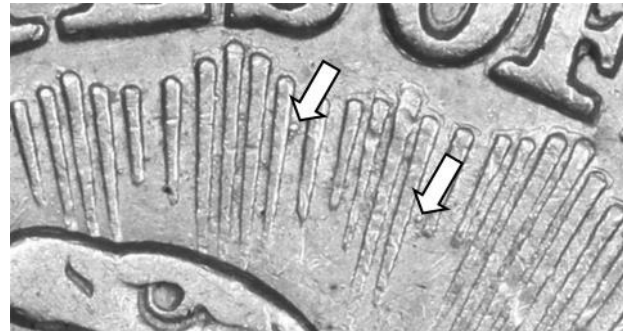


- MDS-LDS: radial die crack from dentil thru the upper tips of star 11 into field (photo)
- Note heavily outlined stars and date

Reverse A



- Large O mintmark (photo), no ray inside the mintmark



- Two small lumps between the rays above the eagle’s head (photo)
- Clash in shield’s lower right and beneath the eagle’s right wing

This is the only use of this obverse die and first use of this reverse die. Sometimes identified as a doubled obverse die variety, I believe the obverse is not a doubled die but has Longacre doubling.

Date grid: L5, .010”	143 reeds	Typical diameter = 1.196”	Rarity - 3
Dravery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: VF30 LDS: XF40		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-101 and GJ CV #1, page 303.		Version 1.325	

1853-O
WB-1, Arrows and Rays



Obverse 1



Reverse A

1853-O WB-2, Arrows and Rays

Obverse 2



- Date with “spiked 1;” tine to the upper right of the 1 (photos above and below)



- Die lines thru date (photo)



- Radial die crack from between dentils at K-3 to star 12 into field (photo). LDS die crack connects stars 11-13 to Liberty’s instep.

Reverse A



- Large O mintmark (photo)



- Two small lumps between the rays above the eagle’s head (photo)



- Strong die crack from the upper left serif of the UNIT(ED) to the dentil at left (photo). Other weaker die cracks along the top of letters (STA)TES
- Clash in shield’s lower right and beneath the eagle’s right wing

This is the only use of this obverse die and second use of this reverse die.

Date grid: L5, .010”	Unknown reeds	Typical diameter = Unknown”	Rarity - 4
Drapery die state: Full	Foot support: Full to None	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS MS64		Coin from the Gene Gardner Collection Photos provided by Gene Gardner	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-2, Arrows and Rays



Obverse 2



Reverse A

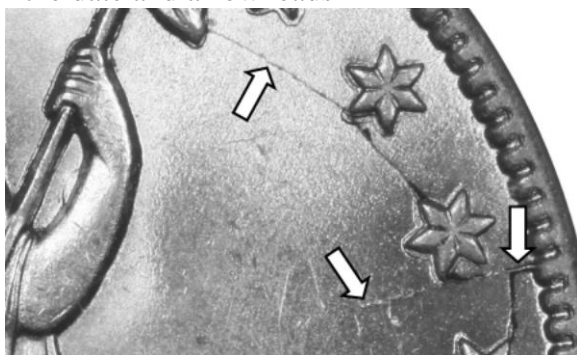
1853-O

WB-3, Arrows and Rays

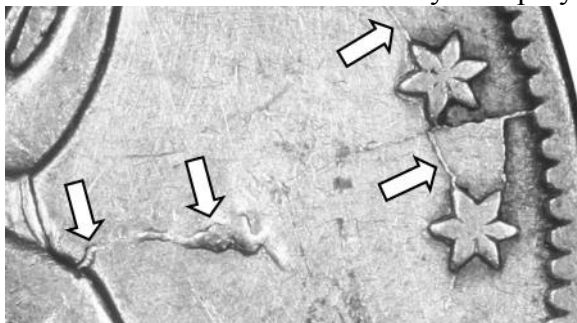
Obverse 3



- Date (photo) with die crack along the base of the date and arrowheads



- Arching die crack from the cap thru stars 9-13 (photo); radial die crack from dentil along star 11 into field towards Liberty's drapery

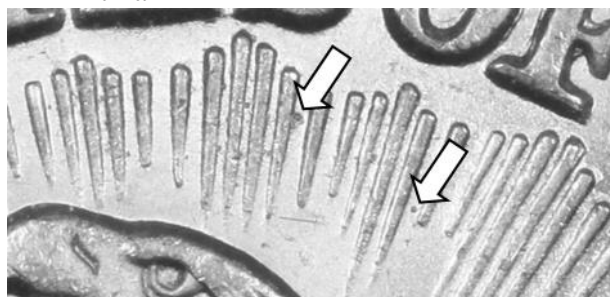


- Rare VLDS: internal cud in the field to the right of the Liberty's drapery and another cud forming between stars 11-12 (photo)
- LDS: weak dentils and weak foot support

Reverse A



- Large O mintmark (photo), no ray inside the mintmark



- Two small lumps between the rays above the eagle's head (photo)



- All examples seen: die cracks along the top on UNITE(D) to the dentils on each end (photo) and along the top of letters (STA)TES
- Clash in shield's lower right and beneath the eagle's right wing

This is the first use of this obverse die and third use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.207"	EDS to LDS Rarity - 3 VLDS (cud) Rarity - 6
Drapery die state: Full	Foot support: Varies	Dentils: Obverse - Varies; Reverse - Full	
Grade of coin depicted: MDS: PCGS MS64 VLDS: XF45		MDS coin from the Randy Wiley Collection VLDS coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-3, Arrows and Rays



Obverse 3 (enhanced die cracks in photo at right)



Reverse A (enhanced die cracks in photo at right)

1853-O

WB-4, Arrows and Rays

Obverse 4

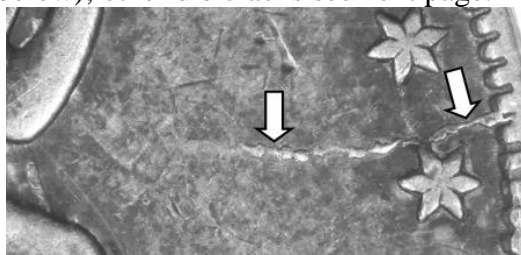
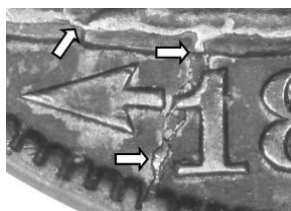


- Date (photo); “spiked 1” with tine to the upper right of the 1



- EDS-MDS: die lines between cap and star 9 (photo) and diagonal (NE to SW) die lines from the rock support to the top of date similar to WB-1 (photo far above)

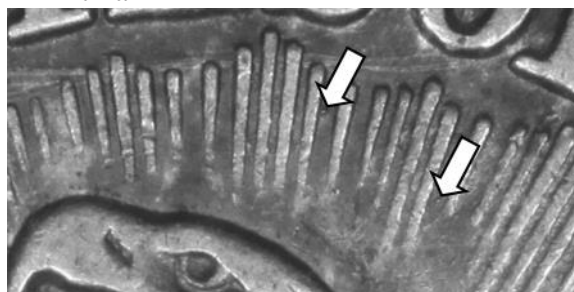
- All die states: radial die crack from between dentils below the 1(853) to rock support (photo at right) and another radial die crack from dentil to star 12 into field (photo below); other die cracks see next page.



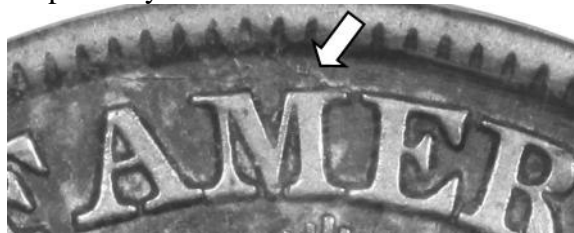
Reverse A



- Large O mintmark (photo), no ray inside the mintmark



- Two small lumps between the rays above the eagle’s head (photo). Note horizontal die clash lines from obverse rock support along tips of rays



- Die cracks along the top on UNITE(D) to the dentils on each end and along the top of letters (STA)TES; another from (A)M(ERICA) to the dentils (photo)
- Clash in shield’s lower right, beneath the eagle’s right wing, and multiple clashes along the top edges of the rays

This is the only use of this obverse die and fourth use of this reverse die.

Date grid: L5, .010”	143 reeds	Typical diameter = 1.207”	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS - AU50 LDS - PCGS XF40		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-4, Arrows and Rays



Obverse 4 (enhanced die cracks in photo at right)



Reverse A (enhanced die cracks in photo at right)

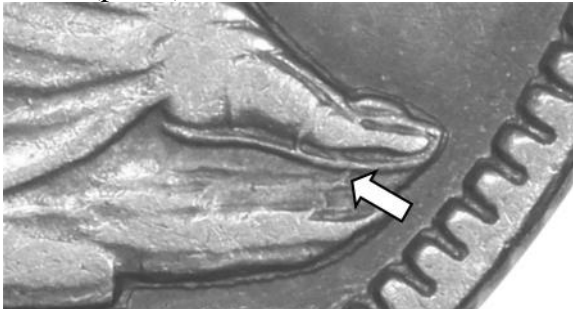
1853-O

WB-5, Arrows and Rays, AMERICAI

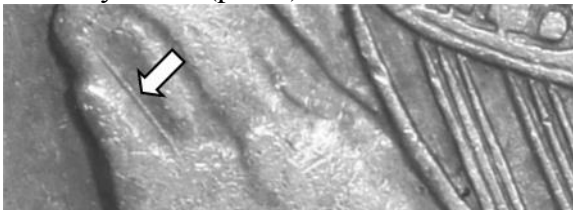
Obverse 5



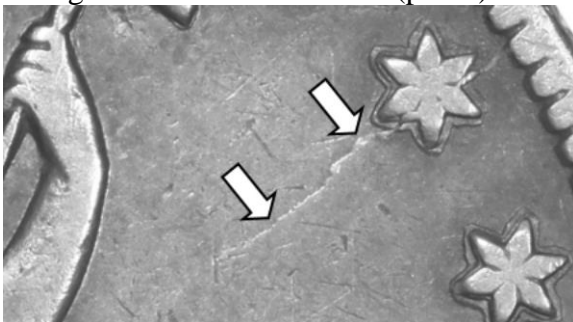
- Date (photo)



- Die line in the rock support below the ball of Liberty's foot (photo)



- Diagonal die line in the rock (photo)



- All examples seen: radial die crack from the dentil thru star 10 into field towards the drapery below Liberty's elbow (photo)
- Die crack thru stars 3-5

Reverse B



- Large O mintmark (photo), no ray inside the mintmark



- All die states seen: radial die crack along the right side of the (AMERIC)A; hence, the "AMERICAI" nickname (photo). I have not seen this die without this die crack.

This is the only use of this obverse die and first use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O

WB-5, Arrows and Rays, AMERICA I



Obverse 5 (enhanced die cracks in photo at right)



Reverse B (enhanced die cracks in photo at right)

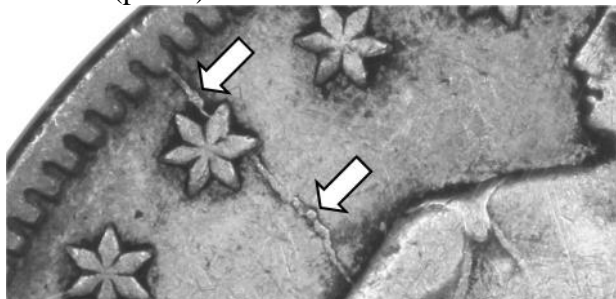
1853-O

WB-6, Arrows and Rays, AMERICAI

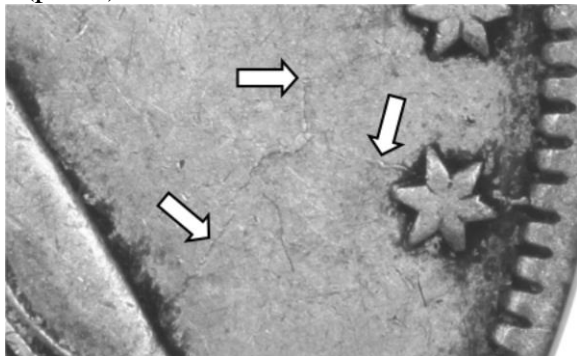
Obverse 6



- Date (photo)



- All examples seen: die crack from the dentil at K-10 thru star 5 to Liberty's left shoulder (photo)



- All examples seen: die crack from the dentil at K-4 thru star 13 into a "Y" both north and south to Liberty's right shin (photo)

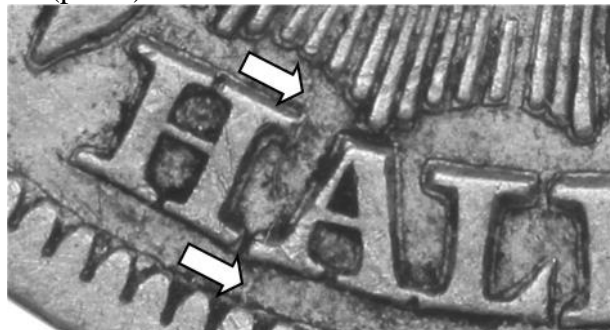
Reverse B



- Large O mintmark (photo), no ray inside the mintmark



- All examples: radial die crack along the right side of the (AMERIC)A (hence, the "AMERICAI" nickname) now into the rays (photo)



- Radial die crack from the dentil at K-7 between HA(LF) into the rays (photo); other die cracks along the tips of the upper rays and thru parts of the legend
- Clash in shield's lower right

This is the only use of this obverse die and second use of this reverse die.

Date grid: L5, .010"	141 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: NGC XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #68.		Version 1.325	

1853-O

WB-6, Arrows and Rays, AMERICA I



Obverse 6 (enhanced die cracks in photo at right)



Reverse B (enhanced die cracks in photo at right)

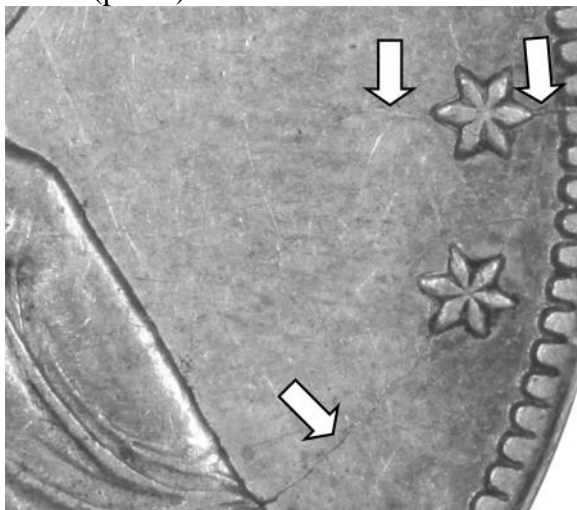
1853-O

WB-7, Arrows and Rays, AMERICAI

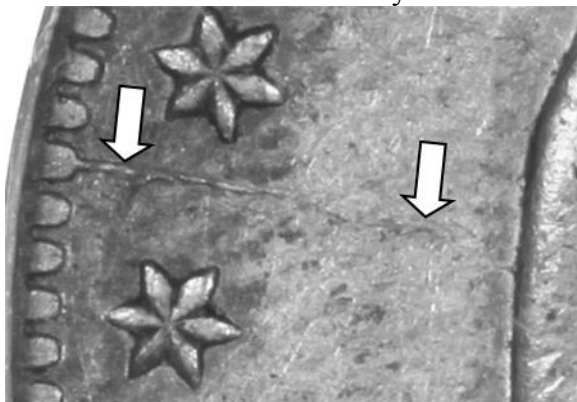
Obverse 7



- Date (photo)



- Radial die crack from the dentil thru star 12 into field; another from the arch of the foot to star 13 (photo); other die cracks from the rock to star 1 and thru Liberty's head



- LDS: radial die crack from dentil between stars 2-3 into field to Liberty's arm (photo)

Reverse B



- Large O mintmark (photo), no ray inside the mintmark



- All die states: radial die crack along the right side of the (AMERIC)A (hence, the "AMERICAI" nickname) into the rays and arrowheads (photo)



- Other die cracks thru the denomination and olive leaves (photo), legend, and horizontally in the rays above the eagle's head
- Clash in shield's lower right

This is the only use of this obverse die and third use of this reverse die.

Date grid: L5, .010"	Unknown reeds	Typical diameter = Unknown"	Rarity - 3
Dravery die state: Weak	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS XF45		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

1853-O

WB-7, Arrows and Rays, AMERICA I



Obverse 7 (enhanced die cracks in photo at right)



Reverse B (enhanced die cracks in photo at right)

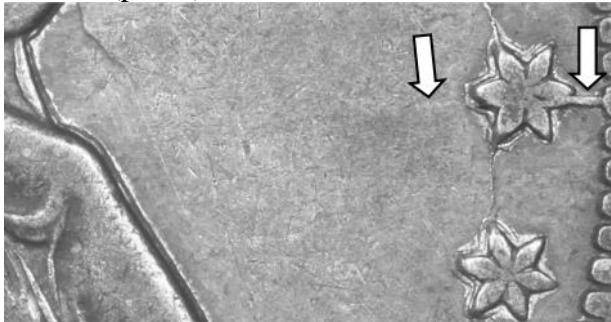
1853-O

WB-8, Arrows and Rays, AMERICAI

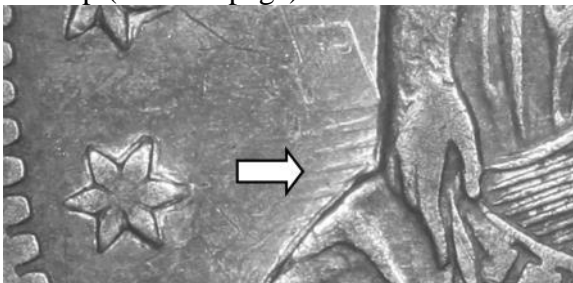
Obverse 8



- Date (photo)



- All examples seen: radial die crack from dentil at K-3 thru star 12 into field (photo); another arching die crack from Liberty's head thru cap thru stars 9-13 to Liberty's instep (see next page)

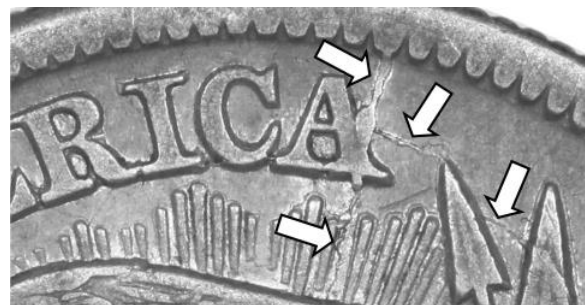


- LDS: clash from reverse rays in the field at Liberty's left hand (photo); another clash at Liberty's right elbow

Reverse B



- Large O mintmark (photo), no ray inside the mintmark



- All examples: radial die crack with small cud along the right side of the (AMERIC)A (hence, the "AMERICAI" nickname) into the rays and arrowheads (photo)



- Other die cracks thru the denomination and olive leaves (photo), legend, and horizontally in the rays above the eagle's head
- Clash in shield's lower right

This is the only use of this obverse die and fourth use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.203"	Rarity - 3
Dravery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O

WB-8, Arrows and Rays, AMERICA I



Obverse 8 (enhanced die cracks in photo at right)



Reverse B (enhanced die cracks in photo at right)

1853-O

WB-9, Arrows and Rays

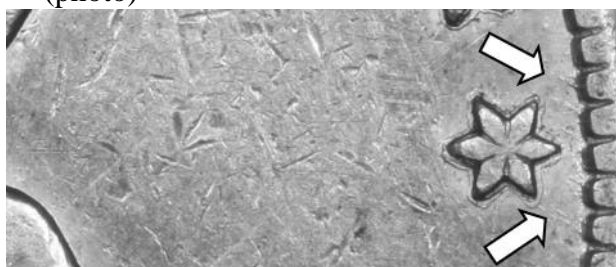
Obverse 9



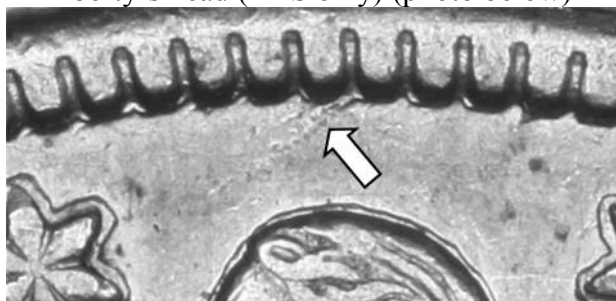
- Date (photo)



- Horizontal die line along the top of 18(54) (photo)



- Short scattered die lines from the dentils near star 12 (photo above) and others above Liberty's head (EDS only) (photo below)

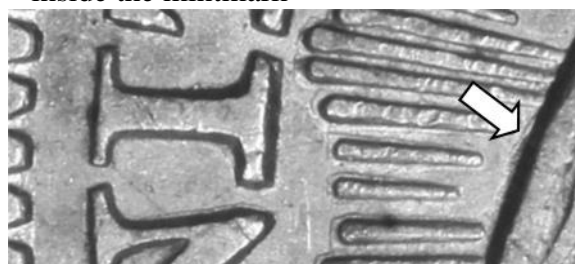


- Arching lines of raised lumps from Liberty's head thru cap thru stars 9-13 to Liberty's instep 8 (see next page) similar to WB-8

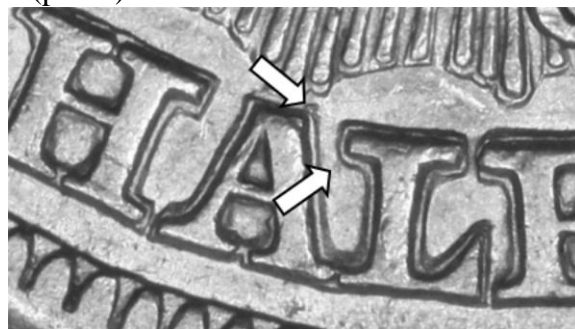
Reverse C



- Large O mintmark (photo), a single ray inside the mintmark



- Die line on the edge of the eagle's left wing (photo)



- Two small lumps beside the (H)A(LF) (photo)

This is the first use of this obverse die and first use of this reverse die.

Date grid: L5, .010"	141 reeds	Typical diameter = 1.204"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-9, Arrows and Rays



Obverse 9 (enhanced die cracks in photo at right)



Reverse C

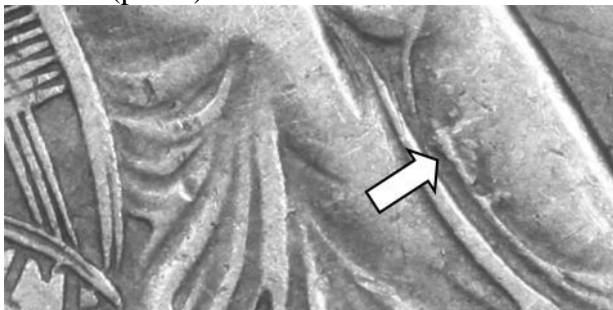
1853-O

WB-10, Arrows and Rays

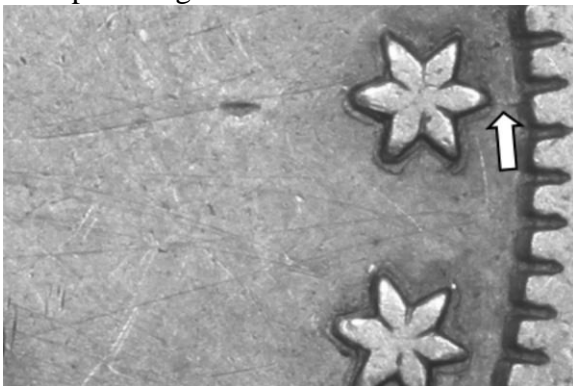
Obverse 10



- Date (photo)



- Lumps on Liberty's right calf (photo); other lumps throughout skirt

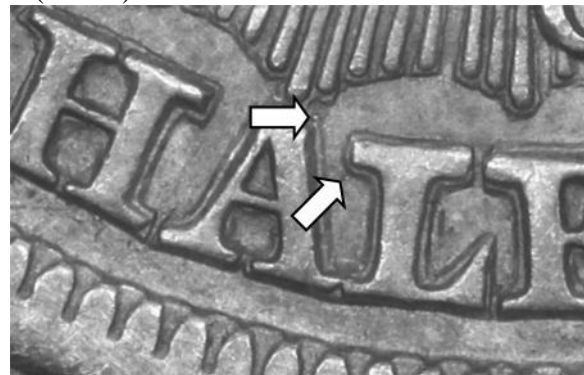


- LDS: radial die crack from dentil to star 12 (photo) and another die crack diagonally thru the ribbon and rock support

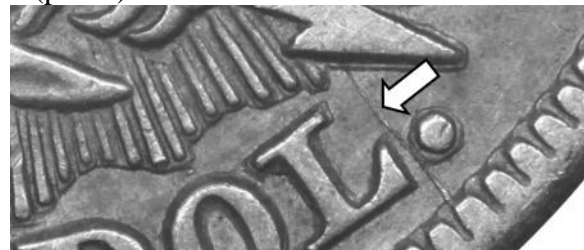
Reverse C



- Large O mintmark (photo), a single ray inside the mintmark
- The die line on the edge of the eagle's left wing visible on the previous use of this die (WB-9) is not seen here.



- Two small lumps beside the (H)A(LF) (photo)



- All examples seen: radial die crack from dentil between (DO)L., to the lowest arrowhead (photo)
- High grade coins: rim cud at K-9 to K-11

This is the first use of this obverse die and second use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.202"	Rarity - 3
Dravery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-10, Arrows and Rays



Obverse 10



Reverse C (enhanced die cracks in photo at right)

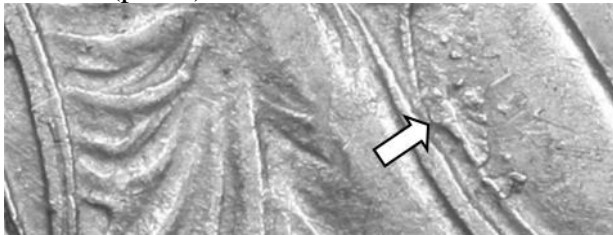
1853-O

WB-11, Arrows and Rays

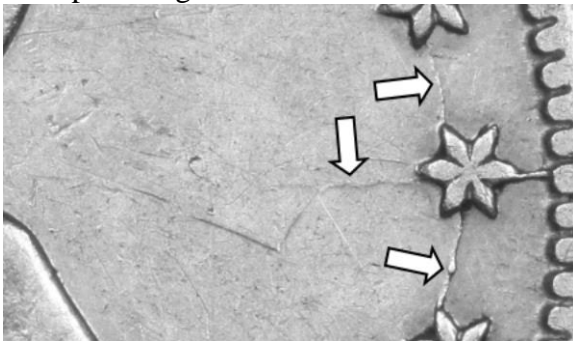
Obverse 10



- Date (photo)



- Lumps on Liberty's right calf (photo); other lumps throughout skirt

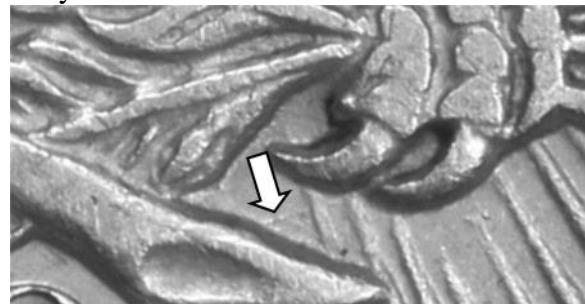


- LDS: radial die crack from dentil thru star 12 into right field (photo); another arching die crack thru stars 10-13 to Liberty's instep, another diagonally thru the rock support, ribbon, and rock to star 1

Reverse D



- Large O mintmark (photo), thin top O, no ray inside the mintmark



- Horizontal die line between the olive stem and eagle's claws (photo)
- LDS: die crack along arrowhead tips
- Weak top of vertical shield lines A1-3ll coins with this reverse have very short rays below (STAT)ES OF A(MERICA).

This is the second use of this obverse die and first use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O

WB-11, Arrows and Rays



Obverse 10 (enhanced die cracks in photo at right)



Reverse D

1853-O

WB-12, Arrows and Rays

Obverse 11

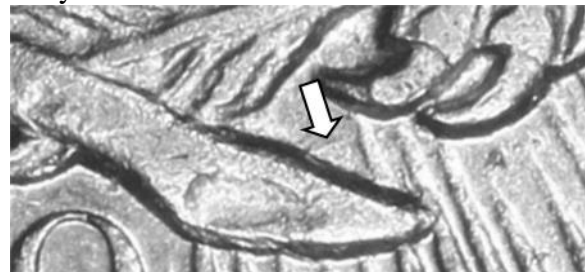


- Date (photo), tiny tine on the right of the upright of the 1(853)
- No drapery below Liberty's right elbow; I have not seen this obverse with a drapery.
- No discernible die diagnostics

Reverse D



- Large O mintmark (photo), thin top O, no ray inside the mintmark



- Horizontal die line between the olive stem and eagle's claws (photo)



- Radial die crack from dentil at K-4 into field right of the (AMERIC)A; other die cracks along arrowhead tips, along base of legend with a tiny cud along the O(F) (photo) visible on examples of all grades
- Weak top of vertical shield lines A1-3

This is the first use of this obverse die and third use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: None	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-12, Arrows and Rays



Obverse 11



Reverse D (enhanced die cracks in photo at right)

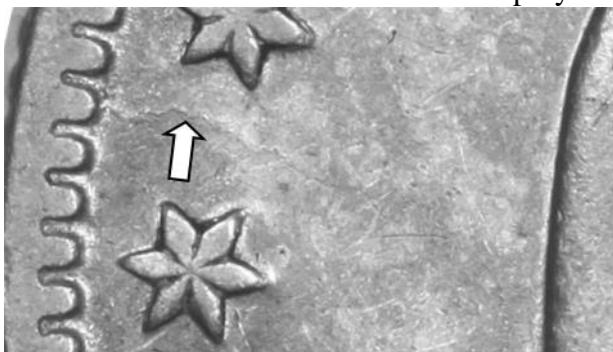
1853-O

WB-13, Arrows and Rays

Obverse 11



- Date (photo), tiny tine on the right of the upright of the 1(853)
- No drapery below Liberty's right elbow; I have not seen this obverse with a drapery.

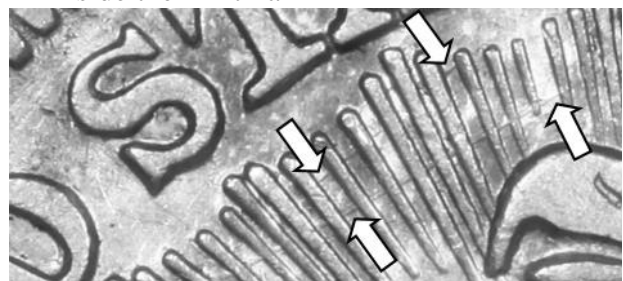


- Radial die crack from dentil into field between stars 2-3 (photo); other weaker die cracks between stars 1-2, 5-6, Liberty's head to cap, and 10-12

Reverse E



- Large O mintmark (photo), a single ray inside the mintmark



- Long thin die lines in the rays to the left of and above the eagle's beak (photo); other die lines in the field above HAL(F)



- All examples seen: die crack thru the denomination and olive leaves including a small cud between (H)AL(F) (photo); a radial die crack from the dentil at K-3 to the (AMERIC)A
- LDS: outstretching rays are now shortened from die wear and die maintenance

This is the second use of this obverse die and only use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.204"	Rarity - 3
Drapery die state: None	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-13, Arrows and Rays



Obverse 11 (enhanced die cracks in photo at right)



Reverse E (enhanced die cracks in photo at right)

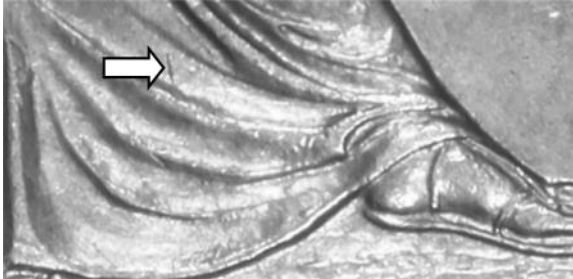
1853-O

WB-14, Arrows and Rays

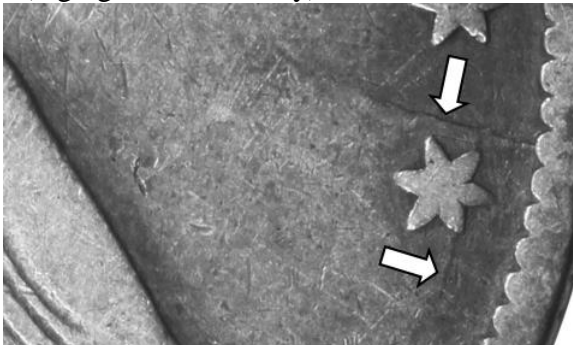
Obverse 12



- Date (photo)



- Die line in Liberty's gown (photo) and a small lump at the base of Liberty's throat (high grade coins only)

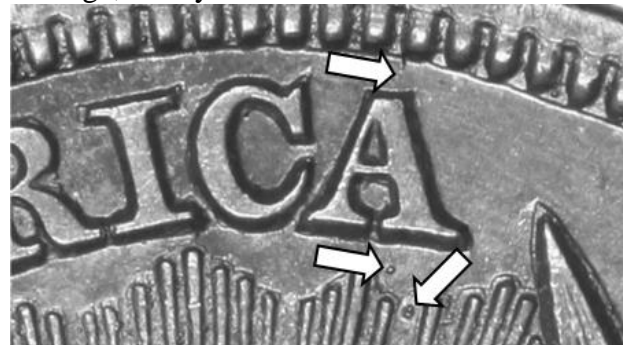


- LDS: radial die crack into field from dentil between stars 12-13; die crack thru stars 12-13 towards Liberty's foot (photo)
- LDS: weak foot support
- VEDS: tine from the 1(854) to the adjacent arrowhead
- All examples seen: no drapery from Liberty's elbow and heavy clash lines in that area

Reverse F



- Large O mintmark (photo) with a thin upper edge; no ray inside the mintmark



- Weak radial die crack from the dentil above (AMERIC)A and two small lumps in the field below the (AMERIC)A (photo)



- LDS: die crack along the top of (STATE)S OF to dentil above (A)M(ERICA) (photo)
- EDS: faint crossed die lines between (O)F A(MERICA)
- Many rust lumps throughout reverse devices

This is the only use of this obverse die and first use of this reverse die.

A LDS example of this die marriage is known with a 15° clockwise reverse rotation.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: None	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS - AU58 LDS - VG10		EDS coin from the John Murison Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O

WB-14, Arrows and Rays



Obverse 12 (enhanced die cracks in photo at right)



Reverse F (enhanced die cracks in photo at right)

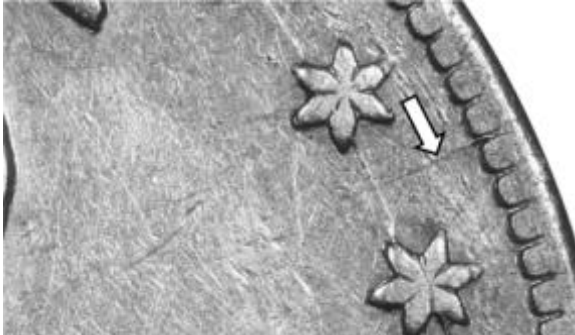
1853-O

WB-15, Arrows and Rays

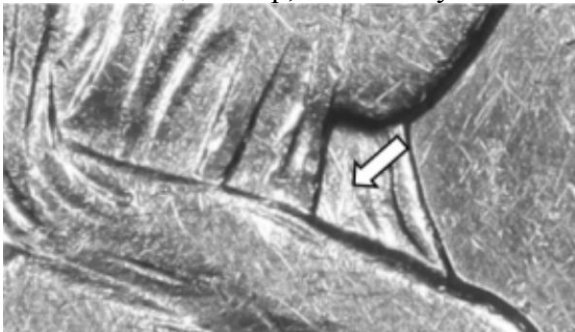
Obverse 9



- Date (photo)



- All examples seen: radial die crack from between dentils between stars 10-11 into field (photo); other heavier die cracks from the rock support below Liberty's right foot thru all stars, the cap, and Liberty's head

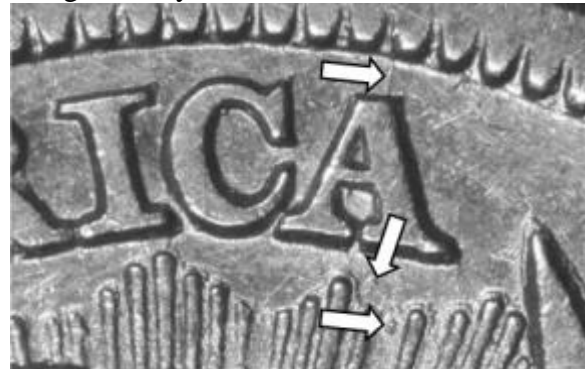


- Diagonal die lines in the drapery below Liberty's elbow (photo)

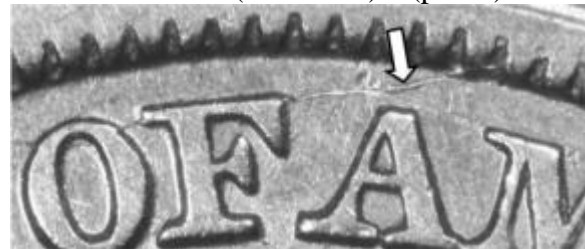
Reverse F



- Large O mintmark (photo) with a thin upper edge; no ray inside the mintmark



- Weak radial die crack from the dentil above (AMERIC)A and two small lumps in the field below the (AMERIC)A (photo)



- All die states: die crack along the top of (STATE)S OF to dentil above (A)M(ERICA) (photo); others die cracks along the top of (ST)ATES
- Many rust lumps throughout reverse devices especially in the rays and on the eagle
- Multiple clash marks in shield's lower right

This is the second use of this obverse die and second use of this reverse die.

Date grid: L5, .010"	Unknown reeds	Typical diameter = Unknown	Rarity - 4
Drapery die state: Full	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS XF Details		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-15, Arrows and Rays



Obverse 9 (enhanced die cracks in photo at right)



Reverse F (enhanced die cracks in photo at right)

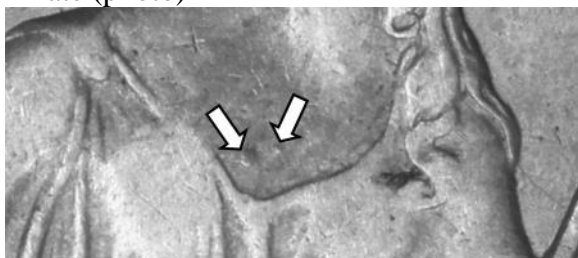
1853-O

WB-16, Arrows and Rays

Obverse 13



- Date (photo)



- Multiple die lumps on Liberty: on her chest (photo above) and in her skirt (photo below)

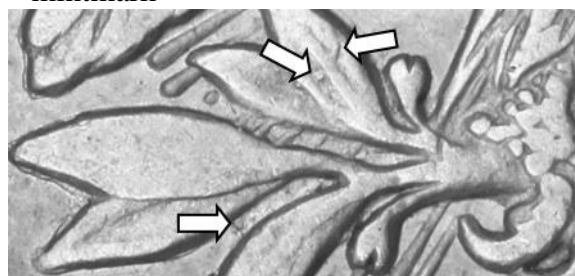


- Radial die crack from dentil at K-3 thru star 12 into field (photo) and to star 11
- No drapery below Liberty's right elbow; I have not seen this obverse with a drapery (see photo above).

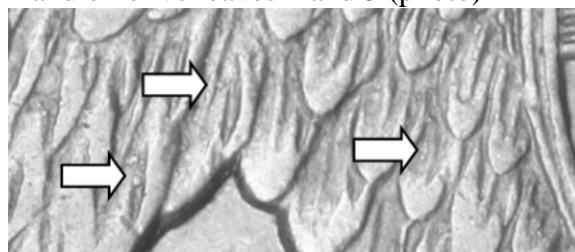
Reverse G



- Large O mintmark (photo), no ray inside the mintmark



- Scattered lumps between olive leaves 1-2 and on olive leaves 4 and 5 (photo)



- Scattered lumps in the feathers on the eagle's left wing (photo)



- Radial die crack from the dentil to the (AMERIC)A (photo)
- LDS: die cracks thru the olive leaves and along the base of the denomination

This is the only use of this obverse die and first use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: None	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1853-O

WB-16, Arrows and Rays



Obverse 13 (enhanced die cracks in photo at right)



Reverse G (enhanced die cracks in photo at right)

1853-O

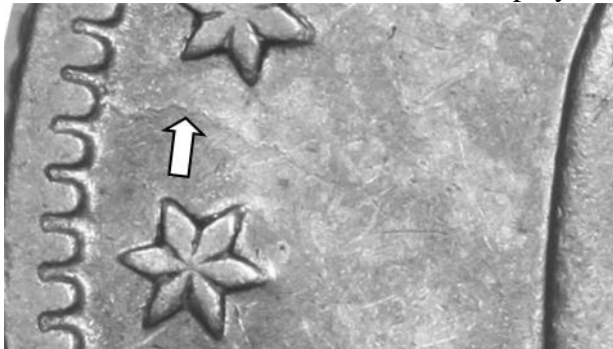
WB-17, Arrows and Rays

Representative photos from the obverse of WB-13 and reverse of WB-16

Obverse 11



- Date (photo), tiny line on the right of the upright of the 1(853)
- No drapery below Liberty's right elbow; I have not seen this obverse with a drapery.

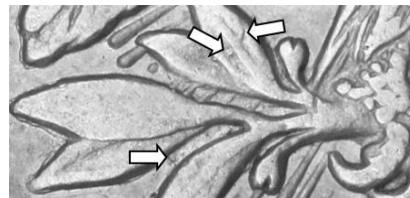


- Radial die crack from dentil into field between stars 2-3 (photo); other weaker die cracks between stars 1-2, 5-6, Liberty's head to cap, and 10-12

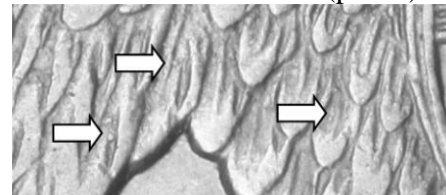
Reverse G



- Large O mintmark (photo), no ray inside the mintmark



- Scattered lumps between olive leaves 1-2 and on olive leaves 4 and 5 (photo)



- Scattered lumps in the feathers on the eagle's left wing (photo)



- Radial die crack from the dentil to the (AMERIC)A (photo)

LDS: die cracks thru the olive leaves and along the base of the denomination

This is the third use of this obverse die and second use of this reverse die.

Only on example of this die marriage has been seen:

ex-Bowers & Merena Frontenac Sale, 11/1991: 3254 as EF45

ex-Bowers & Merena Somerset Sale, 5/1992: 618 now PCGS XF40.

Date grid: L5, .010"	Unknown reeds	Typical diameter = Unknown	At least Rarity - 6
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: -		-	
Cross reference: WB-101.		Version 1.325	

1853-O

WB-17, Arrows and Rays

Representative photos from the obverse of WB-13 and reverse of WB-16



Obverse 11 (enhanced die cracks in photo at right)



Reverse G (enhanced die cracks in photo at right)

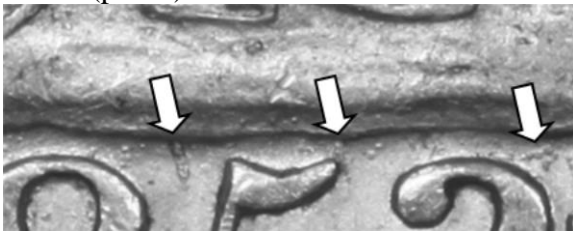
1853-O

WB-18, Arrows and Rays, DDR

Obverse 14



- Date (photo)



- Vertical die lines from the rock support and multiple rust lumps above the date (photo)



- Die lines in the drapery below Liberty's elbow (photo)
- Very rusty die; multiple rust lumps throughout Liberty and in the field below the rock support

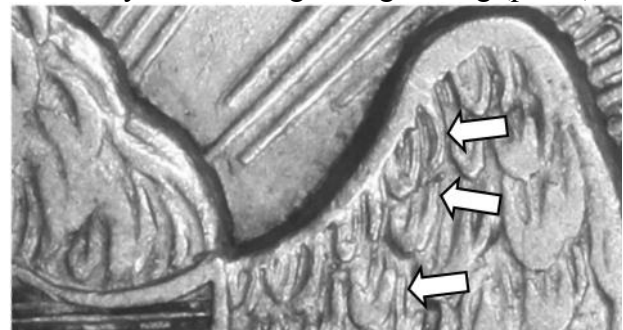
Reverse H



- Large O mintmark (photo), a single ray inside the mintmark



- All examples seen: radial die crack from the dentil at K-4 thru the upper arrowhead into the rays and the eagles' right wing (photo)



- Lightly doubled reverse die: weak doubling on upper feathers of the eagle's right wing and on vertical shield lines (photo)
- Vertical die lines in the field above (AM)ERI(CA)
- Very rusty die; multiple rust lumps throughout the reverse

This is the first use of this obverse die and only use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-18, Arrows and Rays, DDR



Obverse 14



Reverse H (enhanced die cracks in photo at right)

1853-O

WB-19, Arrows and Rays

Obverse 14



- Date (photo)



- Vertical die lines from the rock support and multiple rust lumps above the date (photo)

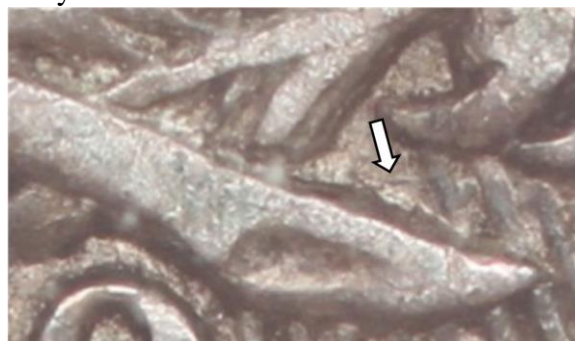


- Die lines in the drapery below Liberty's elbow (photo)
- Very rusty die; multiple rust lumps throughout Liberty and in the field below the rock support

Reverse D



- Large O mintmark (photo), thin top O, no ray inside the mintmark



- Horizontal die line between the olive stem and eagle's claws (photo)



- Radial die crack from dentil at K-4 to a die crack connecting the upper arrowhead and (AMERIC)A
- Vertical die line in the rays to the left of (AMERIC)A

This is the second use of this obverse die and second use of this reverse die.

Date grid: L5, .010"	Unknown reeds	Typical diameter = Unknown"	At least Rarity - 6
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Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full
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Grade of coin depicted: PCGS XF40	Coin from the Bill Bugert Collection
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Cross reference: WB-101.

Version 1.325

1853-O
WB-19, Arrows and Rays



Obverse 14



Reverse D (enhanced die cracks in photo at right)

1853-O

WB-20, Arrows and Rays

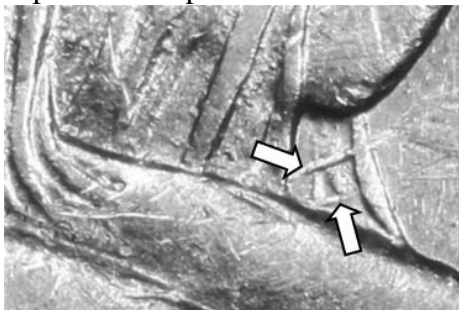
Obverse 14



- Date (photo)



- Radial die crack from the dentil at K-3 above stars 12 into the field (photo)
- A few die lines from the rock support and multiple rust lumps above the date

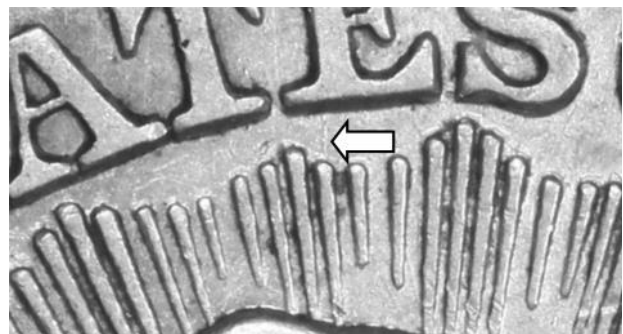


- Die lines in the drapery below Liberty's elbow (photo)
- Very rusty die; multiple rust lumps throughout Liberty and the rock support

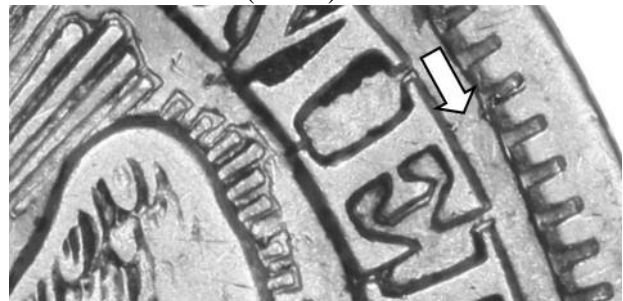
Reverse I



- Large O mintmark (photo), a single ray inside the mintmark



- Vertical die line below (STAT)E(S) to rays (photo); another weak die line along the base of the UN(ITED)



- Radial die crack from dentil to (AM)E(RICA) (photo)

This is the third use of this obverse die and first use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-20, Arrows and Rays



Obverse 14 (enhanced die cracks in photo at right)



Reverse I

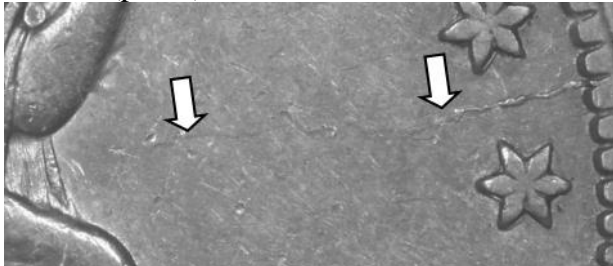
1853-O

WB-21, Arrows and Rays

Obverse 15



- Date (photo)

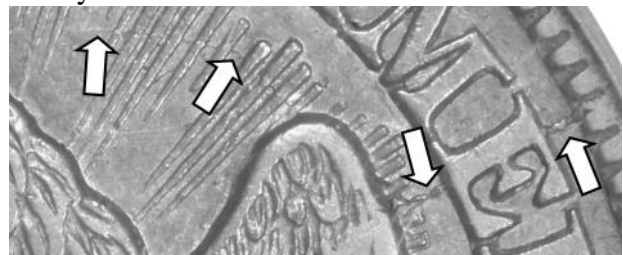


- All examples seen: radial die crack from dentil into field between stars 11-12 almost to Liberty's drapery below her elbow (photo); another die crack from stars 10-11
- Heavy clash lines on Liberty's lap, in the drapery under her elbow, and under the pole

Reverse I



- Large O mintmark (photo), a partial single ray inside the mintmark



- Two radial die cracks: from dentil to (AM)E(RICA) into the eagle's right wing into the rays to the eagle's head above the wing (photo above); another from the dentils along the left side of the U(NITED) to the eagle's left wing (photo below)



- Die line from the upper right serif of (HAL)F into the rays (photo)

This is the only use of this obverse die and second use of this reverse die.

Date grid: L5, .010"	143 reeds	Typical diameter = 1.203"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS XF40		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1853-O
WB-21, Arrows and Rays



Obverse 15 (enhanced die cracks in photo at right)



Reverse I (enhanced die cracks in photo at right)

1854-O

With a very high mintage of over 5 million pieces, almost anywhere you find Liberty Seated coins, you will find 1854-O half dollars. At almost every coin show or coin shop, you will find them. For many years, I thought 1854-O half dollars to be boring and uninteresting so I never bothered with them. I was delighted when Mike Lloyd, a longtime friend and Liberty Seated Collectors Club member-numismatist from Washington state, “discovered” them and decided to research the die marriages for 1854-O; it saved Randy Wiley and I the grunt work for this date. Mike ultimately self-published two editions of *The Varieties of 1854 New Orleans Liberty Seated Half Dollars*. Mike tells his “story” here:

“I initially became interested in 1854-O half dollars in the 1990s because I frequently encountered coins with interesting die cracks or die breaks, yet there was little information published on the subject.

I started accumulating interesting 1854-Os and began to see similarities among coins. I decided to see if I could make sense of the die marriages and dramatically different die states. Fortunately, 1854-Os were common then due to the high mintage and [they were] available in virtually any grade at any coin show, providing [me] a steady source of coins to study.

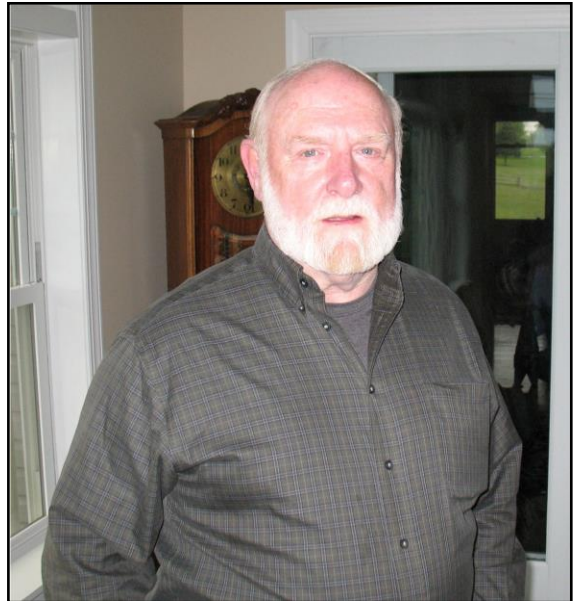
Eventually, in 1998, I published my findings as “*The Varieties of 1854 New Orleans Liberty Seated Half Dollars*.”

My interests drifted away from 1854-Os for several years but due to a recent inquiry from Bill Bugert, my interest has been rekindled and now I am a regular pursuer of internet offerings. I am surprised and pleased to see that of the coins with sufficient details to attribute I have been unable yet to identify any dies or die marriages unknown to me, although I have found some late die states unknown to me.

1854-Os are still common so I expect to continue their study, hunting for that previously unknown marriage or die.”

Mike graciously allowed me to borrow, intact, his complete reference collection of 1854-O half dollars, numbering in excess of 300 pieces, for use in this register. Without his generosity, this section of the book, and indeed this Register, would have been severely lacking; 1854-O half dollar die marriages account for over one-quarter [58 of the 208] of all the late date New Orleans half dollar die marriages. Many of his coins are depicted herein as representative samples of the die marriages for 1854-Os and, for his assistance, I am deeply indebted and forever grateful.

In studying Mike’s reference collection, I gained a new perspective on this date and, at a talk at the 2012 LSCC annual meeting at the Philadelphia ANA World’s Fair of Money, I declared this date “my new favorite half dollar date.” Mike called my attention to all the die cracks, die states, die marriages of 1854-O half dollars and I now share his enthusiasm. I hope that you will too.



Mike Lloyd at the Bugert home in Gettysburg, PA in April 2012.

Fifty-eight die marriages are known as depicted in the tables below and detailed on the following pages.

Mintage	Number of Dies	Number of Die Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
5,240,000	Requested	-	28*	22*	3 (141, 143, 148)
	Shipped	-	28*	6*	
	Known	58	41	29	

Note * = Obviously from the numbers depicted here, the die shipment information, as Randy and I researched in the U.S. National Archives, is incomplete. A more accurate number of dies on hand for use at the New Orleans Branch Mint in 1854 is the record of the dies cancelled for 1854. This number includes 55 obverse dies and 32 reverse dies.

Date style. As with 1853-O, arrows at the date were continued but not the rays on the reverse. To comply with the Mint Act of 1853, the arrowheads were added at each side of the digits of the date to signify a half dollar planchet weight change from 206.25 grains to 192 grains. This is the first year of issue in the entire Liberty Seated half dollar series for the arrows only (no rays on the reverse) on the obverse die design.
















As with 1853-O with Arrows and Rays, there is no variation in the placement of the date and arrowheads for this date (see photo at right). To signify the planchet weight reduction, I believe the date and arrowheads were punched into a temporary master die to ensure the arrowheads were on all 1854-O obverse working dies. Accordingly, the date position is M2, .010” and should be the same (within slight die state variations) for all 1854-O Arrows half dollars.












Device outlining. This characteristic is common on 1854-O half dollars. See “Miscellaneous Information” section in the introduction to this Register for additional information.

Rarity of 1854-O half dollars. 1854-O half dollars are one of the most common dates in the Liberty Seated half dollar series; as such, an accurate rarity rating for every die marriage is difficult. My estimates are derived from the number of coins for each die marriage in Mike Lloyd’s reference collection, other collections, and my personal observations over a number of years. With a very high mintage of over 5 million pieces, almost anywhere you find Liberty Seated halves, you will find 1854-O half dollars. As I mentioned previously, at almost every coin show or coin shop, you will find them. These halves do have an allure to them and if you spent some time studying the multitude of die marriages, you may be attracted to them. Almost every die marriage has dramatically cracked obverse and reverse dies and trying to find an example of each one will be a demanding effort. Fortunately, 1854-O halves are relatively inexpensive and available and ultimately, after decades of study and observations by the collector community, my initial rarity rating for each die marriage may be more accurately documented.

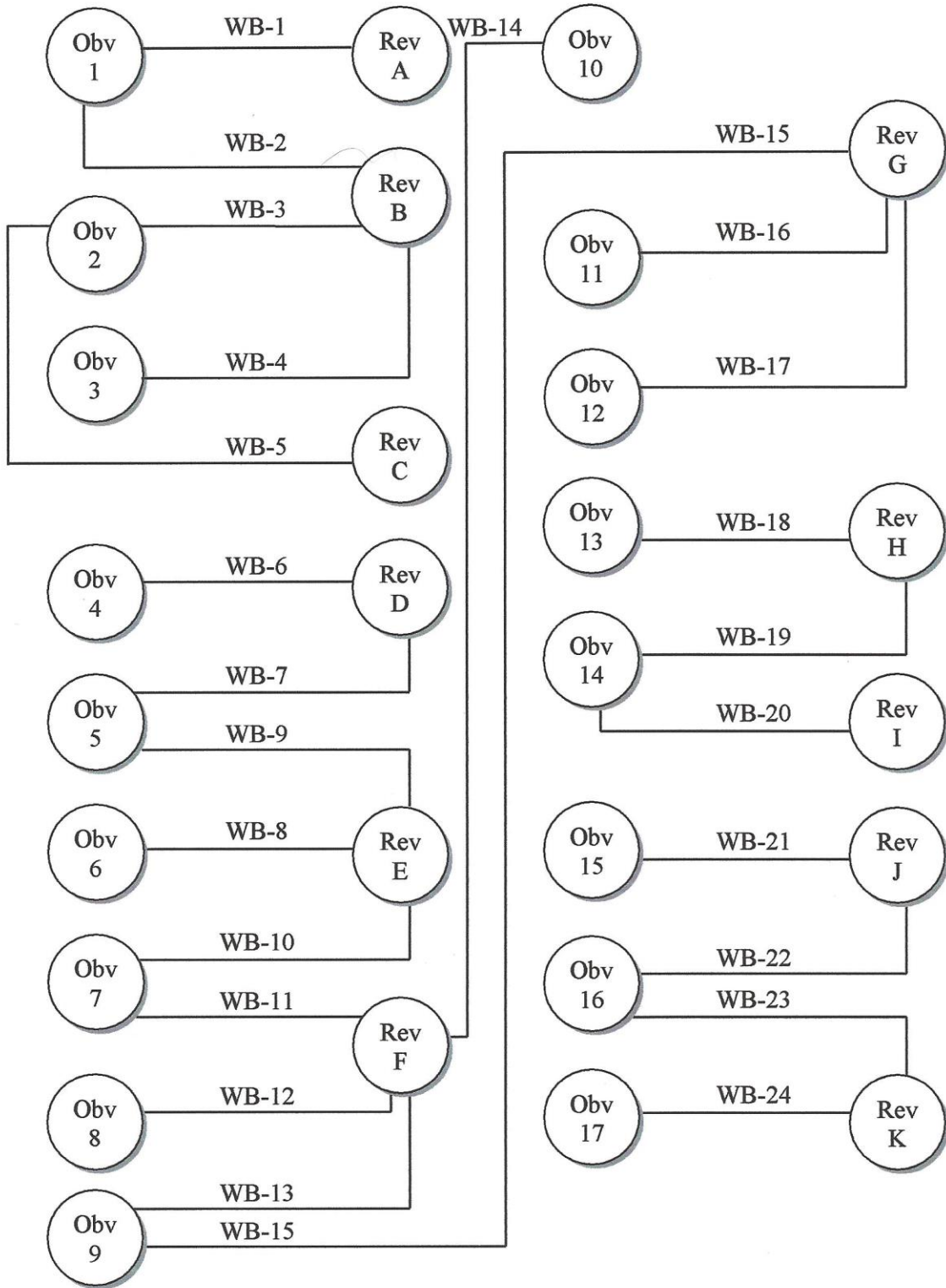
1854-O Half Dollar Mintmark Positions

 <p>Reverse A, WB-1</p>	 <p>Reverse B, WB-2, 3, 4</p>	 <p>Reverse C, WB-5</p>
 <p>Reverse D, WB-6, 7</p>	 <p>Reverse E, WB-8, 9, 10</p>	 <p>Reverse F, WB-11,12,13,14</p>
 <p>Reverse G, WB-15,16,17</p>	 <p>Reverse H, WB-18, 19</p>	 <p>Reverse I, WB-20</p>
 <p>Reverse J, WB-21, 22</p>	 <p>Reverse K, WB-24</p>	 <p>Reverse L, WB-25</p>
 <p>Reverse M, WB-26,27,28,29</p>	 <p>Reverse N, WB-30, 31, 32</p>	 <p>Reverse O, WB-33, 34</p>

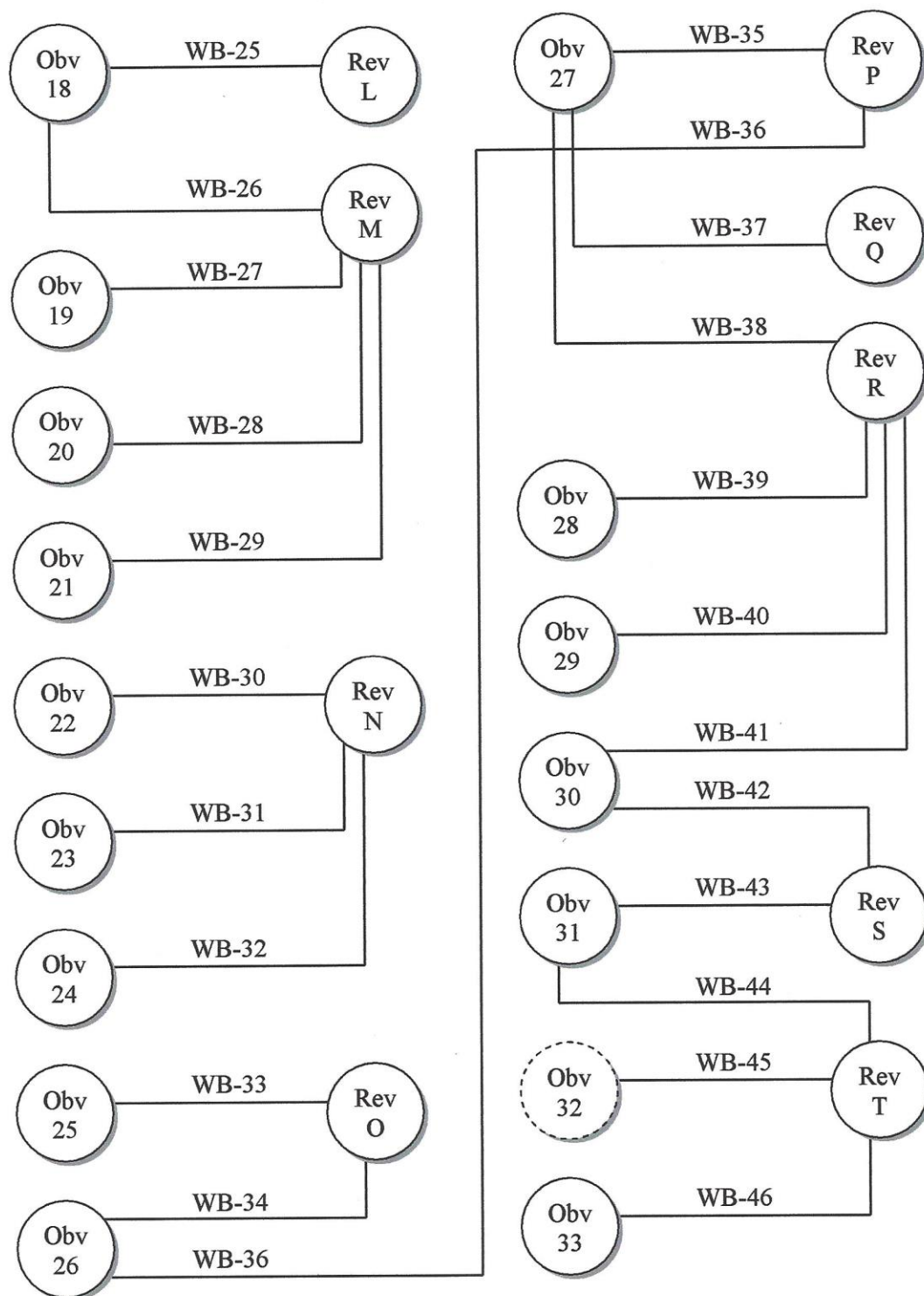
1854-O Half Dollar Mintmark Positions (Cont'd)

 <p>Reverse P, WB-35, 36</p>	 <p>Reverse Q, WB-37</p>	 <p>Reverse R, WB-38,39,40,41</p>
 <p>Reverse S, WB-42, 43</p>	 <p>Reverse T, WB-44, 45, 46</p>	 <p>Reverse U, WB-47, 48</p>
 <p>Reverse V, WB-49, 50</p>	 <p>Reverse W, WB-51</p>	 <p>Reverse X, WB-52</p>
 <p>Reverse Y, WB-53</p>	 <p>Reverse Z, WB-54, 55</p>	 <p>Reverse AA, WB-56</p>
 <p>Reverse BB, WB-57</p>	 <p>Reverse CC, WB-58</p>	

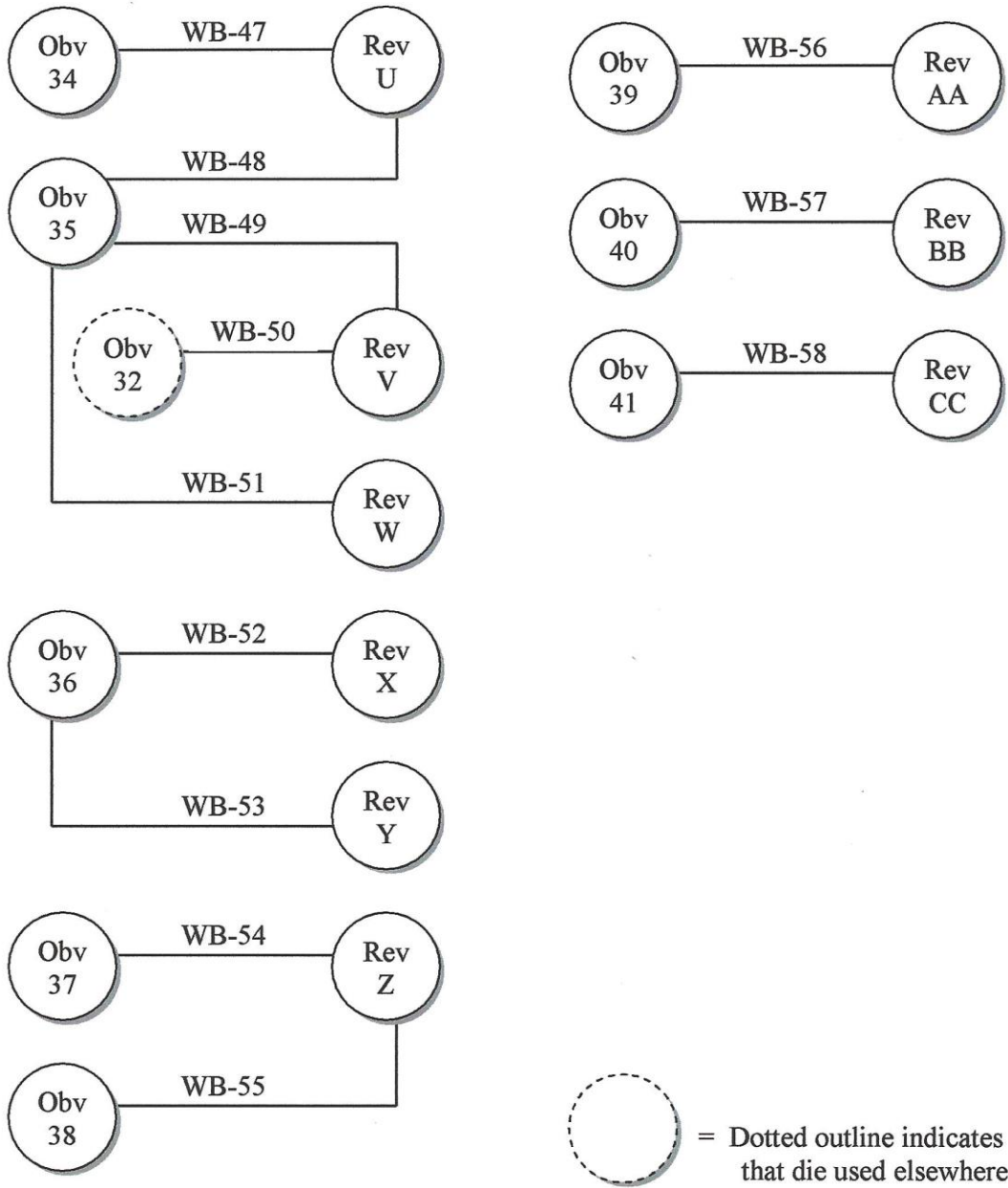
1854-O Half Dollar Die Linkage Diagram



1854-O Half Dollar Die Linkage Diagram (Cont'd)



1854-O Half Dollar Die Linkage Diagram (Cont'd)



1854-O Obverse and Reverse die identification keys		Radial die crack at K-8	Die lines above (AM)E(RICA)	Die lines under eagle's left wing	Die lines thru AM(ERICA)	Bigfoot N	Rust lumps at the tip of olive leaves	Arching die cracks at arrowheads and (AMERIC)A
		A	B	C	D	E	F	G
Rust lumps on Liberty	1	WB-1	WB-2					
Bridged baseground	2		WB-3	WB-5				
Raised lump in Liberty's lap	3		WB-4					
Rust lump above Liberty's lap	4				WB-6			
Radial die crack thru the right arrowhead	5				WB-7	WB-9		
Die crack at K-2 near star 10	6					WB-8		
Rust lump in the tip of the shield	7					WB-10	WB-11	
Die cracks thru all stars	8						WB-12	
Die cracks thru all stars	9						WB-13	WB-15
Rust lumps on Liberty	10						WB-14	
Radial die crack at K-3 along star 12	11							WB-16
Die line above 18(54)	12							WB-17

1854-O Obverse and Reverse die identification keys (Continued)		Die crack thru (STA)TES OF to the eagle's head	Very rusty die	Die lines beneath HALF	Die lines in the shield's lower recessed area
		H	I	J	K
Lump on Liberty's left shoulder	13	WB-18			
Die cracks thru stars 1-7	14	WB-19	WB-20		
Parallel die lines under Liberty's chin	15			WB-21	
Die lines above UNIT(E)D	16			WB-22	WB-23
EDS uncracked; LDS large cracks at K-7	17				WB-24

1854-O Obverse and Reverse die identification keys (Continued)		Crumbled die	Radial die crack thru left edge of D(OL)	Weak eagle's left leg and feathers to left of the shield	Horizontal die lines in the lower shield	Die line above (AM)E(RICA)	Many die lines thru (HA)LF DOL	Tiny tines from the outside upper right of the H(ALF)
		L	M	N	O	P	Q	R
No identifiable die diagnostics	18	WB-25	WB-26					
No identifiable die diagnostics	19		WB-27					
Radial die crack between stars 12-13	20		WB-28					
Radial die crack thru star 4 to Liberty	21		WB-29					
Radial die crack thru (18)5(4)	22			WB-30				
Vertical die line thru (185)4	23			WB-31				
Die crack is thru stars 4-7	24			WB-32				
Radial die crack thru star 11	25				WB-33			
Scattered die lines thru the (1)854	26				WB-34	WB-36		
Scattered die lines/crud thru the date	27					WB-35	WB-37	WB-38
Crisscrossed die lines in the date; radial die crack at star 12	28							WB-39
Radial die crack at K-4 below star 13	29							WB-40
Die lines above the 185(4)	30							WB-41

1854-O Obverse and Reverse die identification keys (Continued)		Radial die crack thru the arrowheads	Diagonal die line above (STATE(S))	Radial die crack bisecting (D)O(L)	Rust lumps above (UNIT)ED S(TATES)	Radial die crack thru the (A)M(ERICA) to the eagle's right wing	Horizontal die lines in the lower shield	Radial die crack bisecting D(OL)
		S	T	U	V	W	X	Y
Radial die crack thru star 11	30	WB-42						
Radial die crack along the (1)8(54)	31	WB-43	WB-44					
Die lines thru star 8 and cap; radial die crack thru star 6	32		WB-45		WB-50			
Die crack around the circumference	33		WB-46					
Die crack under Liberty's chin	34			WB-47				
Lump in the rock support to the left of the skirt loop	35			WB-48	WB-49	WB-51		
Die lines thru the date and arrowhead	36						WB-52	WB-53

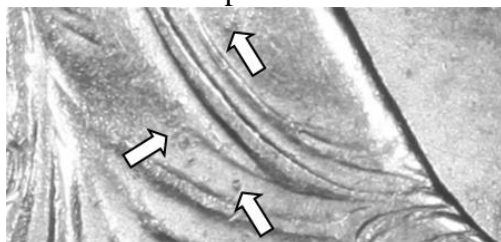
1854-O Obverse and Reverse die identification keys (Continued)		Radial die crack thru (A)M(ERICA)	Die lines above and thru UNITED	Radial die crack thru (DO)L	Weak die crack above (UNITE)D
		Z	AA	BB	CC
EDS: die lines above the right arrowhead. LDS: radial die crack between stars 1-2	37	WB-54			
Die lines thru date; die crack thru stars 9-13	38	WB-55			
Die line from the rim to Liberty's head	39		WB-56		
Die cracks thru the right arrowhead into the rock support	40			WB-57	
Die lines from the rock into the shield's left side	41				WB-58

1854-O WB-1, Arrows

Obverse 1



- Date. Previously identified as a tripled obverse with the prominent doubling on the date, in a very rare EDS (photo) the obverse die is correctly identified as with quadruple machine doubling and should not be confused with a tripled die.



- All die states: rust lumps on Liberty prominently on skirt above the ankle (photo)

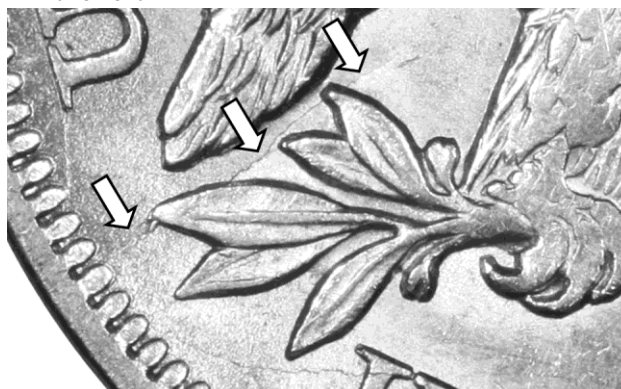


- LDS: die cracks thru left arrowhead thru rock support to rock (photo); others thru stars 10-13, along base of date, and from rim to star 1

Reverse A



- Large O mintmark (photo) tilting slightly to the left



- All examples seen: radial die crack from rim at K-8 thru upper olive leaf tips into field under left wing (photo).



- LDS: other die cracks thru legend, arrow heads, and denomination (photo)
- LDS: clash in shield's lower right
- No usable die diagnostics seen other than die cracks

This is the first use of this obverse die and only use of this reverse die. Mostly to explain the machine doubling, Mike Lloyd dedicates four pages to this die marriage in his reference.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.206"	Rarity - 2
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Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full
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Grade of coin depicted: EDS: VF25 LDS: AU53	EDS coin from the Bill Bugert Collection LDS coin from the Mike Lloyd Collection
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Cross reference: WB-101, Lloyd-101, Besitle-5D, and *Gobrecht Journal* # 35.

Version 1.325

**1854-O
WB-1, Arrows**



Obverse 1 (enhanced die cracks in photo at right)



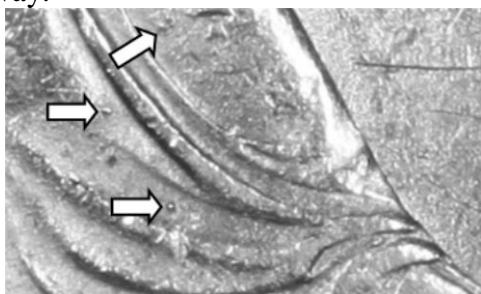
Reverse A (enhanced die cracks in photo at right)

1854-O WB-2, Arrows

Obverse 1



- Most machine doubling seen on the previous use of this die is now polished and/or worn away.



- All die states: rust lumps on Liberty prominently on skirt above the ankle (photo)

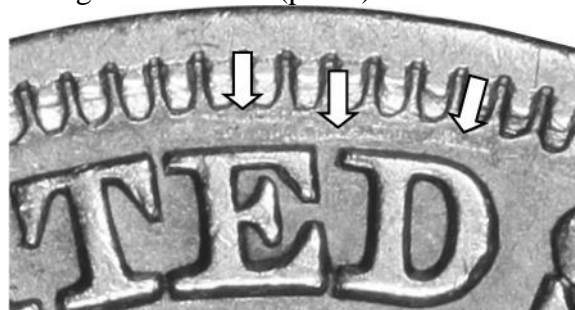


- All die states: die cracks thru left arrowhead thru rock support to rock now a spider-web of cracks between 1 and left arrowhead (photo)
- Other die cracks thru stars 1-2, thru, along base of date, thru right foot, and stars 10-13
- VLDS: small cud at K-4

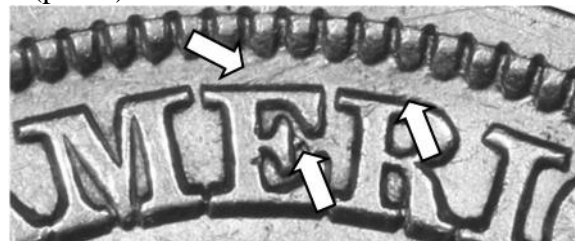
Reverse B



- Large O mintmark (photo)



- EDS to MDS: die lines above (UNIT)ED (photo) that are not found on LDS coins



- All die states: die lines above (AM)E(RICA) (photo)
- Clash in shield's lower right

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.210"	Rarity - 3
Draper die state: Partial	Foot support: Weak	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: EDS: XF40 LDS: AU55		EDS coin from the Mike Lloyd Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-102.		Version 1.325	

1854-O
WB-2, Arrows



Obverse 1 (enhanced die cracks in photo at right)



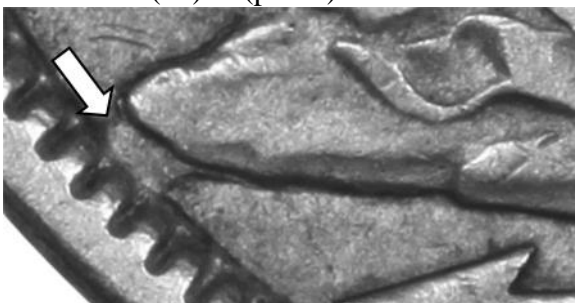
Reverse B

1854-O WB-3, Arrows

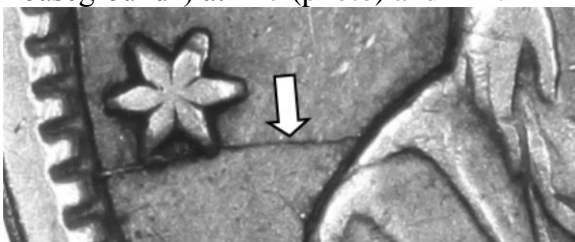
Obverse 2



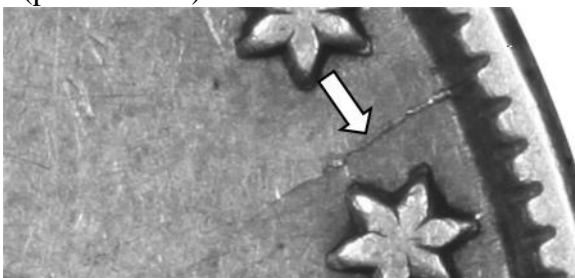
- EDS coins only: diagonal (NW to SE) die lines thru (18)54 (photo)



- Rock support connected to the rim (Mike Lloyd calls this feature “bridged baseground”) at K-7 (photo) and K-4.



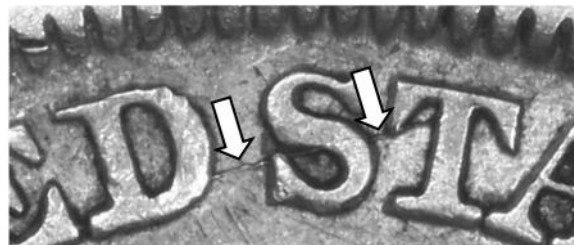
- All but EDS coins: two distinct die cracks from rim to upper tip of rock (photo above) and from rim into field between stars 10-11 (photo below)



Reverse B



- Large O mintmark (photo)
- The die lines above (AM)E(RICA) seen in the previous use of this die are visible only on EDS coins.



- EDS coins uncracked. MDS to LDS coins: die cracked thru (UNITE)D ST(ATES) (photo above) and along the base of the denomination forming a rim cud below (HAL)F D(OL) in VLDS coins (photo below); another die crack from rim to thru the tip of olive leaf #2. The rim cud on VLDS coins will only be visible on coins grading VF or higher.



- Clash in shield’s lower right

This is the first use of this obverse die and second use of this reverse die.

This die marriage is the most common of the 1854-O half dollars.

Date grid: M2, .010”	143 reeds	Typical diameter = 1.211”	Rarity - 1
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-103.		Version 1.325	

1854-O
WB-3, Arrows



Obverse 2 (enhanced die cracks in photo at right)



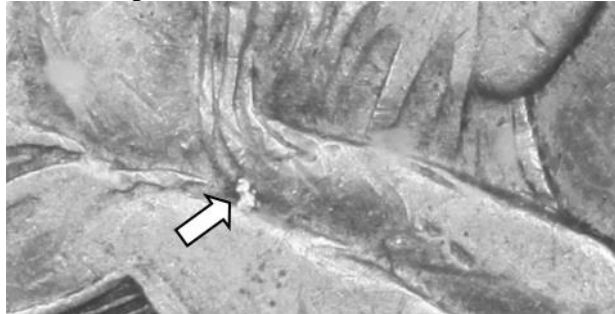
Reverse B (enhanced die cracks in photo at right)

1854-O WB-4, Arrows

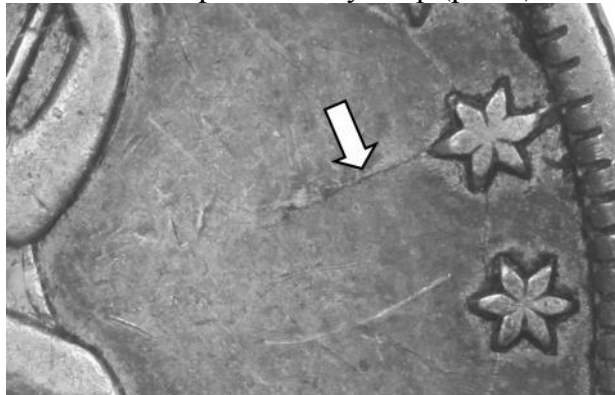
Obverse 3



- Date (photo)



- Raised lumps in Liberty's lap (photo)

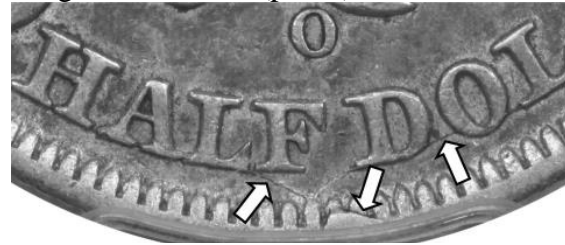


- All examples seen but likely MDS to LDS coins only: die crack from Liberty's arch thru stars 13-9 to cap
- VLDS: radial die crack from dentil thru star 11 into field towards Liberty's drapery (photo)

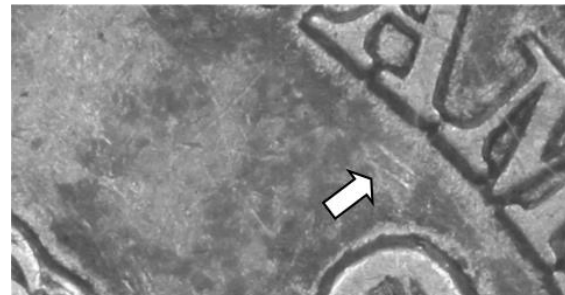
Reverse B



- Large O mintmark (photo)



- The rim cud below (HAL)F D(OL) seen on VLDS coins of the previous use of this die is found on all coins of this die marriage (photo). The rim cud will only be visible on coins grading VF or higher. The die cracks along the base of the denominations are now much more advanced than on the previous use of this die.



- LDS: a faint die crack is visible from the upper right wing tip into the field below the A(MERICA) (photo)

This is the only use of this obverse die and third use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: PCGS XF40		Coin from the Bill Bugert Collection	
Cross reference: WB-101, Lloyd-104.		Version 1.325	

**1854-O
WB-4, Arrows**



Obverse B (enhanced die cracks in photo at right)



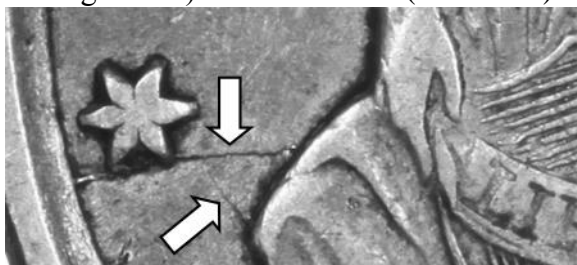
Reverse B (enhanced die cracks in photo at right)

1854-O WB-5, Arrows

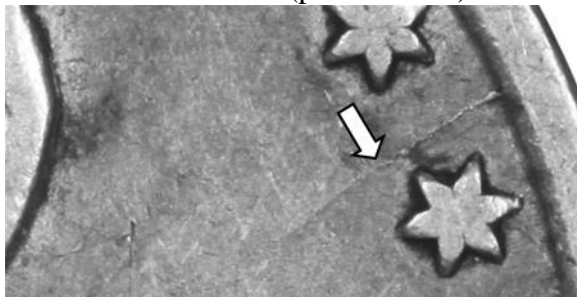
Obverse 2



- Date (photo)
- Rock support connected to the rim (Mike Lloyd calls this feature “bridged baseground”) at K-7 and K-4 (see WB-3).



- Since they appear on the first use of this die, all examples of this die marriage will have two distinct die cracks from rim to upper tip of rock (photo above) and from rim into field between stars 10-11 (photo below)

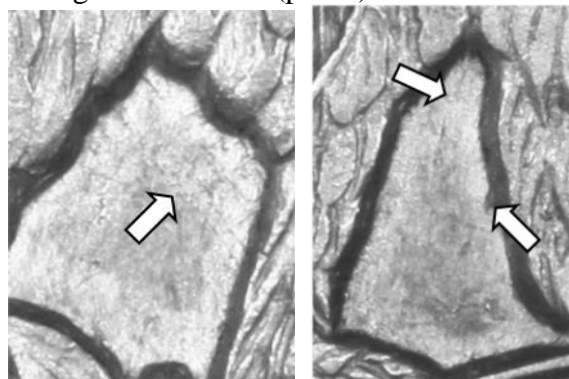


- Clash mark in field to the right of the drapery below Liberty’s elbow

Reverse C



- Large O mintmark (photo)



- Diagonal (NW to SE) die lines under eagle’s left wing (photo above left) and nearly vertical die lines under right wing (photo above right)
- Weak die crack along the top of letters (AME)RICA

This is the second use of this obverse die and only use of this reverse die.

Date grid: M2, .010”	143 reeds	Typical diameter = 1.207”	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Weak; Reverse - Full	
Grade of coin depicted: VF35		Coin from the Bill Bugert Collection	
Cross reference: WB-101, Lloyd-105.		Version 1.325	

1854-O
WB-5, Arrows



Obverse 2 (enhanced die cracks in photo at right)



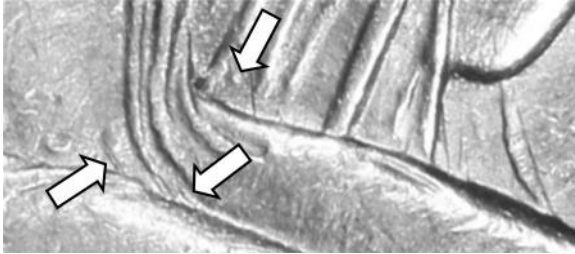
Reverse C (enhanced die cracks in photo at right)

1854-O WB-6, Arrows

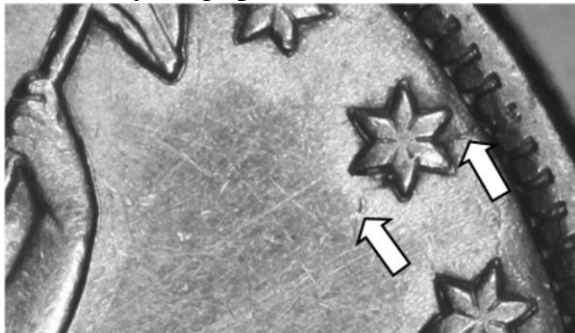
Obverse 4



- Date (photo)



- Rust lump above Liberty's lap to the left of the pole; three diagonal (NW to SE) die lines in Liberty's lap (photo)

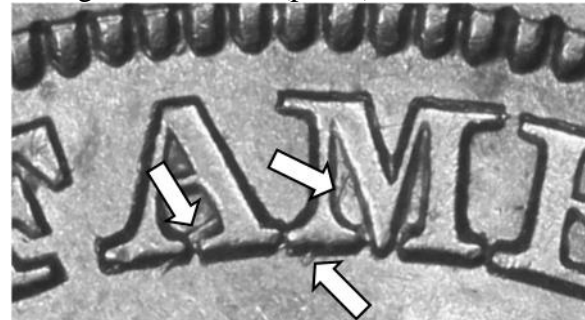


- Radial die crack from the rim thru star 10 (photo); other cracks from Liberty's head thru star 8, cap, and thru stars 9-13 and thru the rock support and ribbon

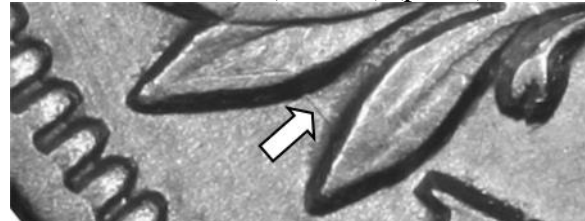
Reverse D



- Large O mintmark (photo)



- Die lines thru AM(ERICA) (photo)



- Die line between olive leaves 1-2 (photo)



- Radial die crack from rim thru (AMER)I(CA) (photo); other faint die cracks thru arrowheads

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	141 reeds	Typical diameter = 1.207"	Rarity - 4
Dravery die state: Weak	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-201.		Version 1.325	

1854-O
WB-6, Arrows



Obverse 4 (enhanced die cracks in photo at right)



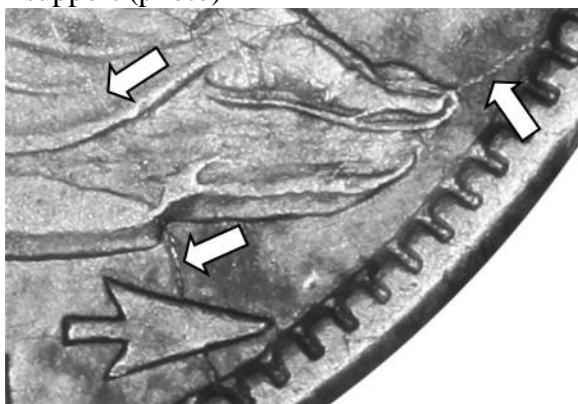
Reverse D (enhanced die cracks in photo at right)

1854-O WB-7, Arrows

Obverse 5



- Date with die crack from the 1's serif to rock support (photo)



- All examples seen: radial die crack from rim vertically thru the right arrowhead into the rock support and Liberty's skirt (photo). Other die cracks around the circumference: stars, date, and Liberty's cap

Reverse D



- Large O mintmark (photo)
- EDS only: die lines thru AM(ERICA) and die line between olive leaves 1-2 as seen in the previous use of this die



- MDS to LDS: heavy die cracks thru (AME(RICA) thru arrowheads (photo); LDS with cuds forming (photo below) and die cracks almost around the entire circumference



This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.210"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: MDS: XF45 LDS: F15		MDS coin from the Mike Lloyd Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-101, Lloyd-202.		Version 1.325	

**1854-O
WB-7, Arrows**



Obverse 5 (enhanced die cracks in photo at right)



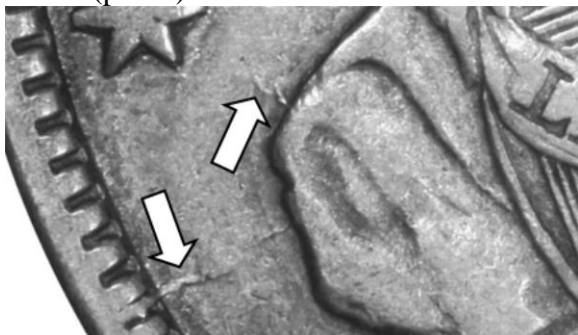
Reverse D (enhanced die cracks in photo at right)

1854-O WB-8, Arrows

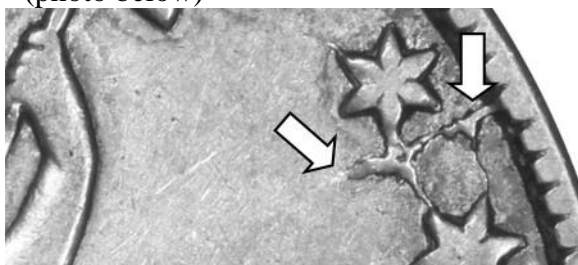
Obverse 6



- Date (photo)



- All examples seen: heavily cracked die prominently from rim at K-7 to rock (photo above) and rim at K-2 near star 10 into field (photo below)

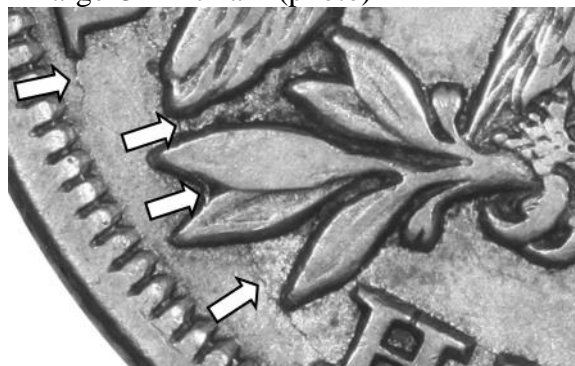


- Other die cracks thru all stars and thru Liberty's right foot and rock support and thru the ribbon

Reverse E



- Large O mintmark (photo)



- All examples seen have some die cracks, first appearing thru the olive leaves (photo). In LDS, the cracks are also thru the denomination and most of the legend and from the rim at K-5 to the middle arrowhead. (See die crack diagrams next page)
- The next use of this reverse die on WB-9 has what Mike Lloyd calls a "Bigfoot N," a small cud on the lower right base of the (U)N(ITED). I am unsure when this cud started; all WB-9s have the cud and I have not seen the cud on a WB-8 coin although it may exist (likely rare if so).

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.213"	Rarity - 4
Drapery die state: Partial	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-203.		Version 1.325	

**1854-O
WB-8, Arrows**



Obverse 6 (enhanced die cracks in photo at right)



Reverse E (enhanced die cracks in photo at right)

1854-O WB-9, Arrows, "Bigfoot N"

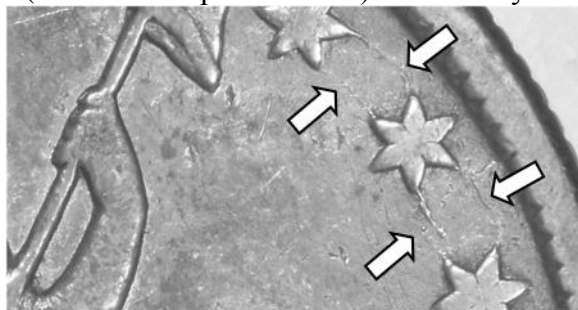
Obverse 5



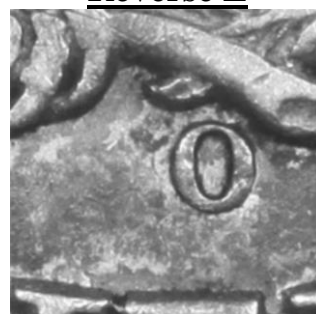
- Date with die crack from the 1's serif to rock support and a radial die crack from rim vertically thru the right arrowhead into the rock support and Liberty's skirt (photo)



- Other die cracks around the circumference: date, foot support (photo above), all stars (stars 9-11 in photo below) and Liberty's cap



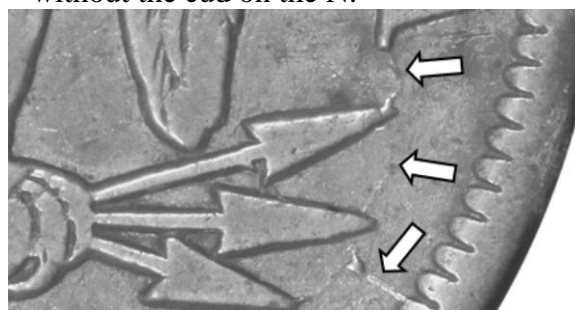
Reverse E



- Large O mintmark (photo)



- A small cud on the bottom left base of the (U)N(ITED) [Mike Lloyd calls this the "Bigfoot N"] is a useful identifier for this die. (photo) This same die was used on WB-8 but I have not seen the cud on that die marriage; this die marriage may exist without the cud on the N.



- All die states: die cracks thru the denomination and most of the legend and from the rim at K-5 to the middle arrowhead (photo)

This is the second use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.209"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse: - Weak; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-204 (Bigfoot N).		Version 1.325	

1854-O
WB-9, Arrows, “Bigfoot N”



Obverse 5 (enhanced die cracks in photo at right)



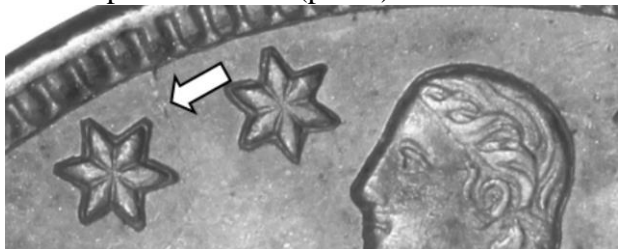
Reverse E (enhanced die cracks in photo at right)

1854-O WB-10, Arrows, “Bigfoot N”

Obverse 7



- Date; tiny rust lump in the recessed area of the tip of the shield (photo)



- Weak radial die cracks from the dentils past star 6 into the field (photo above); another from the dentils past star 12 into the field (photo below)

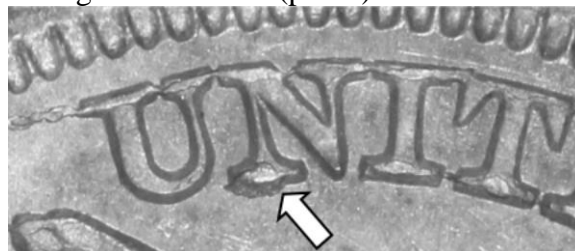


- Scattered tiny rust lumps in the field around stars 10-12

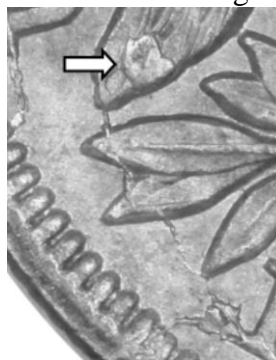
Reverse E



- Large O mintmark (photo)



- A small cud on the bottom left base of the (U)N(ITED) [Mike Lloyd calls this the “Bigfoot N”] is a useful identifier for this reverse die. (photo) The cud also appears on the previous use of this die on WB-9 so check the obverse for proper identification of this die marriage.



- Heavily cracked reverse die around the entire circumference. On high grade coins, two internal cuds are visible on the eagle’s left and right wings (photos above).

This is the first use of this obverse die and third use of this reverse die.

Date grid: M2, .010”	143 reeds	Typical diameter = 1.209”	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-205.		Version 1.325	

1854-O

WB-10, Arrows, "Bigfoot N"



Obverse 7 (enhanced die cracks in photo at right)



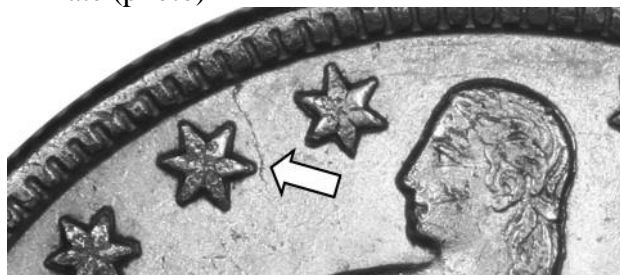
Reverse E (enhanced die cracks in photo at right)

1854-O WB-11, Arrows

Obverse 7



- Date (photo)



- Radial die cracks from the dentils past star 6 into the field (photo above); another from the dentils past star 12 into the field (photo below). These die crack are now much more advanced than with the previous use of this die on WB-10.

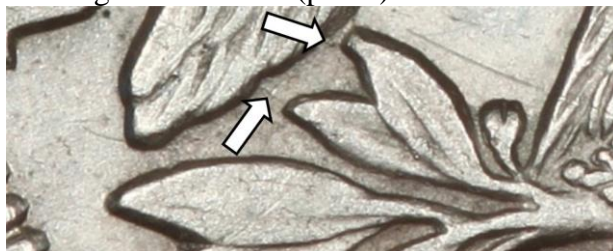


- Other die cracks thru stars 8 to cap thru stars 9-13; another weaker die crack from the tip of the rock to star 1

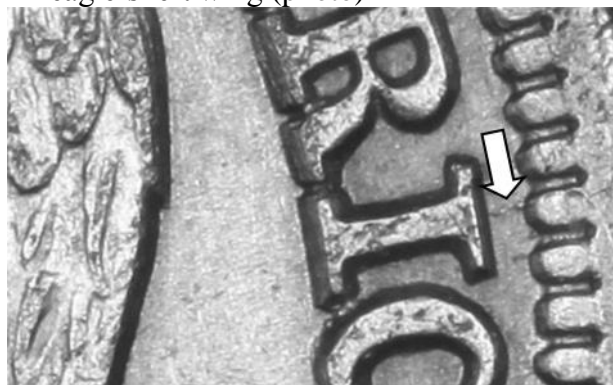
Reverse F



- Large O mintmark (photo)



- Rust lump at the tip of olive leaf #5 and a die line from the tip of olive leaf #4 to the eagle's left wing (photo)



- Die crack from the dentil to (AMER)I(CA) (photo)
- Scattered rust lumps within the shield's upper right and above UNIT(ED)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-206.		Version 1.325	

1854-O
WB-11, Arrows



Obverse 7 (enhanced die cracks in photo at right)



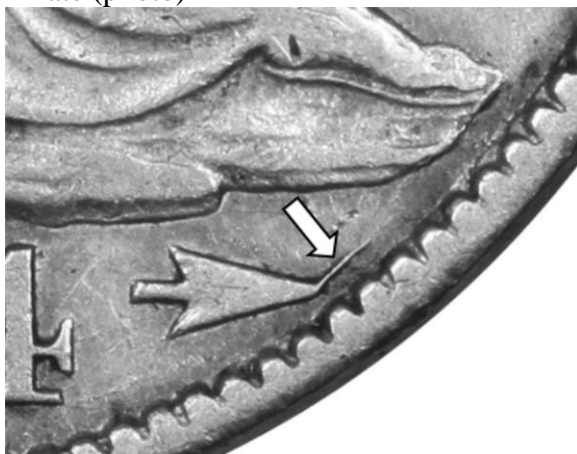
Reverse F (enhanced die cracks in photo at right)

1854-O WB-12, Arrows

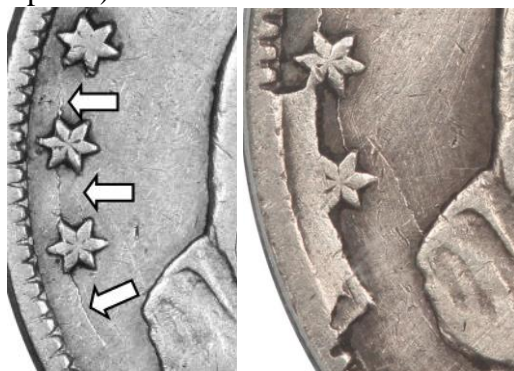
Obverse 8



- Date (photo)



- All examples seen: heavily cracked thru all stars, date, and arrowheads (right arrowhead in photo)

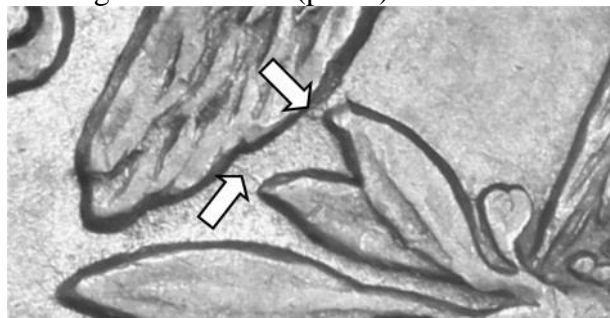


- VLDS: cud at stars 1-3 (LDS photo above left, VLDS photo above right)

Reverse F



- Large O mintmark (photo)



- Rust lump at the tip of olive leaf #5 and a die line from the tip of olive leaf #4 to the eagle's left wing (photo)



- Die cracks along the base of letters of the legend and denomination; HALF (photo)

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3 VLDS with cud: Rarity - 6
Draper die state: Partial	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF40		LDS coin from the Mike Lloyd Collection VLDS coin from the Dick Osburn Collection	
Cross reference: WB-101, Lloyd-207.		Version 1.325	

**1854-O
WB-12, Arrows**



Obverse 8 (enhanced die cracks in photo at right)



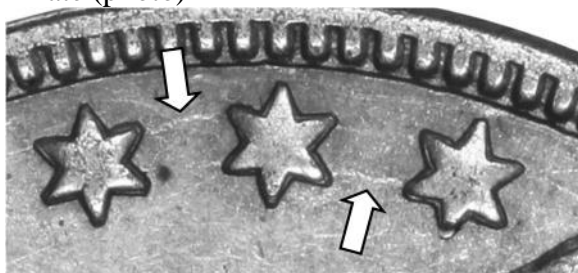
Reverse F (enhanced die cracks in photo at right)

1854-O WB-13, Arrows

Obverse 9



- Date (photo)

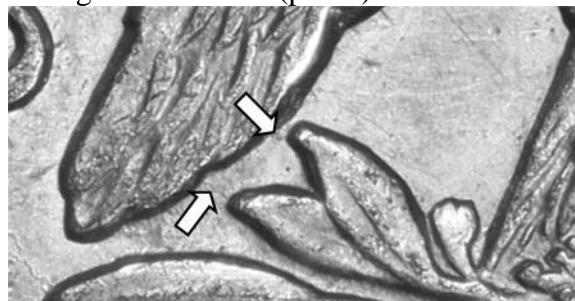


- All examples seen: die cracks thru all the stars, date, arrowheads, and right rock support (stars 5-7 in photo)

Reverse F



- Large O mintmark (photo)



- Rust lump at the tip of olive leaf #5 and a die line from the tip of olive leaf #4 to the eagle's left wing (photo)



- Die cracks around the entire circumference; HALF with rim cud below (HAL)F (photo)



- Heavy die cracks along UNIT(ED) (photo)

This is the first use of this obverse die and third use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 4
Dravery die state: Partial	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-208.		Version 1.325	

1854-O
WB-13, Arrows



Obverse 9 (enhanced die cracks in photo at right)



Reverse F (enhanced die cracks in photo at right)

1854-O WB-14, Arrows

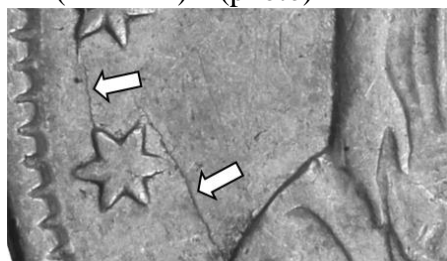
Obverse 10



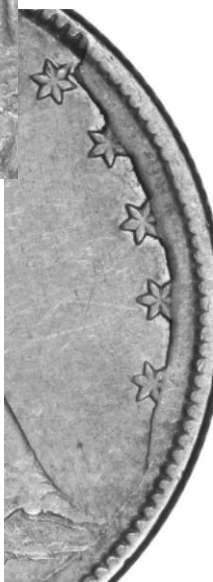
- Date (photo)



- Raised lump in shield's recessed area above (LIBERTY) (photo)



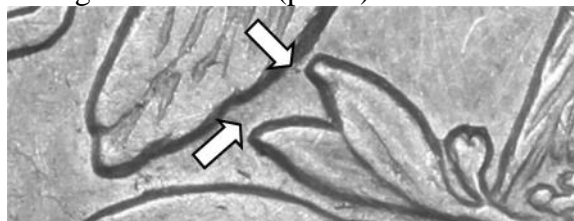
- All examples seen: die cracks around the entire circumference; rock support to star 1 (photo above)
- Rust lumps throughout Liberty
- Extremely rare VLDS: cud thru stars 9-13 (photo at right)



Reverse F



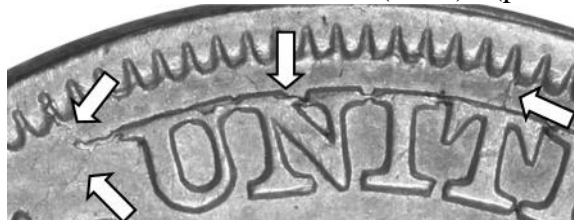
- Large O mintmark (photo)



- Rust lump at the tip of olive leaf #5 and a die line from the tip of olive leaf #4 to the eagle's left wing (photo)



- Die cracks around the entire circumference; HALF with rim cud below (HAL)F (photo)



- Heavy die cracks along UNIT(ED) (photo)

This is the only use of this obverse die and fourth use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.203"	Rarity - 3 VLDS with cud: Rarity - 7
Drapery die state: Partial	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: VF35		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-209.		Version 1.325	

**1854-O
WB-14, Arrows**



Obverse 10 (enhanced die cracks in photo at right)



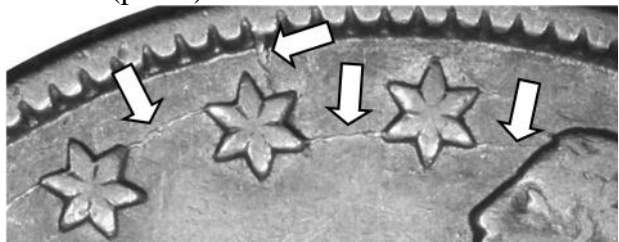
Reverse F (enhanced die cracks in photo at right)

1854-O WB-15, Arrows

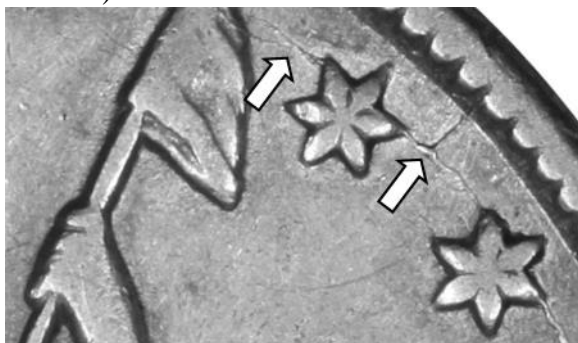
Obverse 9



- Date (photo)



- All examples seen: die cracks around the entire circumference, more advanced than the first use of this die with WB-13; stars 5-7 with radial crack from dentil to star 6 (photo above) and another radial die crack from dentil into field between stars 9-10 (photo below)

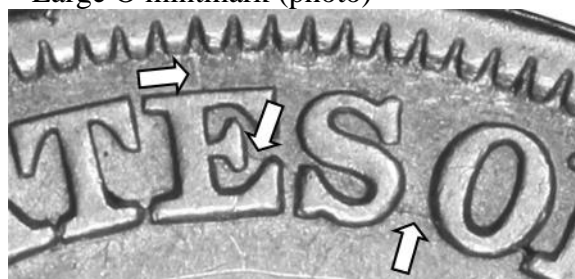


- Clash lines in the area of the drapery below Liberty's elbow

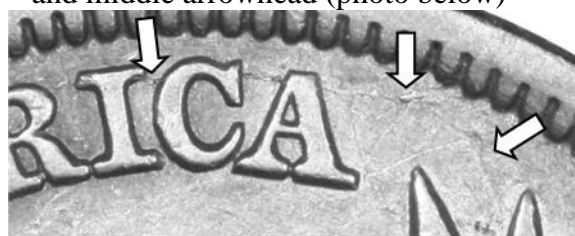
Reverse G



- Large O mintmark (photo)



- All examples seen: arching die crack from dentil thru (STA)TES OF (photo above) and along top of letters (AMER)ICA to dentil and middle arrowhead (photo below)



- Other die cracks thru denomination

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
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Drapery die state: None	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full
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Grade of coin depicted: XF45	Coin from the Mike Lloyd Collection
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Cross reference: WB-101, Lloyd-210, <i>Gobrecht Journal</i> #111, pages 31-36.	Version 1.325
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**1854-O
WB-15, Arrows**



Obverse 9 enhanced die cracks in photo at right)



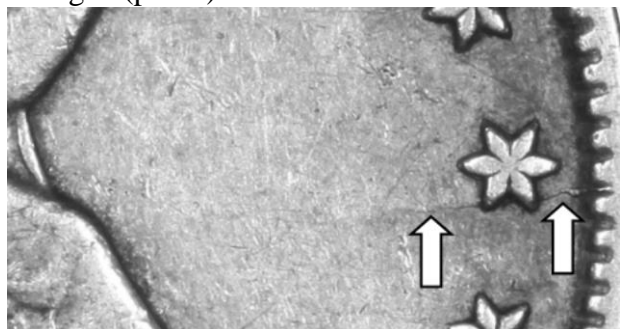
Reverse G (enhanced die cracks in photo at right)

1854-O WB-16, Arrows

Obverse 11



- Date with die crack along the base of all digits (photo)



- All examples seen: radial die crack from dentil at K-3 along star 12 into field (photo)

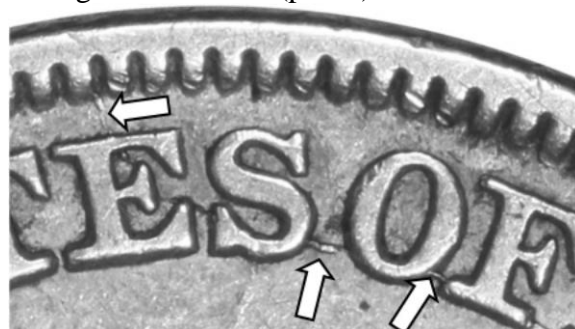


- High grade coins only: rim cud between stars 9-10 (photo)
- Die rust marks throughout Liberty

Reverse G



- Large O mintmark (photo)



- On all examples (since these die cracks are on the previous use of this die): arching die crack from dentil thru (STA)TES OF (photo above) and along top of letters (AMER)ICA to dentil and upper arrowhead (photo below)



- Other die cracks thru denomination

This is the only use of this obverse die and second use of this reverse die.

This die marriage has a rare 148 reed count collar, one of the two die marriages in 1854-O.

Date grid: M2, .010"	148 reeds	Typical diameter = 1.203"	Rarity - 5
Drapery die state: Full	Foot support: Weak	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-211 ₁ .		Version 1.325	

**1854-O
WB-16, Arrows**



Obverse 11 (enhanced die cracks in photo at right)



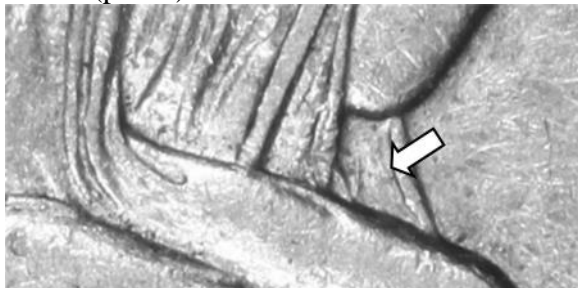
Reverse G (enhanced die cracks in photo at right)

1854-O WB-17, Arrows

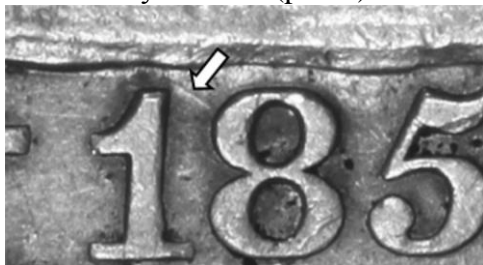
Obverse 12



- Date (photo)



- Diagonal (NW to SE) die line in the drapery below Liberty's elbow (photo)

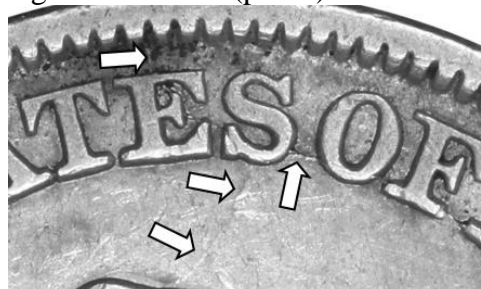


- Diagonal die line (NW to SE) in the upper field between 18(54) and the rock support (photo)

Reverse G



- Large O mintmark (photo)



- On all examples (since this die crack is on the previous uses of this die): arching die crack from dentil thru (STA)TES OF (photo above) (now also from (STATE)S to the eagle's head to the eagle's left wing; also, die cracks thru most of the legend and denomination



- Radial die crack from the dentil thru (D)O(L) thru olive stem to eagle's talon (photo)

This is the only use of this obverse die and third use of this reverse die.

This is a new unlisted die marriage discovered at the 2012 Half Dollar Summit by Randy Wiley. It was an overlooked sub-variety among Mike Lloyd's coins as a Lloyd-211.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 5
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-Unlisted, now called 211 ₂ .			Version 1.325

**1854-O
WB-17, Arrows**



Obverse 12



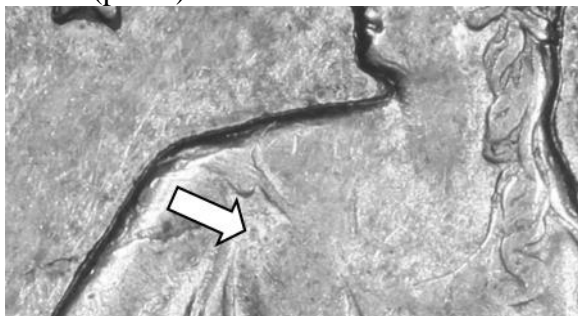
Reverse G (enhanced die cracks in photo at right)

1854-O WB-18, Arrows

Obverse 13



- Date (photo)

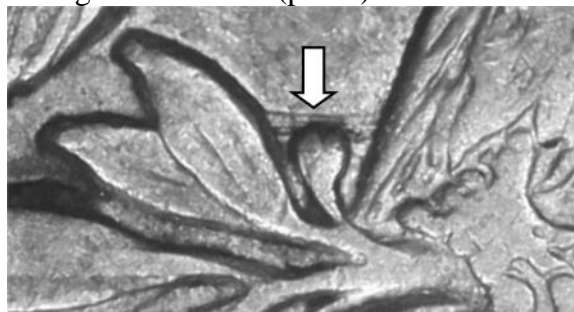


- Lump in gown on Liberty's left shoulder below the gown clasp (photo). This lump will not be visible on low grade coins; unfortunately, there are no other usable diagnostics for this die.

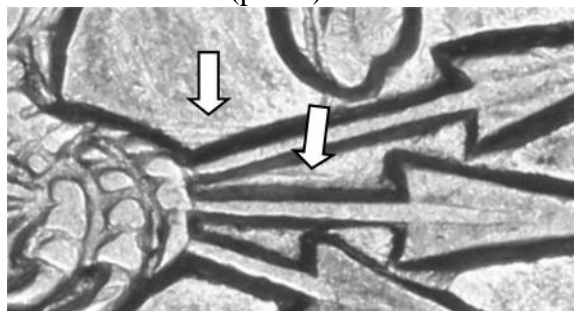
Reverse H



- Large O mintmark (photo)



- Horizontal die lines thru the upper olive leaves and bud (photo)



- Horizontal die lines thru the upper arrows (photo) and talons

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-301.		Version 1.325	

1854-O
WB-18, Arrows



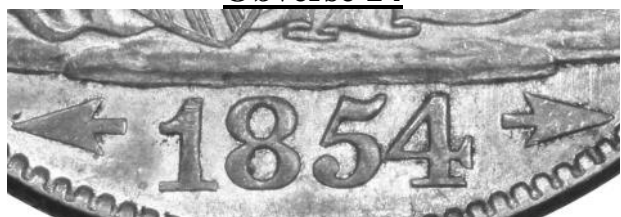
Obverse 13



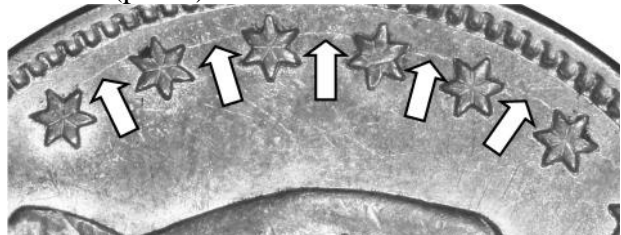
Reverse H

1854-O WB-19, Arrows

Obverse 14



- Date (photo)



- All examples seen: die cracks starting thru stars 1-7 (photo) and later thru stars 10-12 and left arrowhead to rim to left of rock (VLDS see below)

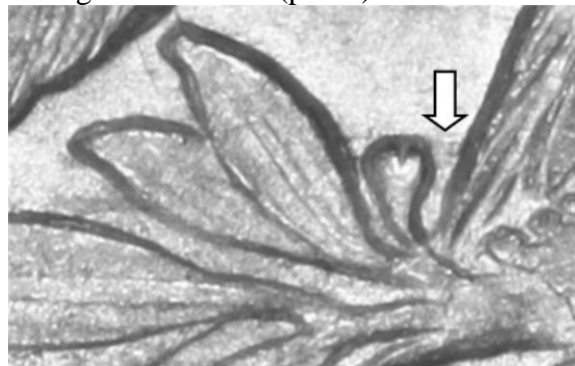


- Rare VLDS: die crack along the base of the date and a heavy die crack from the field to the left of the 1(854) thru the left arrowhead along the base of the rock support to dentils to left of rock (photo)

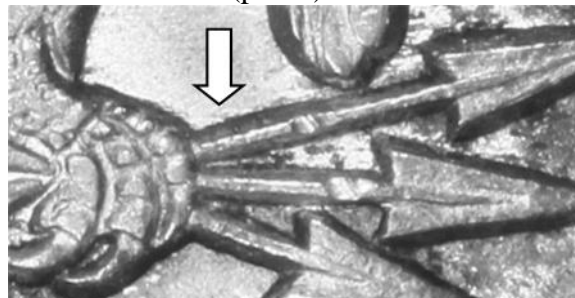
Reverse H



- Large O mintmark (photo)



- Horizontal die lines thru the upper olive leaves and bud (photo)



- Horizontal die lines thru the upper arrows (photo) and talons now much weaker than seen on WB-18. In LDS of this die marriage, these lines are not visible.
- Radial die crack from the dentil thru the left upright of (AM)E(RICA) to the right wing

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coins depicted: AU58 VLDS: holed VF20		Coins from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-302.		Version 1.325	

**1854-O
WB-19, Arrows**



Obverse 14 (enhanced die cracks in photo at right)



Reverse H (enhanced die cracks in photo at right)

1854-O WB-20, Arrows

Obverse 14



- Date right (photo)



- Die crack along the base of the date and a heavy die crack from the field to the left of the 1(854) thru the left arrowhead along the base of the rock support to dentils to left of rock (photo)
- Other die cracks thru most of the stars (see next page for die crack diagram)

Reverse I



- Large O mintmark (photo)
- Weak die crack along the base or top of most of the letters of the legend (see next page for die crack diagram)
- Clash in shield's lower right
- Very rusty die; some devices and letters distorted and fuzzy (see photo next page)

This is the second use of this obverse die and only use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.199"	At least Rarity - 5
Draperies die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: VF35		Coin from the Pete LaConte Collection	
Cross reference: WB-101, Lloyd-Unlisted (new Lloyd-303).		Version 1.325	

**1854-O
WB-20, Arrows**



Obverse 14 (enhanced die cracks in photo at right)



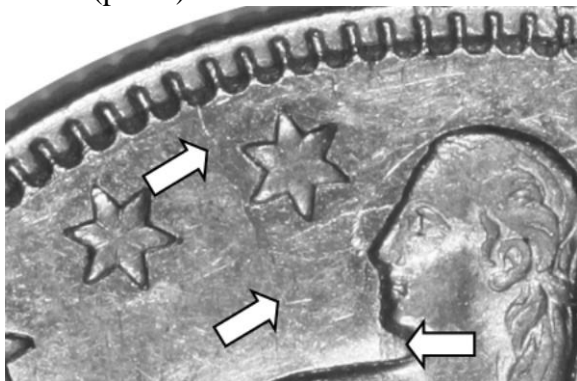
Reverse I (enhanced die cracks in photo at right)

1854-O WB-21, Arrows

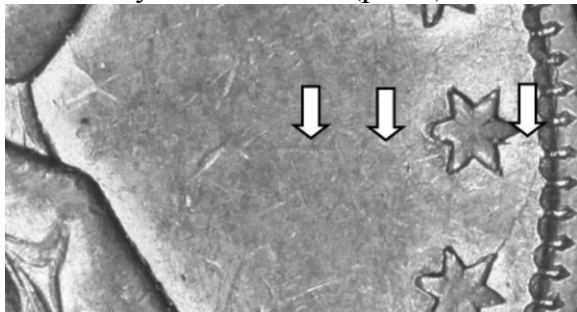
Obverse 15



- Date (photo)



- Vertical parallel die lines under Liberty's chin; die crack from dentil at K-11 near star 6 to Liberty's left shoulder (photo)



- MDS to LDS: radial die crack from rim thru stars 12 into field (photo); other die cracks thru stars 2-3, 9-13 to Liberty's instep
- MDS to LDS: clash marks in left and right field and in the drapery below Liberty's elbow

Reverse J



- Large O mintmark (photo)



- Parallel die lines beneath the letters HALF (photo)



- Scattered die lines between top of letters UNIT(E)D and the dentils (photo)
- MDS to LDS: die cracks along the top of letters UNIT(ED), (AME)RICA, and along the bottom of letters of the denomination

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-501.		Version 1.325	

**1854-O
WB-21, Arrows**



Obverse 15 (die cracks in photo at right)



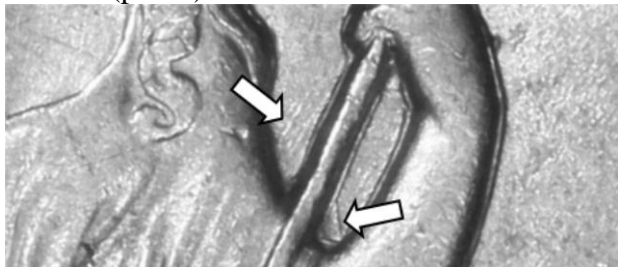
Reverse J (enhanced die cracks in photo at right)

1854-O WB-22, Arrows

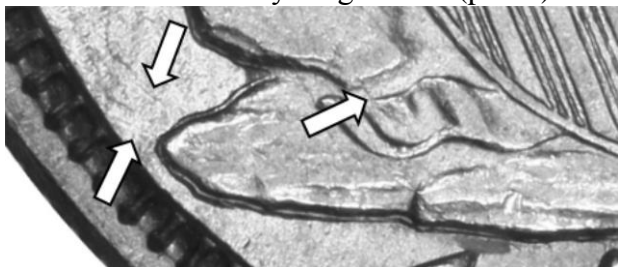
Obverse 16



- Date (photo)



- Die lines in the fields on both sides of the staff below Liberty's right hand (photo)



- LDS: die crack thru ribbon and also from left end of the rock support into the field (photo)
- Weak vertical die lines in Liberty's lap

Reverse J



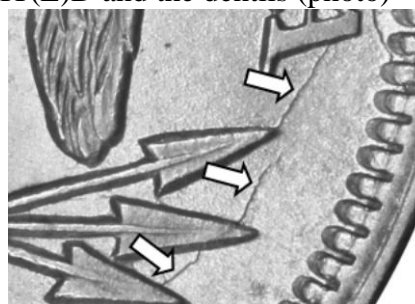
- Large O mintmark (photo)



- Parallel die lines beneath the letters HALF (photo)



- Scattered die lines between top of letters UNIT(E)D and the dentils (photo)



- All die states: die cracks thru all letters of the legend and denomination and also the arrowheads (photo)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-502.		Version 1.325	

**1854-O
WB-22, Arrows**



Obverse 16



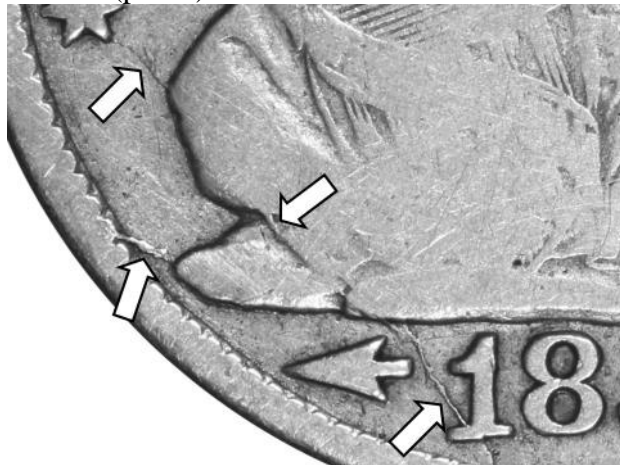
Reverse J (enhanced die cracks in photo at right)

1854-O WB-23, Arrows

Obverse 16



- Date (photo)



- All die states: die crack from the dentil below 1(854) up thru the rock support to the rim at K-7 and another thru the rock to star 1 (photo)
- The die lines in the fields on both sides of the staff below Liberty's right hand seen in the previous use of this die (WB-22) are very weak on this die marriage.

Reverse K



- Large O mintmark (photo)
- Very weak, barely visible diagonal (NW to SE) die lines in the shield's lower recessed area. No other discernible die diagnostics; a high grade example of this die marriage needs to be found and scrutinized.

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 6
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Weak; Reverse - Full	
Grade of coin depicted: VG8		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-801.		Version 1.325	

**1854-O
WB-23, Arrows**



Obverse 16 (enhanced die cracks in photo at right)



Reverse K

1854-O WB-24, Arrows

Obverse 17



- Date (photo)



- EDS: uncracked. LDS: die cracks from serif of the 1(854) into the rock support and ribbon thru the rock to stars 1-3 (photo). Most examples of this die marriage seen are EDS.



- Rare VLDS: cud forming between stars 1-3 and dentils (photo)

Reverse K



- Large O mintmark (photo)



- All EDS examples seen: die cracks along the top of letters UNITED and along the base of HAL(F) (photo)



- Rare VLDS: cud forming between the top of letters UNITE(D) and the dentils (photo)

This is the only use of this obverse die and second use of this reverse die.
On example seen with a 20° rotated reverse.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 2
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Weak; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-802.		Version 1.325	

1854-O
WB-24, Arrows



Obverse 17 (enhanced die cracks in photo at right)



Reverse K (enhanced die cracks in photo at right)

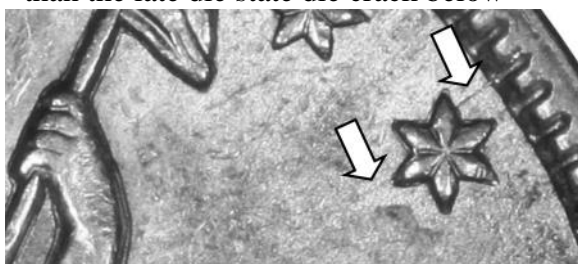
1854-O

WB-25, Arrows, Crumbled Reverse Die

Obverse 18



- Date (photo)
- No easily identifiable die diagnostics other than the late die state die crack below



- LDS: radial die crack from dentil thru star 10 into right field (photo)

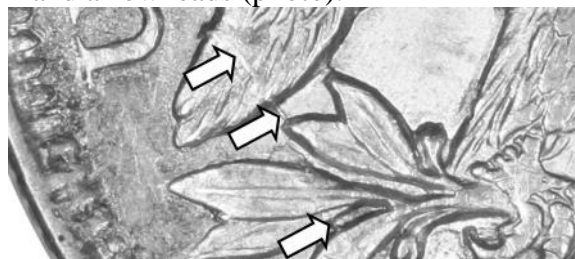
Reverse L



- Large O mintmark (photo)
- This reverse die is fascinating for its deterioration. Known as the “crumbled die” for good reason, even in EDS, this die shows massive effects of stress. For lack of a better description, half dollars from this die have raised splotchy blobs of crusty metal throughout the entire reverse.



- LDS: nearly cud-like encrustation thru UNITE(D), (AME)RICA, reverse shield, and arrowheads (photo).



- VLDS: “orange-peel” die stress surface effect in the fields and die crack thru the olive leaves (photo)

This is the first use of this obverse die and only use of this reverse die.

Date grid: M2, .010”	143 reeds	Typical diameter = 1.212”	Rarity - 2
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Bill Bugert Collection	
Cross reference: WB-101, Lloyd-601.		Version 1.325	

1854-O

WB-25, Arrows, Crumbled Reverse Die



Obverse 18 (enhanced die cracks in photo at right)



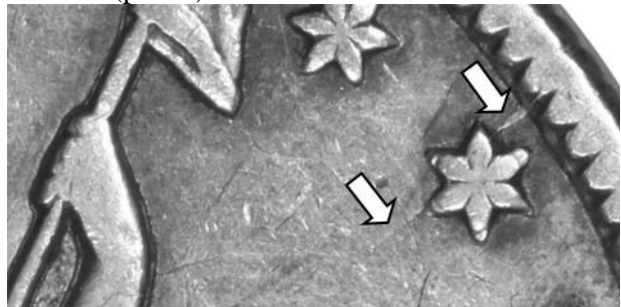
Reverse L (enhanced die cracks in photo at right)

1854-O WB-26, Arrows

Obverse 18



- Date (photo)

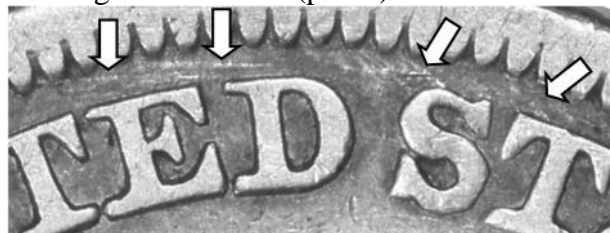


- All die states: since it appears on the previous use of this obverse die (WB-25), all examples of this die marriage will have a radial die crack from dentil thru star 10 into right field (photo)

Reverse M



- Large O mintmark (photo)



- All examples seen: scattered die lines above (UNIT)ED ST(ATES) in the recessed area between the letters and dentils (photo). These lines appear on coins grading as low as VG8.
- Very weak shield vertical line A1

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 4
Draperies die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: VF20		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-602.		Version 1.325	

**1854-O
WB-26, Arrows**



Obverse 18 (enhanced die cracks in photo at right)



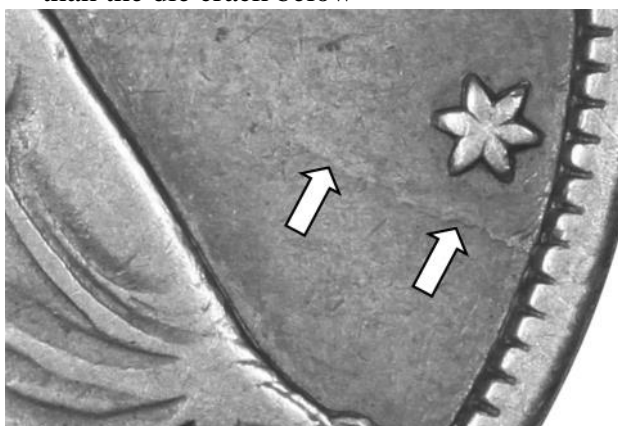
Reverse M

1854-O WB-27, Arrows

Obverse 19

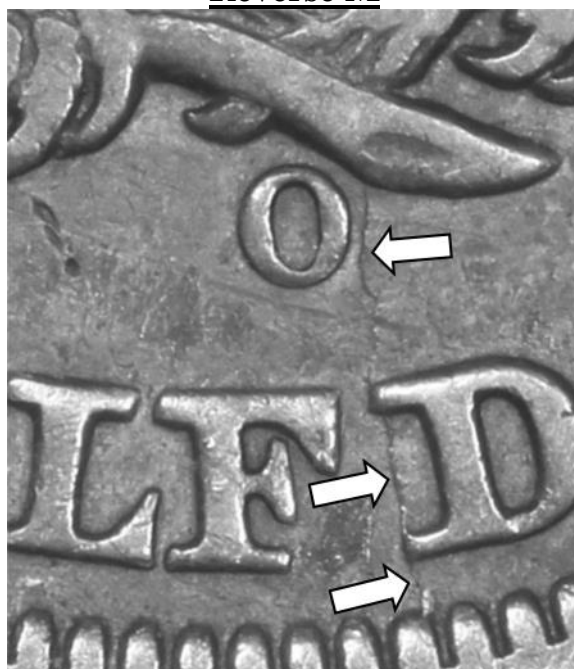


- Date (photo)
- No easily identifiable die diagnostics other than the die crack below

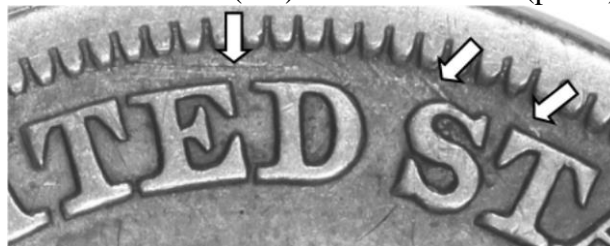


- Only example seen: radial die crack from dentil near star 13 into field (photo)
- Clash lines in the drapery below Liberty's elbow

Reverse M



- Large O mintmark; only example seen: radial die crack from dentil along the left serifs of the D(OL) to the olive stem (photo)



- Only example seen: scattered die lines above (UNIT)ED ST(ATES) in the recessed area between the letters and dentils (photo)
- Very weak shield vertical line A1
- Clash in shield's lower right

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 5
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: VF25		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-603.		Version 1.325	

**1854-O
WB-27, Arrows**



Obverse 19 (enhanced die cracks in photo at right)



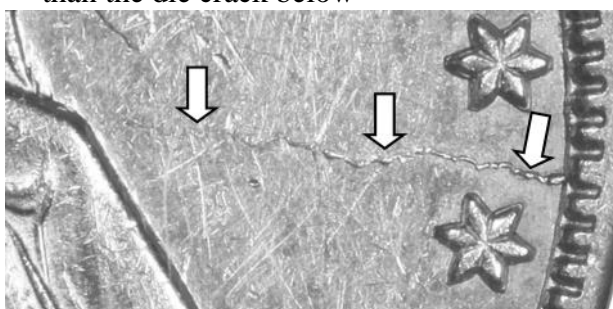
Reverse M (enhanced die cracks in photo at right)

1854-O WB-28, Arrows

Obverse 20



- Date (photo). Note: jumbled lines on the date are deep scratches on the slab.
- No easily identifiable die diagnostics other than the die crack below



- All examples seen: radial die crack from the dentil between stars 12-13 into field towards Liberty's right knee (photo)
- Clash marks in the drapery below Liberty's elbow and in the left and right fields

Reverse M



- Large O mintmark; all examples (since it is on the previous use of this die): radial die crack from dentil along the left serifs of the D(OL) to the olive stem (photo)



- Scattered die lines above (UNIT)ED ST(ATES) in the recessed area between the letters and dentils (photo)
- Very weak shield vertical line A1
- Multiple clash marks in shield's lower right and in the fields

This is the only use of this obverse die and third use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: NGC AU55		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-604.		Version 1.325	

**1854-O
WB-28, Arrows**



Obverse 20 (enhanced die cracks in photo at right)



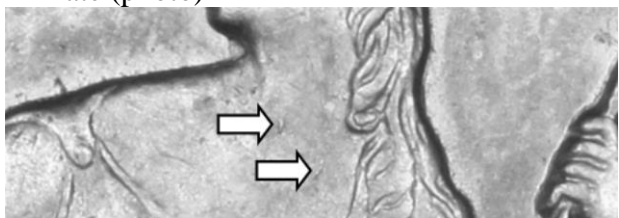
Reverse M (enhanced die cracks in photo at right)

1854-O WB-29, Arrows

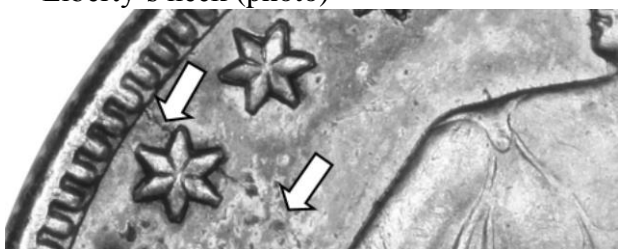
Obverse 21



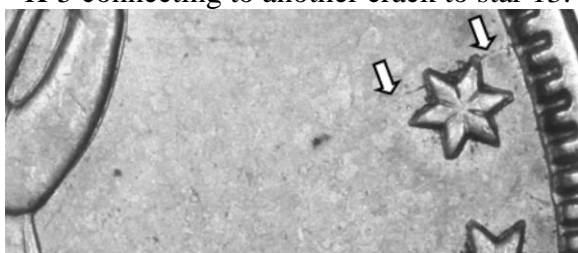
- Date (photo)



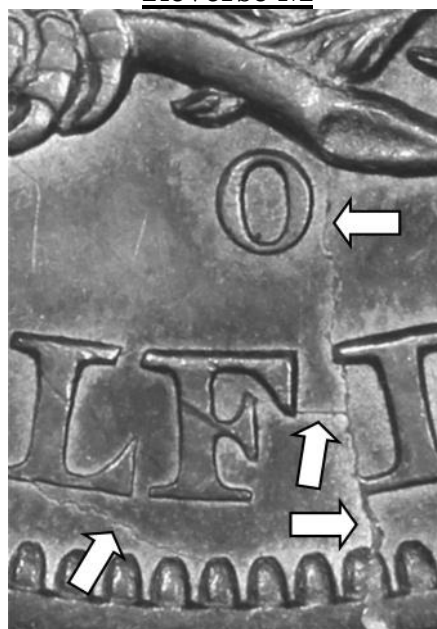
- High grade coins only: two small lumps on Liberty's neck (photo)



- All examples seen: radial die crack from dentil thru star 4 to Liberty's left arm (photo above); another radial die crack from dentil thru star 11 into field (photo below). Another die crack along rock support to Liberty's skirt thru the instep to the dentil at K-5 connecting to another crack to star 13.



Reverse M



- Large O mintmark: radial die crack from rim along the left serifs of the D(OL) to the olive stem (photo above). Other die cracks thru the denomination, legend, arrowheads and olive leaves (photo below).



- The scattered die lines above (UNIT)ED ST(ATES) in the recessed area between the letters and dentils seen on previous uses of his die are not now visible.
- Very weak shield vertical line A1
- Multiple clash marks in shield's lower right and in the fields

This is the only use of this obverse die and fourth use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-605.		Version 1.325	

1854-O
WB-29, Arrows



Obverse 21 (enhanced die cracks in photo at right)



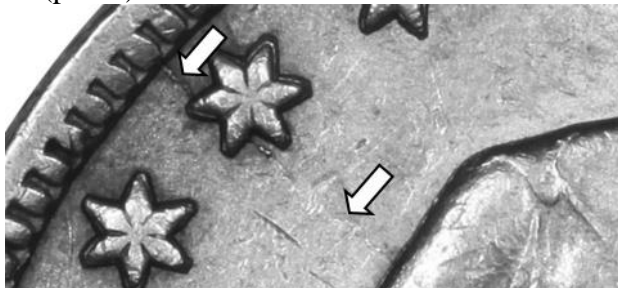
Reverse M (enhanced die cracks in photo at right)

1854-O WB-30, Arrows

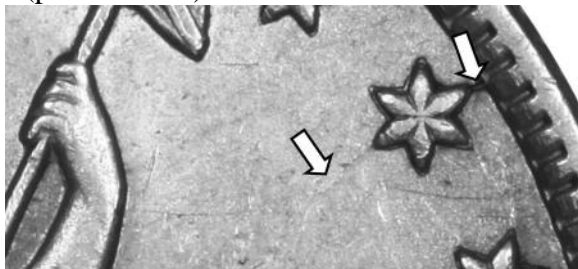
Obverse 22



- Date; all examples seen: radial die crack thru the right side of the (18)5(4) in the date (photo)



- LDS: radial die crack from dentil thru star 5 to Liberty's left arm (photo above); another radial die crack from dentil thru star 10 (photo below)

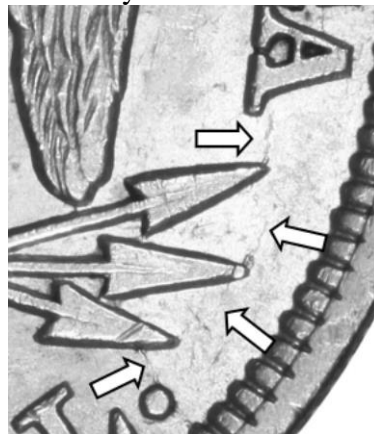


- LDS: other die cracks from the base of the 1(854) thru the left arrowhead to the left rock support and rock to star 1 and stars 1-3; another thru stars 4-13

Reverse N



- Large O mintmark (photo)
- All examples seen: weak eagle's left leg and feathers to left of the shield
- EDS: no readily identifiable die diagnostics



- LDS: die crack from the dentil below (DOL) to the lower arrowhead along the arrowhead tips to (AMERICA) (photo)

This is the only use of this obverse die and first use of this reverse die.

Date grid: M1.5, .018"	143 reeds	Typical diameter = 1.208"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-701.		Version 1.325	

1854-O
WB-30, Arrows



Obverse 22 (enhanced die cracks in photo at right)



Reverse N (enhanced die cracks in photo at right)

1854-O WB-31, Arrows

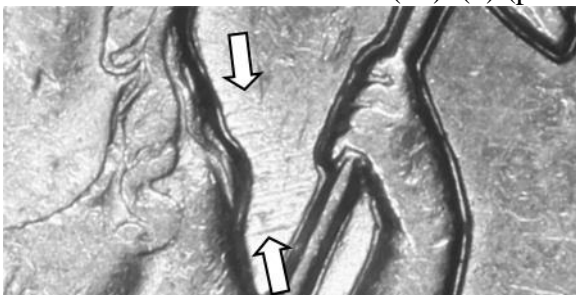
Obverse 23



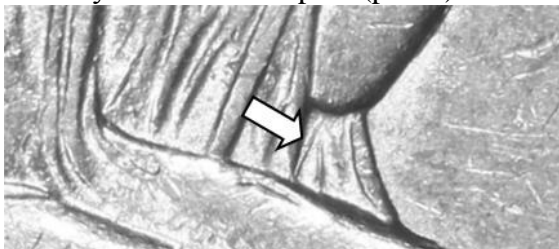
- Date (photo)



- Vertical die line thru the (185)4; a few scattered die lines above the (18)5(4) (photo)



- Horizontal die lines in the field between Liberty's hair and the pole (photo)

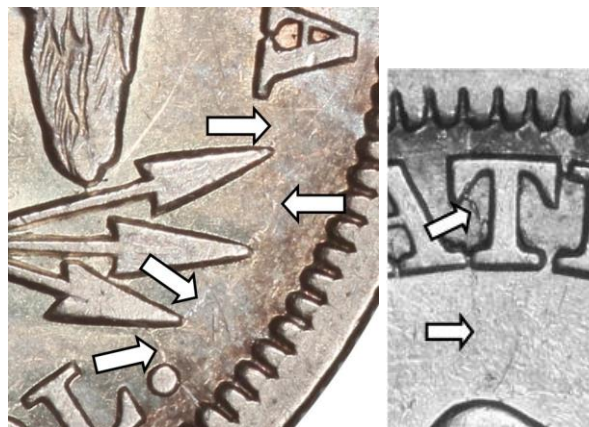


- Nearly vertical die line in the drapery below Liberty's right elbow (photo)

Reverse N



- Large O mintmark (photo)
- All examples seen: weak eagle's left leg and feathers to left of the shield



- All die states: die crack from the dentil below (DOL) to the lower arrowhead tips to (AMERICA) (photo above left) and a radial die crack from dentil thru (STA)T(ES) to the eagle's beak (photo above right)
- Other die cracks thru legend and olive leaves

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.204"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101, Lloyd-702.		Version 1.325	

**1854-O
WB-31, Arrows**



Obverse 23



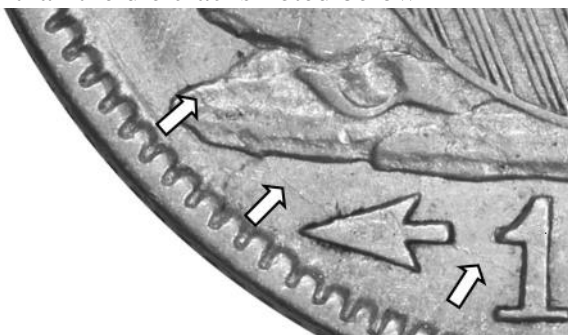
Reverse N (enhanced die cracks in photo at right)

1854-O WB-32, Arrows

Obverse 24



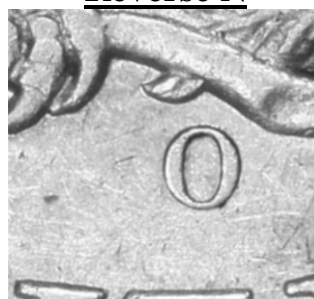
- Date (photo)
- No readily discernible die diagnostics other than the die cracks noted below



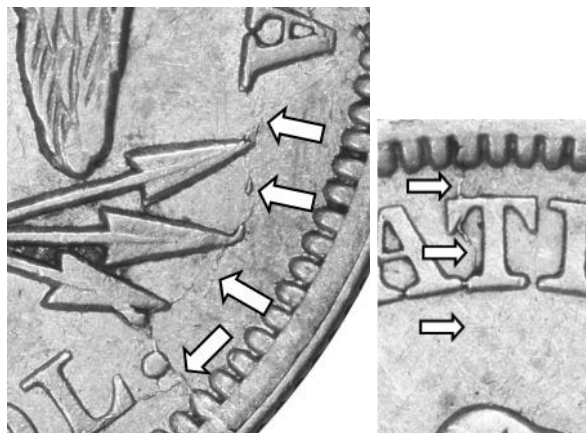
- All examples seen: die crack along the base of the digits of the date, thru the left arrowhead to rock support (photo above), and thru stars 1-7 and 12-13; very weak radial die crack from dentil into star 9. The heaviest die crack is thru stars 4-7 (photo below).



Reverse N



- Large O mintmark (photo)
- All examples seen: weak eagle's left leg and feathers to left of the shield



- The die cracks seen on previous uses of this die (WB-30 and 31) are now much more advanced. Die crack from the dentil below (DOL) to the lower arrowhead along the arrowhead tips to (AMERICA) and a radial die crack from dentil thru (STA)T(ES) to the eagle's beak (photo above right)
- Other die cracks thru legend, denomination, and olive leaves

This is the only use of this obverse die and third use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-703.		Version 1.325	

**1854-O
WB-32, Arrows**



Obverse 24 (enhanced die cracks in photo at right)



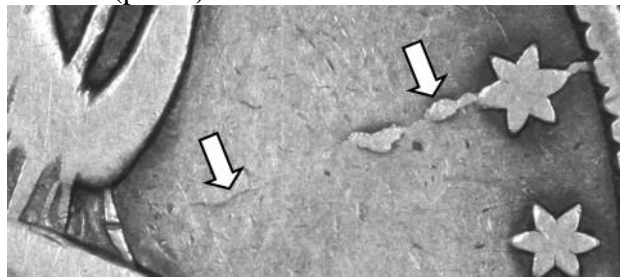
Reverse N (enhanced die cracks in photo at right)

1854-O WB-33, Arrows

Obverse 25



- Date (photo)

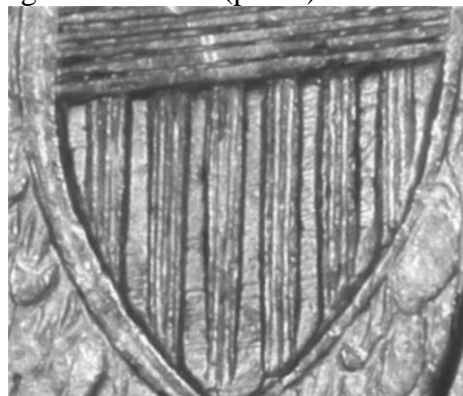


- MDS-LDS: radial die crack from rim thru star 11 into field towards the drapery below Liberty's elbow (photo); all examples seen have some die cracking thru star 11 but most are minimal.

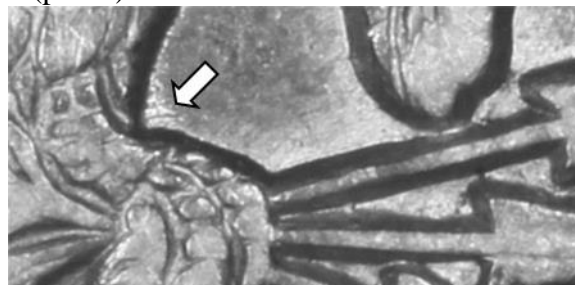
Reverse O



- Large O mintmark (photo)



- All examples seen: many horizontal die lines in the shield's lower recessed area (photo)



- Horizontal die lines protruding from the eagle's right leg into the field (photo)

This is the first use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Weak; Reverse - Full	
Grade of coin depicted: VF20		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-901.		Version 1.325	

**1854-O
WB-33, Arrows**



Obverse 25 (enhanced die cracks in photo at right)



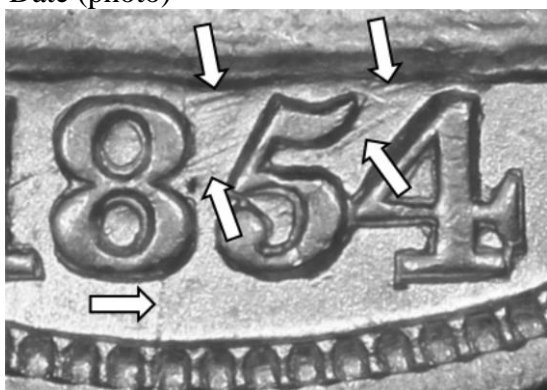
Reverse O (enhanced die cracks in photo at right)

1854-O WB-34, Arrows

Obverse 26



- Date (photo)



- Scattered die lines thru the (1)854 of the date; radial die crack thru the right side of the (1)8(54) (photo)



- Horizontal die lines between the dentils and stars 6-7 (photo)

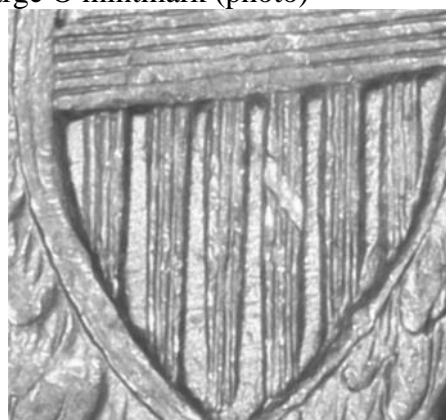


- Many rust lumps around cap (photo)

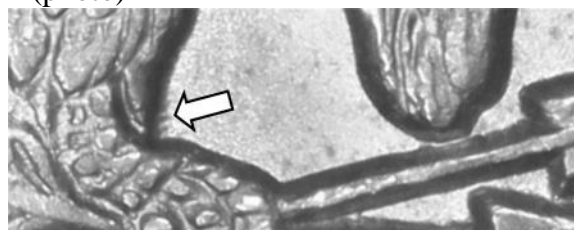
Reverse O



- Large O mintmark (photo)



- All examples seen: many horizontal die lines in the shield's lower recessed area (photo)



- Horizontal die lines protruding from the eagle's right leg into the field (photo)
- High grade examples only: rim cud at K-5 below DOL (see photo next page)

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.214"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-902.		Version 1.325	

1854-O
WB-34, Arrows



Obverse 26



Reverse O

1854-O

WB-35, Arrows, Filled 54

Obverse 27

- Three distinct die states with die lines and die crumbling in and thru the date:



- EDS: scattered die lines thru the date, no evidence of crumbling die (photo)



- MDS: both scattered die lines and “crud” in the (18)5(4) of the date (photo)

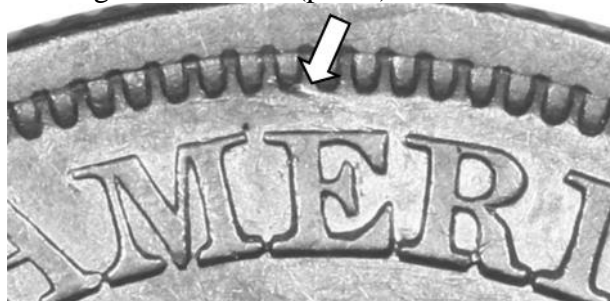


- LDS: crumbling die (18)54 of the date (photo)
- All die states (weaker in LDS): heavy radial die line from the dentils along the right side of star 8
- VLDS: “orange peel” effect around date

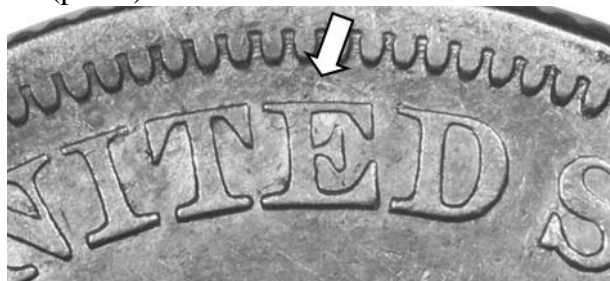
Reverse P



- Large O mintmark (photo)



- All die states: die line above (AM)E(RICA) (photo)



- EDS to MDS: die line above (UNIT)E(D) (photo)

This is the first use of this obverse die and first use of this reverse die.

The rarities of each of the three die states are currently unknown; additional study is required.

Date grid: M2, .010”	143 reeds	Typical diameter = 1.207”	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: EDS - AU50 MDS - XF45, LDS - XF40		Coins from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-903.		Version 1.325	

1854-O
WB-35, Arrows, Filled 54



Obverse 27



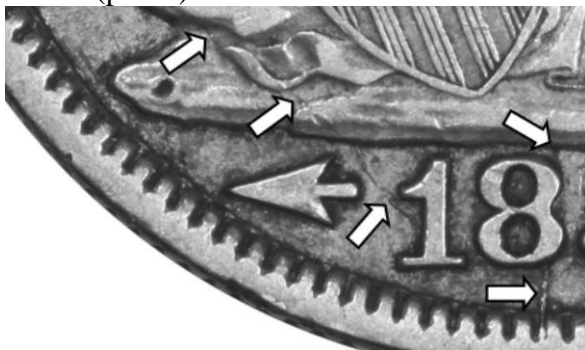
Reverse P

1854-O WB-36, Arrows

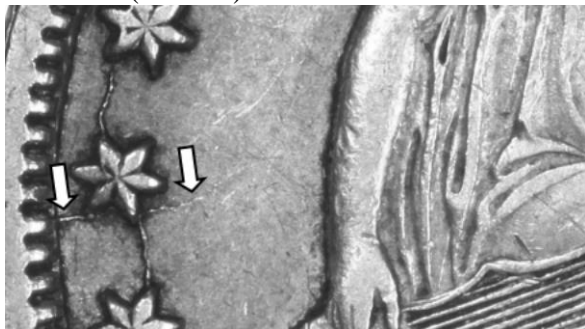
Obverse 26



- Date (photo)



- All die states: radial die crack through the right side of the (1)8(54) (photo) through the rock support to the rock and star 1. The scattered die lines through the (1)854 of the date and above stars 6-7 seen on the previous use of this die (WB-34) are not now visible.

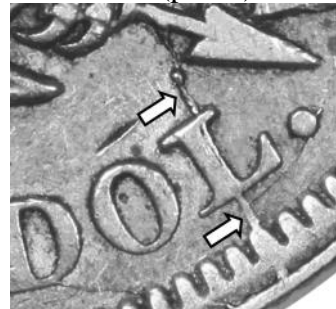


- MDS-LDS: radial die crack from dentil through star 2 into field (photo) and another weaker radial die crack through star 12; other die cracks through stars 1-6

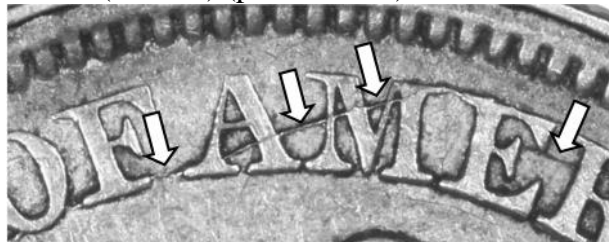
Reverse P



- Large O mintmark (photo)



- All examples seen: since the last use of this die with WB-34, this reverse die is now extensively cracked. Prominently, a radial die crack from the dentil through the (DO)L through the lower arrow shaft and talons to the eagle's right leg (photo above); others diagonally through HALF DOLL and OF AM(ERICA) (photo below)



- Other die cracks through the entire legend and denomination (see die crack diagram on next page)

This is the second use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.211"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-904.		Version 1.325	

1854-O
WB-36, Arrows



Obverse 26 (enhanced die cracks in photo at right)



Reverse P (enhanced die cracks in photo at right)

1854-O

WB-37, Arrows, Filled 54

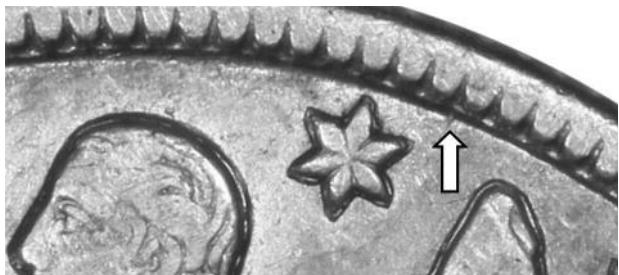
Obverse 27



- Date (photo)



- All die states: crumbling die (18)54 of the date (photo); note the “orange peel” effect around date (photo above) and throughout the lower half of the obverse

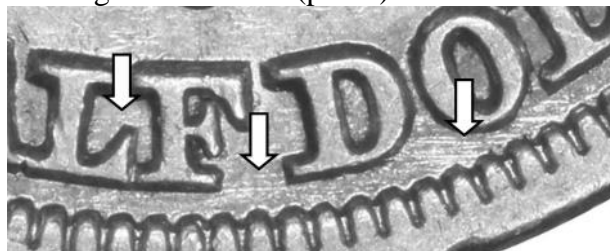


- As seen on the previous use of this die (WB-35), very small radial die line from the dentils along the right side of star 9 (photo)

Reverse Q



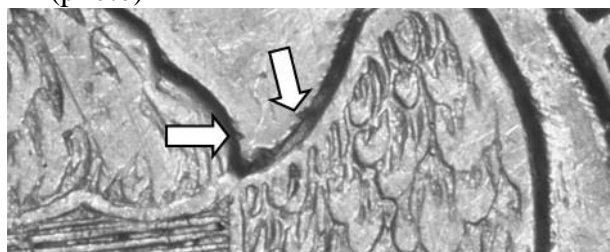
- Large O mintmark (photo)



- Many nearly horizontal die lines thru (HA)LF DOL (photo)



- Many diagonal die lines thru (STA)TES (photo)



- Small tines protruding from the eagle's upper right wing and neck (photo)

This is the second use of this obverse die and only use of this reverse die.

Date grid: M2, .010”	143 reeds	Typical diameter = 1.203”	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-905.		Version 1.325	

1854-O
WB-37, Arrows, Filled 54



Obverse 27



Reverse Q

1854-O

WB-38, Arrows, Filled 54

Obverse 27



- Date (photo)



- All die states: crumbling die (18)54 of the date (photo); note the “orange peel” effect around date (photo above) and throughout the lower half of the obverse
- The very small radial die line from the dentils along the right side of star 9 seen on the previous uses of this die (WB-35 and WB-37) is not visible on this die marriage.



- All examples seen: radial die crack from the dentil between stars 11-12 (photo)

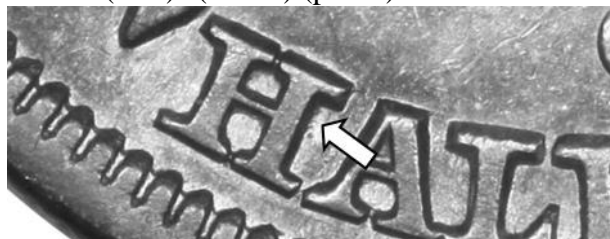
Reverse R



- Large O mintmark (photo)



- Rust lump in the field between the dentil and (AM)E(RICA) (photo)



- Tiny tines from the outside upper right of the H(ALF) (photo)

This is the third use of this obverse die and first use of this reverse die.

Date grid: M2, .010”	143 reeds	Typical diameter = 1.203”	Rarity - 4
Draperies die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-906.		Version 1.325	

1854-O

WB-38, Arrows, Filled 54



Obverse 27 (enhanced die cracks in photo at right)



Reverse R

1854-O WB-39, Arrows

Obverse 28



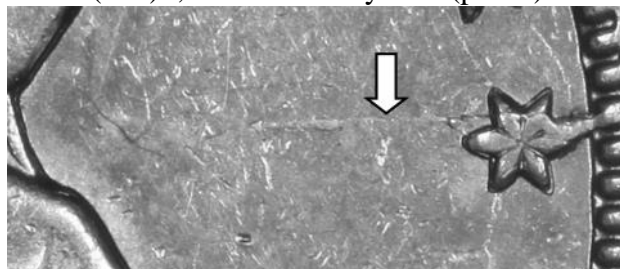
- Date (photo)



- EDS: many crisscrossed die lines in and around the date (photo)



- LDS: vertical die crack thru the left side of the (185)4; no die lines by date (photo)

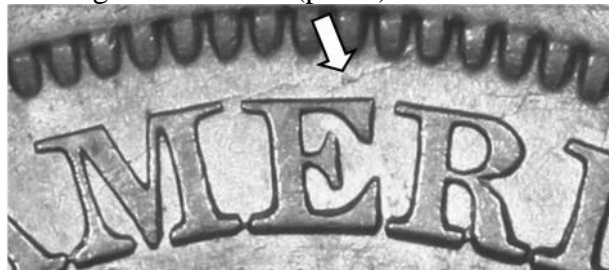


- All die states: radial die crack from the dentil thru star 12 into the right field (photo); most examples seen of this die marriage are an EDS with this die crack very weak.
- Other die cracks as seen on next page

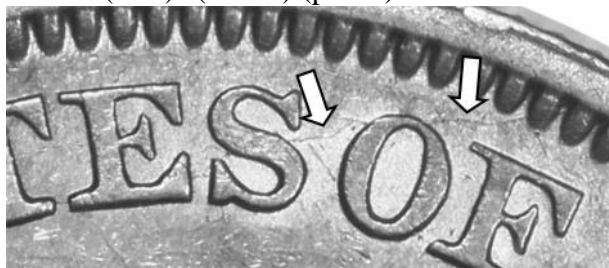
Reverse R



- Large O mintmark (photo)



- Rust lump in the field between the dentil and (AM)E(RICA) (photo)



- Many small die cracks thru the legend, prominently thru (STA)TES OF (photo)
- Top of vertical shield line A-1 missing, A-2 is weak

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	141 reeds	Typical diameter = 1.206"	Rarity - 2
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: EDS: - AU55 LDS: - AU55		EDS coin from the Mike Lloyd Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-907.		Version 1.325	

1854-O
WB-39, Arrows



Obverse 28 (enhanced die cracks in photo at right)



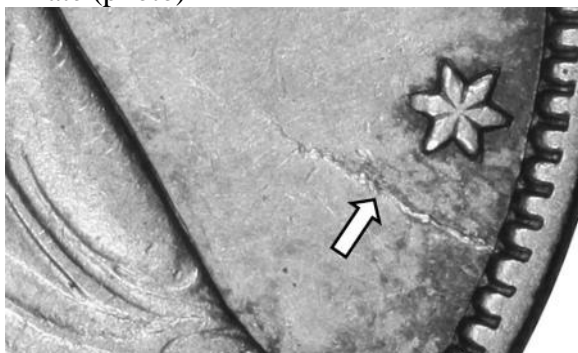
Reverse R (enhanced die cracks in photo at right)

1854-O WB-40, Arrows

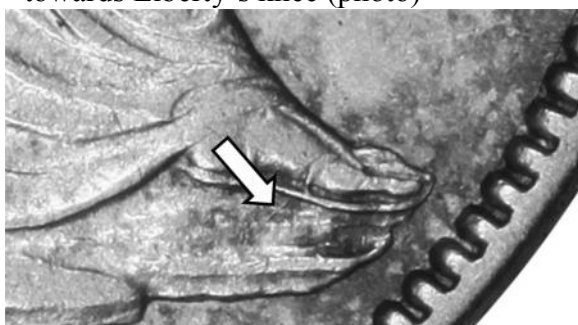
Obverse 29



- Date (photo)



- All examples seen: radial die crack from the dentil at K-4 below star 13 into the field towards Liberty's knee (photo)



- Diagonal (NE to SW) die line in the rock support below Liberty's sandal (photo)

Reverse R



- Large O mintmark (photo)
- The rust lump in the field between the dentil and (AM)E(RICA) seen on the previous uses of this die (WB-38 and WB-39) is extremely weak or not visible in this die marriage.



- Many small die cracks thru the legend, prominently thru (STA)TES OF (photo); another die crack along the top of letters to dentils above (UN)ITED
- Top of vertical shield line A-1 missing, A-2 is weak.

This is the only use of this obverse die and third use of this reverse die.

Date grid: M2, .010"	141 reeds	Typical diameter = 1.201"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-908.		Version 1.325	

**1854-O
WB-40, Arrows**



Obverse 29 (enhanced die cracks in photo at right)



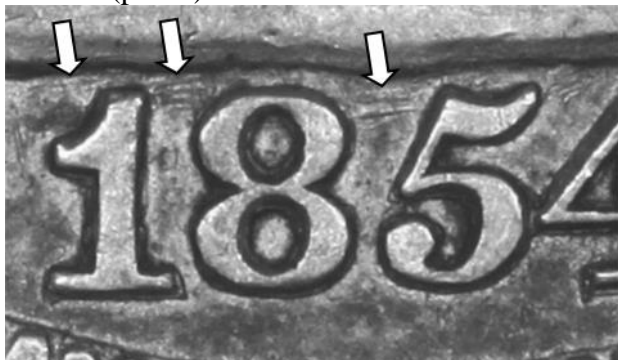
Reverse R (enhanced die cracks in photo at right)

1854-O WB-41, Arrows

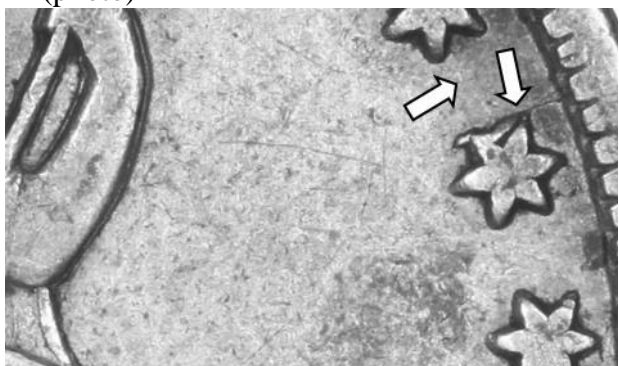
Obverse 30



- Date (photo)

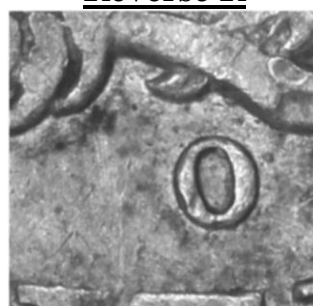


- Many horizontal and few vertical die lines between the rock support and the 185(4) (photo)

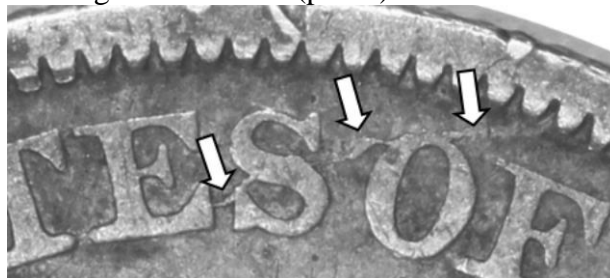


- All examples seen (although very weak in EDS): die crack from dentil along star 11 into field and to star 10 (photo)

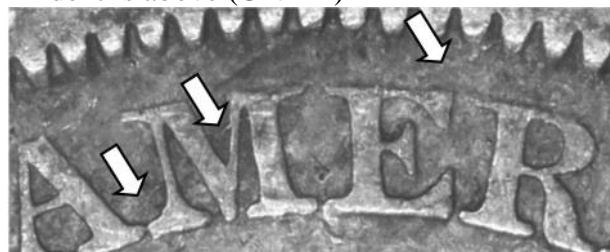
Reverse R



- Large O mintmark (photo)



- Many small die cracks thru the legend, prominently thru (STA)TES OF (photo); another die crack along the top of letters to dentils above (UNITE)D



- Diagonal die crack above and thru AMER(ICA) (photo); another die crack along the base of the denomination
- Top of vertical shield lines A-1 and A-2 and bottom of C-1 and C-2 missing

This is the first use of this obverse die and fourth use of this reverse die.

Date grid: M2, .010"	141 reeds	Typical diameter = 1.200"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: F15		Coin from the Bill Bugert Collection	
Cross reference: WB-101, Lloyd-909.		Version 1.325	

**1854-O
WB-41, Arrows**



Obverse 30 (enhanced die cracks in photo at right)



Reverse R (enhanced die cracks in photo at right)

1854-O WB-42, Arrows

Obverse 30



- Date (photo)

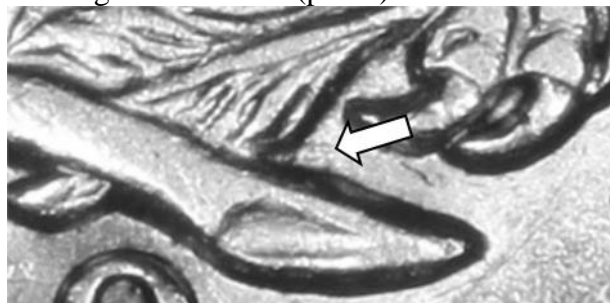


- All examples seen: radial die crack from the dentils at K-2 thru star 11 into field towards drapery below Liberty's elbow (photo); other die cracks between Liberty's head and cap to star 9; another between stars 10-11
- "Orange peel" effect around Liberty's head and upper stars and cap
- Clash in the right field next to Liberty's drapery

Reverse S



- Large O mintmark (photo)



- Die lines in the crotch formed by the olive stem and arrow feathers (photo)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-910.		Version 1.325	

**1854-O
WB-42, Arrows**



Obverse 30 (enhanced die cracks in photo at right)



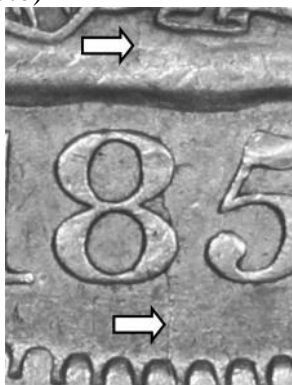
Reverse S

1854-O WB-43, Arrows

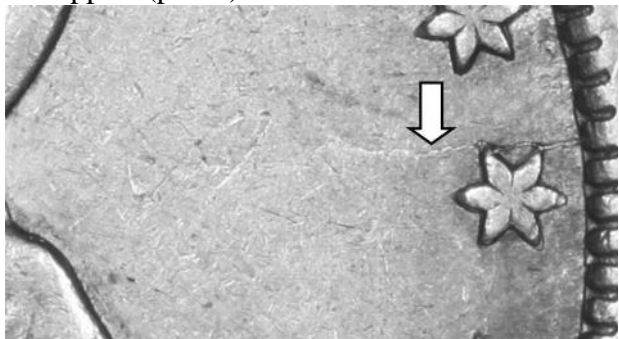
Obverse 31



- Date (photo)



- All examples seen: vertical die crack thru the right side of the (1)8(54) into the rock support (photo)

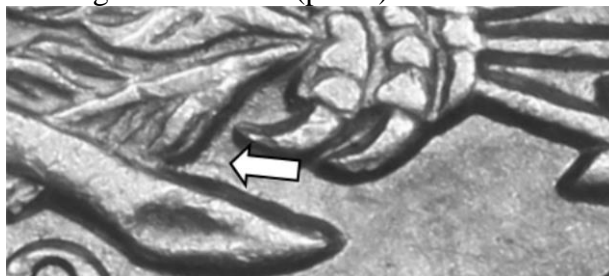


- All examples seen: die crack from the dentils at K-3 thru star 12 into the field (photo)

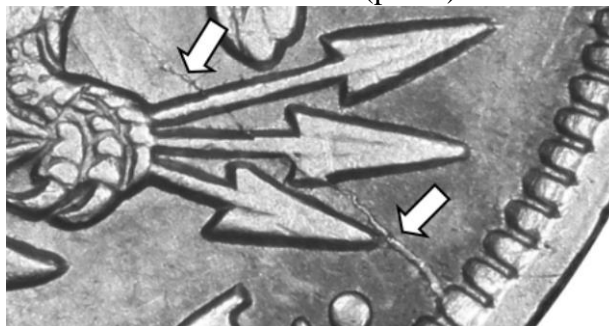
Reverse S



- Large O mintmark (photo)



- Die lines in the crotch formed by the olive stem and arrow feathers (photo)



- All examples seen: radial die crack from dentils at K-5 thru the middle arrowhead into the field below the right wing (photo)
- Another die crack along the top of UNITED to rim above ST(ATES)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: Full	Foot support: Weak	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-911.		Version 1.325	

**1854-O
WB-43, Arrows**



Obverse 31 (enhanced die cracks in photo at right)



Reverse S (enhanced die cracks in photo at right)

1854-O WB-44, Arrows

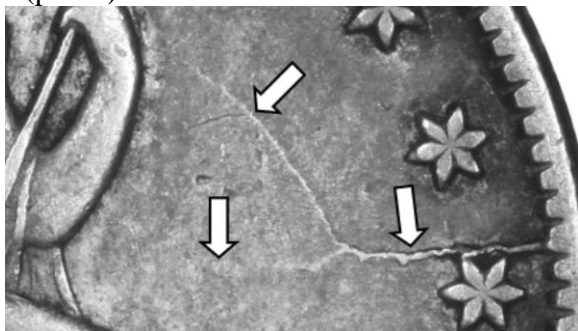
Obverse 31



- Date (photo)



- Vertical die crack thru the right side of the 5 in the date into the rock support, now diagonally thru the flag of the 5 into the rock support out Liberty's foot to the dentil at K-4 (photo)

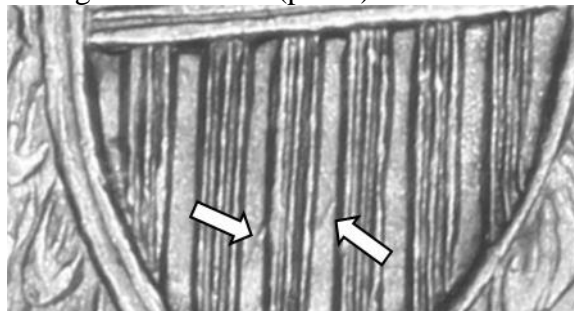


- Die crack from the dentils at K-3 thru star 12 into the field, now arching up to Liberty's right wrist (photo)

Reverse T



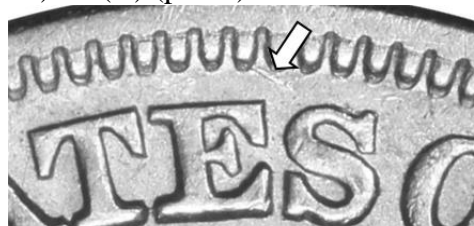
- Large O mintmark (photo)



- Nearly vertical die lines in the shield lower recessed area (photo)



- Scattered die lines above and in the letters (UN)ITE(D) (photo)



- Diagonal die line from dentil above (STAT)E(S) (photo)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Weak	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU55 and XF45		Coins from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-912.		Version 1.325	

**1854-O
WB-44, Arrows**



Obverse 31 (enhanced die cracks in photo at right)



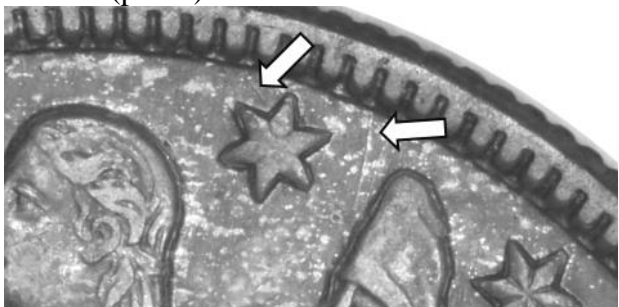
Reverse T

1854-O WB-45, Arrows

Obverse 32



- Date (photo)



- EDS only: crossed die lines thru star 8 and cap (photo)



- LDS: die crack from dentil along star 6 to Liberty's left shoulder (photo)
- Clash marks thru Liberty's right arm and in the field to the right of the Liberty's drapery

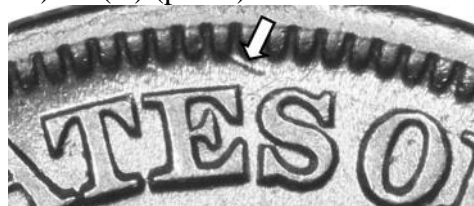
Reverse T



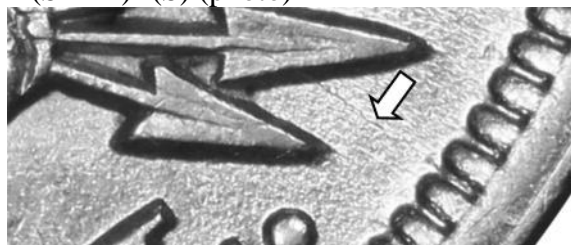
- Large O mintmark (photo)
- The vertical die lines in the shield lower recessed area seen on the previous use of this die (WB-44) are very weak to non-visible on this die marriage.



- Scattered die lines above and in the letters (UN)ITE(D) (photo)



- Diagonal die line from dentil above (STAT)E(S) (photo)



- LDS: radial die crack from between the dentils thru the middle arrowhead (photo)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: PCGS AU53		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-913.		Version 1.325	

1854-O
WB-45, Arrows



Obverse 32 (enhanced die cracks in photo at right)



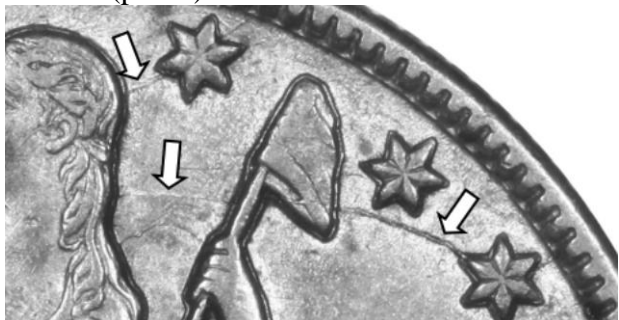
Reverse T (enhanced die cracks in photo at right)

1854-O WB-46, Arrows

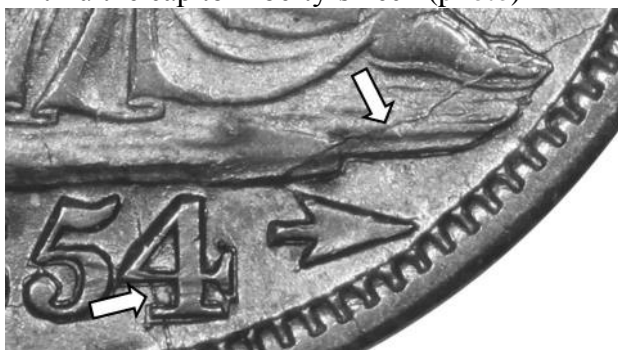
Obverse 33



- Date (photo)



- All examples seen: die crack around the entire circumference; notably, from star 10 thru the cap to Liberty's neck (photo)

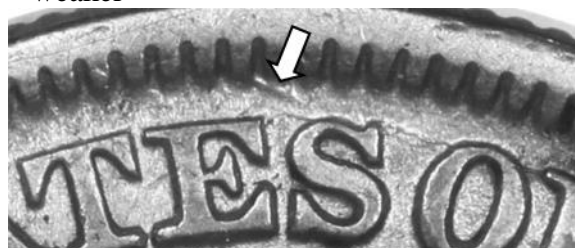


- Other key die cracks: radial from dentil thru (185)4, along rock support thru Liberty's right foot to rim (photo). See die crack diagram on next page

Reverse T



- Large O mintmark (photo)
- Scattered die lines above and in the letters (UN)ITE(D) seen on the previous uses of this die (WB-44 and WB-45) now much weaker



- Diagonal die line from dentil above (STAT)E(S) (photo); note die crack



- All die states: radial die crack from between the dentils at K-5 thru the middle arrowhead (photo)
- Other die cracks thru most of the legend, denomination, olive leaves, arrowheads, and from (UNITE)D to the eagle's beak

This is the only use of this obverse die and third use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.209"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-914.		Version 1.325	

1854-O
WB-46, Arrows



Obverse 33 (enhanced die cracks in photo at right)



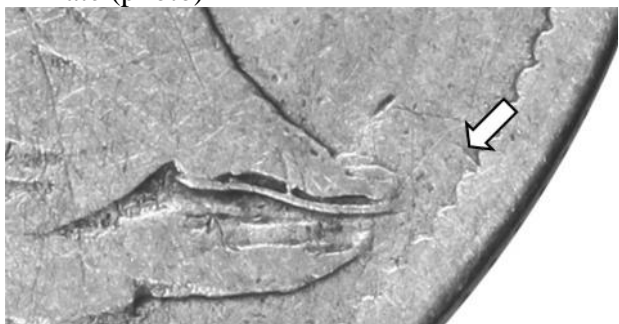
Reverse T (enhanced die cracks in photo at right)

1854-O WB-47, Arrows

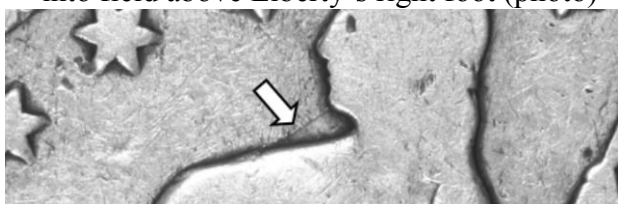
Obverse 34



- Date (photo)



- LDS: small radial die crack from rim at K-5 into field above Liberty's right foot (photo)



- LDS: diagonal die crack under Liberty's chin to her left shoulder (photo)

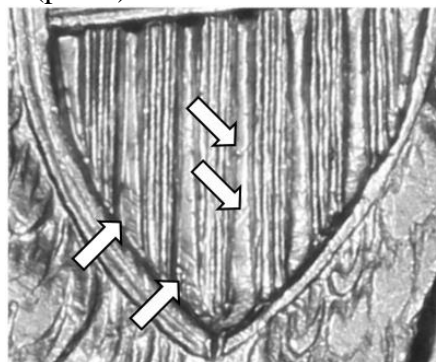
Reverse U



- Large O mintmark (photo)



- All examples seen: die crack from between dentils bisecting (D)O(L) into field below talon (photo)



- Die lines in the center of the shield's lower recessed area and along the lower left edge (photo)

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF40		Coins from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-915.		Version 1.325	

**1854-O
WB-47, Arrows**



Obverse 34 (enhanced die cracks in photo at right)



Reverse U (enhanced die cracks in photo at right)

1854-O WB-48, Arrows

Obverse 35



- Date (photo)



- Small lump in the recessed area of the rock support to the left of the skirt loop (photo); other smaller lumps throughout the lower skirt
- Clash in the drapery below Liberty's right elbow

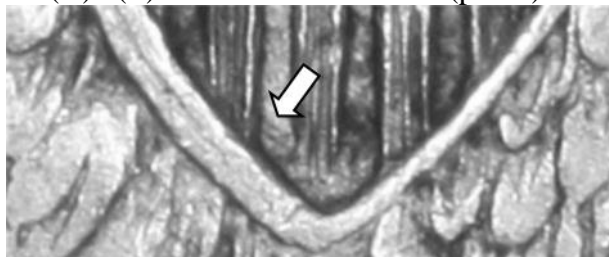
Reverse U



- Large O mintmark (photo)



- Die crack from between dentils bisecting (D)O(L) into field below talon (photo)



- LDS: the die lines in the shield's lower recessed area seen on the previous use of this die (WB-47) are now extremely weak to not visible.

This is the first use of this obverse die and second use of this reverse die.

One example was seen with a 10° reverse rotation.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-916.		Version 1.325	

1854-O
WB-48, Arrows



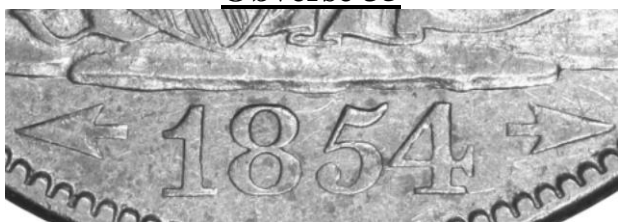
Obverse 35



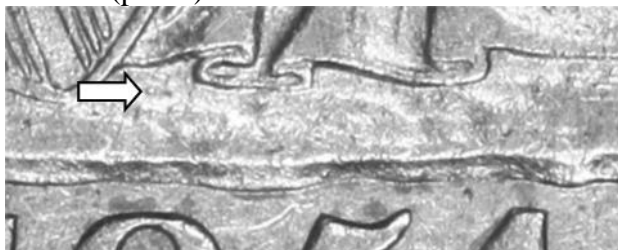
Reverse U (enhanced die cracks in photo at right)

1854-O WB-49, Arrows

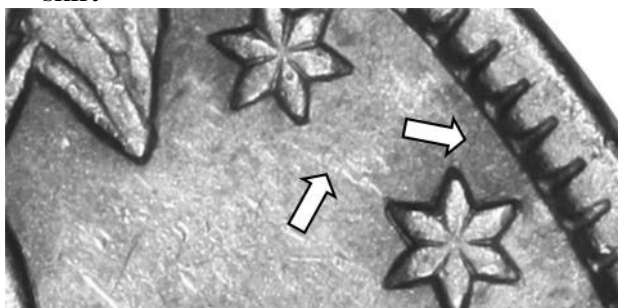
Obverse 35



- Date (photo)



- Small lump in the recessed area of the rock support to the left of the skirt loop (photo); other smaller lumps throughout the lower skirt

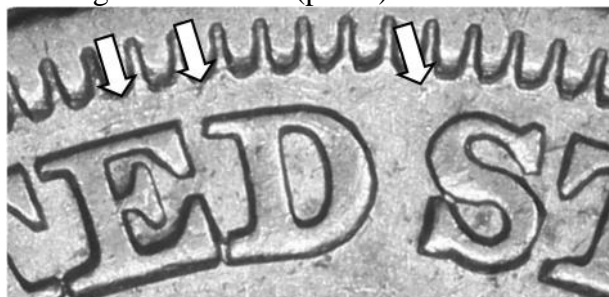


- MDS-LDS: die crack between stars 9-10 to dentil above star 10 (photo) and between stars 11-12
- Clash in the drapery below Liberty's right elbow

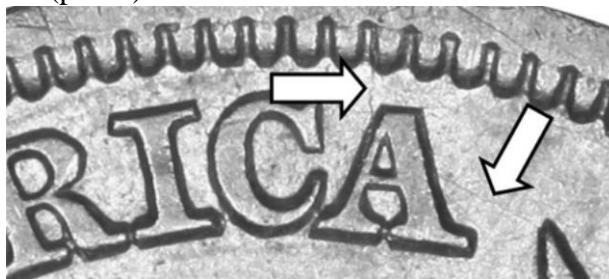
Reverse V



- Large O mintmark (photo)



- Rust lumps in the field between the top of letters (UNIT)ED S(TATES) and the dentils (photo)



- MDS-LDS: radial die crack from dentil to (AMERIC)A to the tip of the top arrowhead (photo)

This is the second use of this obverse die and first use of this reverse die

This die marriage comes with various rotations of the reverse; very slight CCW, very slight CW, 20° CCW, 35° CCW. EDS coins seem to have no rotation.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.204"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-917.		Version 1.325	

**1854-O
WB-49, Arrows**



Obverse 35 (enhanced die cracks in photo at right)



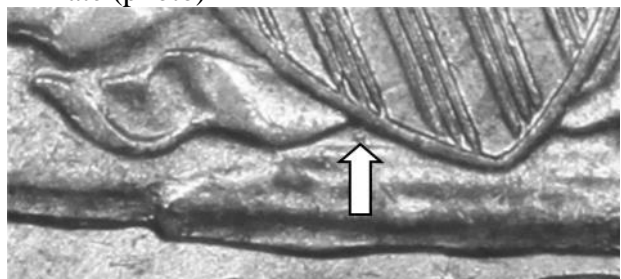
Reverse V (enhanced die cracks in photo at right)

1854-O WB-50, Arrows

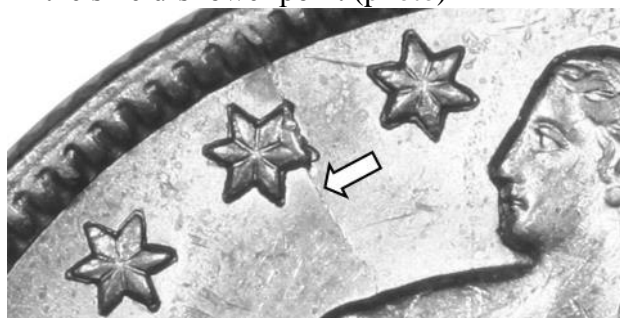
Obverse 32



- Date (photo)



- Small lump in the rock support to the left of the shield's lower point (photo)

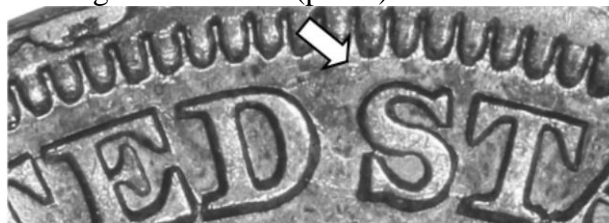


- All examples seen: die crack from between the dentils at K-11 thru star 6 to Liberty's left shoulder (photo)
- MDS-LDS: die cracks thru stars 10-13
- Clash in field to right of Liberty's drapery

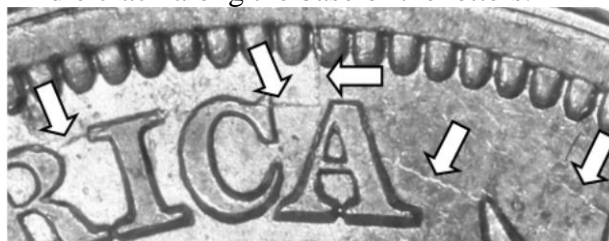
Reverse V



- Large O mintmark (photo)



- The rust lumps in the field between the top of letters (UNIT)ED S(TATES) and the dentils seen on the previous use of this die (WB-49) are now very weak (photo). Note die crack along the base of the letters.



- All examples: radial die crack from dentil to (AMERIC)A to the tip of the top arrowhead and along the top of letters AMERICA and arrowheads (photo); other die cracks prominently along the base of the denomination and most of the legend
- High grade examples: rim cuds from K-5 to K-10

This is the second use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.214"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: MS61		Coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-918.		Version 1.325	

1854-O
WB-50, Arrows



Obverse 32 (enhanced die cracks in photo at right)



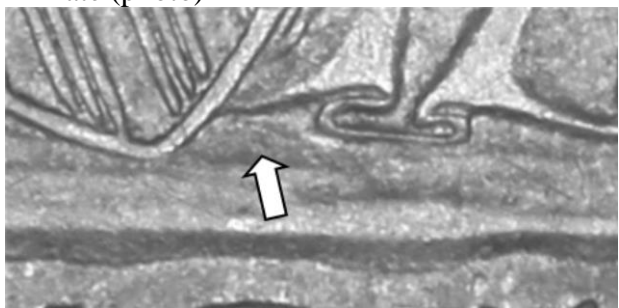
Reverse V (enhanced die cracks in photo at right)

1854-O WB-51, Arrows

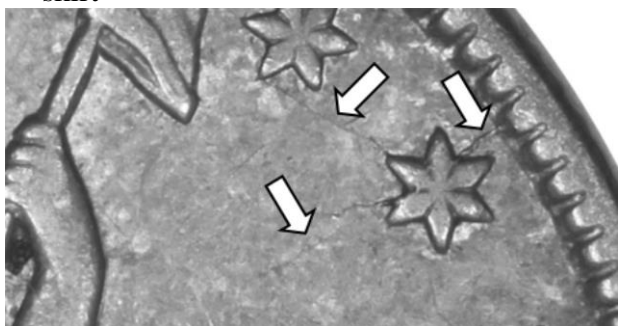
Obverse 35



- Date (photo)



- Small lump in the recessed area of the rock support to the left of the skirt loop (photo); other smaller lumps throughout the lower skirt

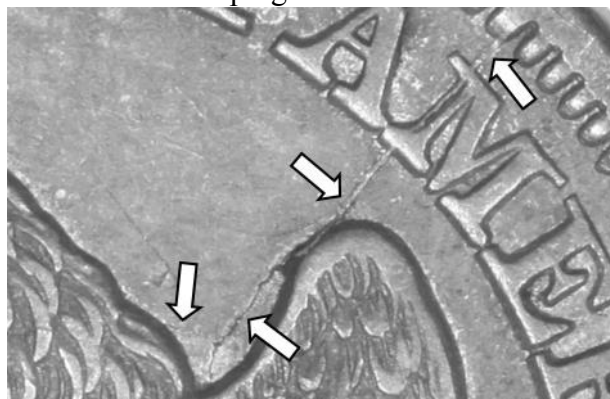


- All die states: die crack between stars 9-10 to dentil thru star 10 into field and between stars 11-12 (photo)
- Radial die crack from the dentil at K-5 into the field
- Clash in the drapery below Liberty's right elbow

Reverse W



- Large O mintmark (photo); LDS: note the downward sloping die crack above the "O"



- All examples seen: radial die crack from the dentil above and along the left upright of the (A)M(ERICA), along the upper tip of the eagle's right wing then splits to eagle's neck (photo)

This is the third use of this obverse die and only use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.208"	Rarity - 3
Drapery die state: Full	Foot support: Weak	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-919.		Version 1.325	

**1854-O
WB-51, Arrows**



Obverse 35 (enhanced die cracks in photo at right)



Reverse W (enhanced die cracks in photo at right)

1854-O WB-52, Arrows

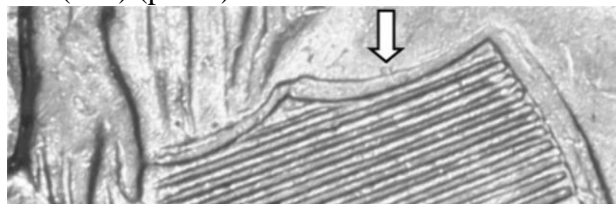
Obverse 36



- Date (photo)



- Many diagonal (NE to SW) die lines thru the date, prominently thru the left arrow and the 1(854) (photo)

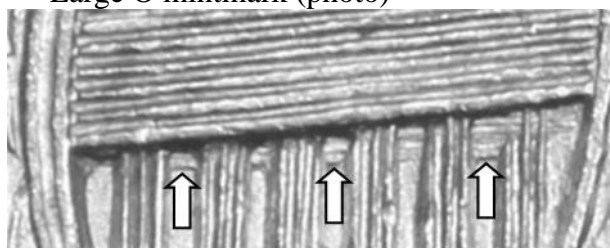


- Small lump on the upper right edge of the shield (photo)

Reverse X



- Large O mintmark (photo)



- All examples seen: horizontal die lines in the lower shield (photo)



- All examples seen: radial die crack from between dentils above (AMERICA) thru left side of C into field and eagle's right wing (photo)
- LDS: horizontal die crack from the dentil above (A)M(ERICA) thru AM(ERICA) into the field above the eagle's head

This is the first use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.213"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Randy Wiley Collection	
Cross reference: WB-101, Lloyd-1001.		Version 1.325	

1854-O
WB-52, Arrows



Obverse 36



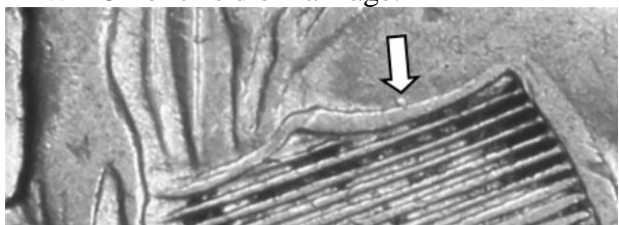
Reverse X (enhanced die cracks in photo at right)

1854-O WB-53, Arrows

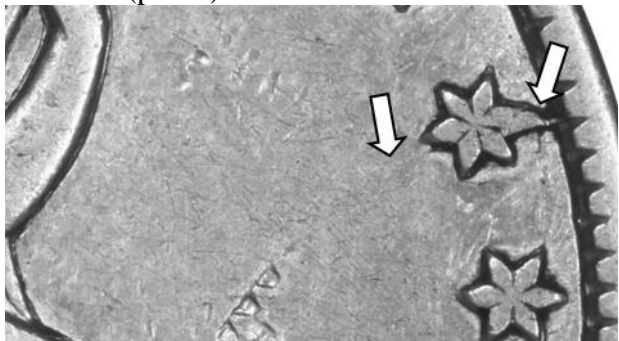
Obverse 36



- Date (photo)
- The diagonal die lines thru the date seen in the previous use of this die (WB-52) are now not visible. It is currently unknown whether these die lines were polished from the die on WB-52 or this die marriage.

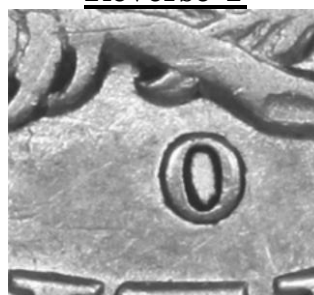


- Small lump on the upper right edge of the shield (photo)

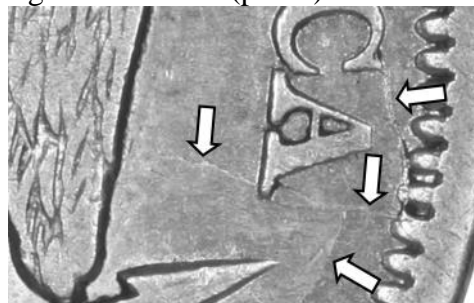


- Two radial die lines: from the dentil at K-7 thru star 1 into field, another from the dentil at K-2 thru star 11 into field – LDS (photo) with cud at star 11. Other die cracks thru stars 1-5 and 11-13

Reverse Y



- Large O mintmark (photo)



- All examples seen: heavily cracked reverse prominently from the dentil thru (AMERIC)A into the field (photo above) and from the dentil bisecting the D(OL) to the olive stem (photo below)



- Other die cracks along the base of the denomination (see die crack diagram on the next page)

This is the second use of this obverse die and only use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.209"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-1002.		Version 1.325	

**1854-O
WB-53, Arrows**



Obverse 36 (enhanced die cracks in photo at right)



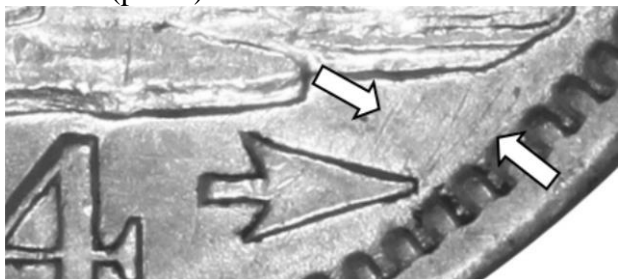
Reverse Y (enhanced die cracks in photo at right)

1854-O WB-54, Arrows

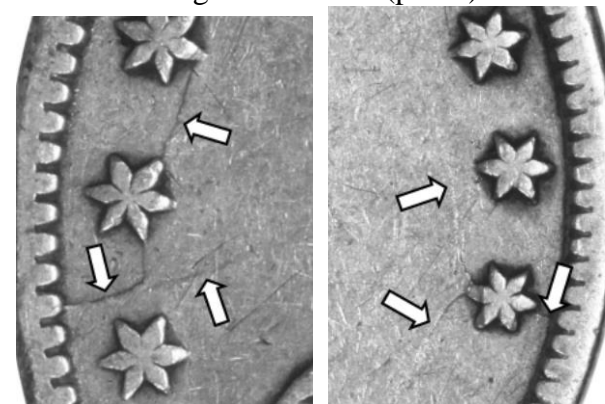
Obverse 37



- Date (photo)

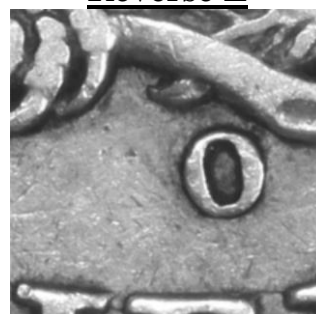


- EDS: many die lines below the rock support above the right arrowhead (photo)

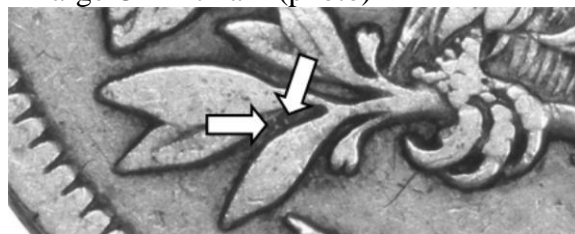


- LDS: two radial die cracks: from K-8 between stars 1-2 that splits into field and to star 2 (photo above left); another thru stars 13 that splits north and south into field (photo above right). Note bi-level die.
- Other die cracks thru left arrowhead, along base, and thru rock

Reverse Z



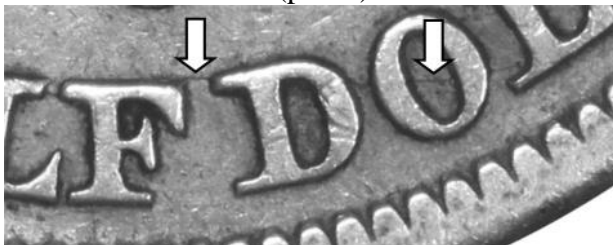
- Large O mintmark (photo)



- Small lumps in the recessed area between olive leaves #1 and #2 (photo)



- All examples seen: radial die crack from dentil to right of (DOL). to the tip of the lower arrowhead (photo)



- All examples seen: diagonal die crack thru (HAL)F DOL (photo)

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: EDS - AU53; LDS - VF20		Coins from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-1101.		Version 1.325	

1854-O
WB-54, Arrows



Obverse 37 (enhanced die cracks in photo at right)



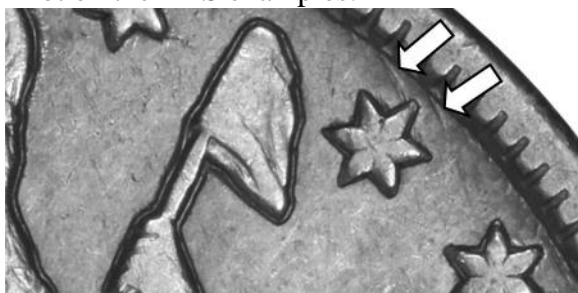
Reverse Z (enhanced die cracks in photo at right)

1854-O WB-55, Arrows

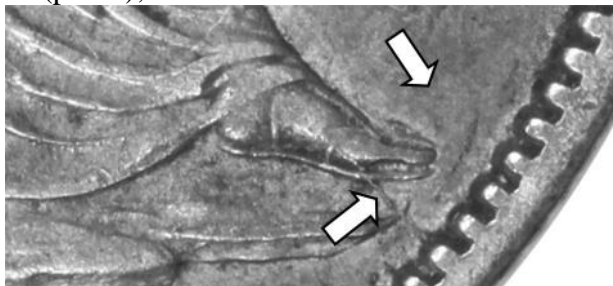
Obverse 38



- Date (photo); EDS shown above with crossed die lines thru date. Other less prominent die lines are thru stars 6-8. These die lines are not on the LDS examples.



- EDS: parallel die lines above and thru star 9 (photo); smaller lines above star 10

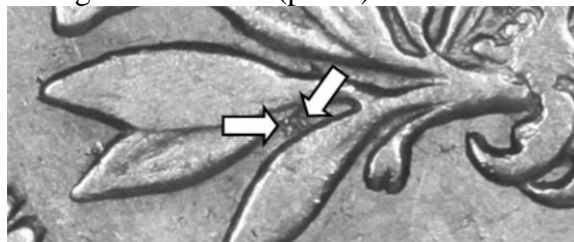


- MDS-LDS: die crack from dentil at foot support (photo) thru foot into stars 9-13

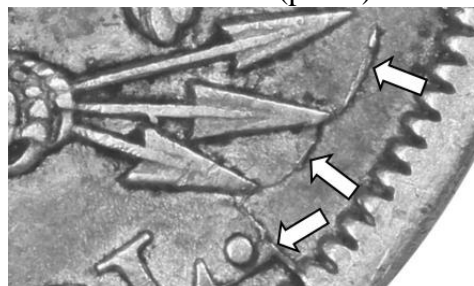
Reverse Z



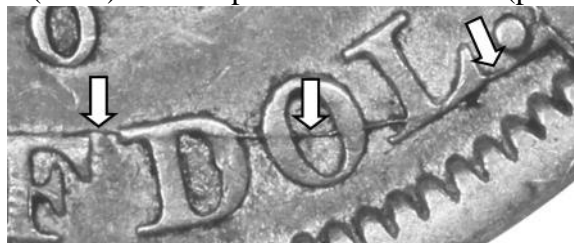
- Large O mintmark (photo)



- Small lumps in the recessed area between olive leaves #1 and #2 (photo)



- Extensive die cracks from dentil to right of (DOL). to the tips of the arrowheads (photo)



- Diagonal die crack thru (HAL)F DOL (photo); many other die cracks – see die crack diagram on the next page

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.204"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: EDS – VF30, LDS – XF45		Coins from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-1102.		Version 1.325	

**1854-O
WB-55, Arrows**



Obverse 38 (enhanced die cracks in photo at right)



Reverse Z (enhanced die cracks in photo at right)

1854-O WB-56, Arrows

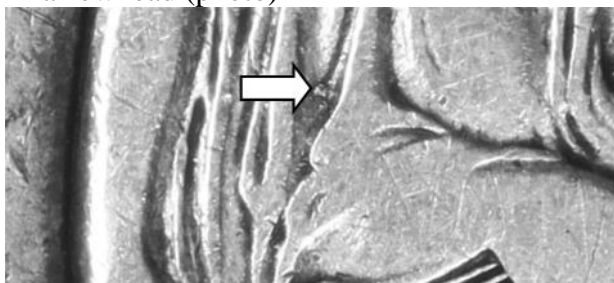
Obverse 39



- Date (photo)



- Nearly vertical die lines thru the left arrowhead (photo)



- Small lump in Liberty's gown on Liberty's left midsection (photo)

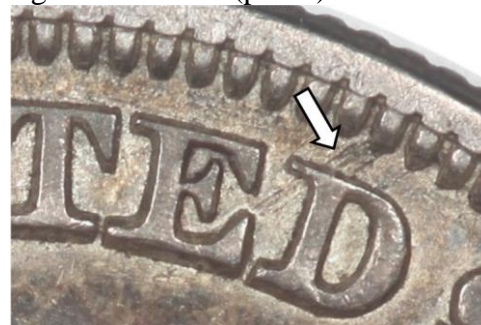


- Diagonal (NW to SE) die line from the rim to Liberty's head (photo); others around star 9

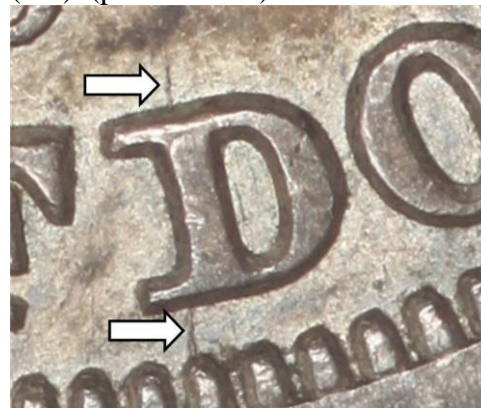
Reverse AA



- Large O mintmark (photo)



- Die lines above and thru the letters of UNITED (photo above) and from dentils to D(OL). (photo below)



This is the only use of this obverse die and only use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.204"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45 and VG10		Coins from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-UL-1.		Version 1.325	

1854-O
WB-56, Arrows



Obverse 39



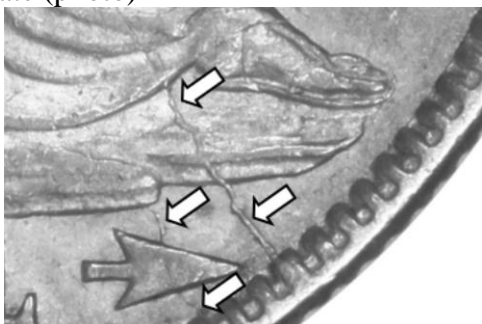
Reverse AA

1854-O WB-57, Arrows

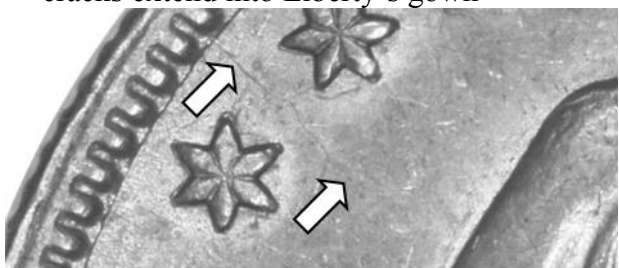
Obverse 40



- Date (photo)



- All examples seen: die cracks from dentils thru the right arrowhead and in the field into the rock support (photo); LDS: these die cracks extend into Liberty's gown

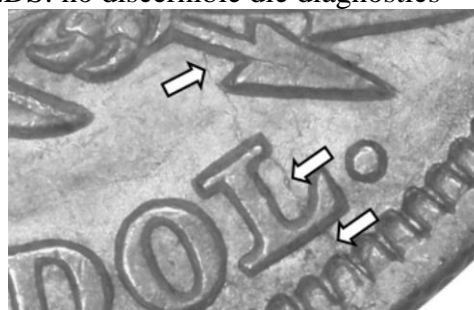


- LDS with 148 reeds: radial die crack from dentil between stars 4-5 into field towards Liberty's left arm (photo); another die crack thru stars 9-13

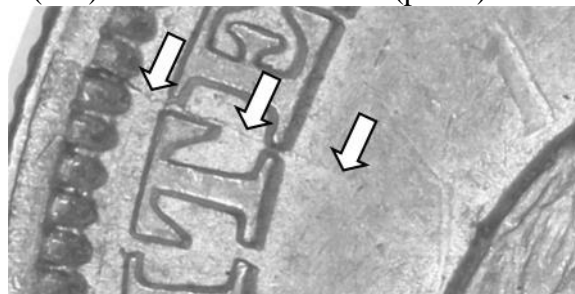
Reverse BB



- Large O mintmark (photo)
- EDS: no discernible die diagnostics



- MDS-LDS: radial die crack from dentil thru (DO)L to lower arrow shaft (photo)



- LDS (strong on examples with 148 reeds): radial die crack from between dentils between (UN)IT(ED) into the field towards the left wing (photo); another radial die crack thru the right side of the (STATE)S and other die cracks along the legend

This is the only use of this obverse die and only use of this reverse die.

Date grid: M2, .010"	EDS: 143 reeds LDS: 148 reeds	Typical diameter = 1.204"	143 Reeds: Rarity - 3 148 Reeds: Rarity - 5
Drapery die state: Full	Foot support: Full	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-UL-2-3 and 8.		Version 1.325	

1854-O
WB-57, Arrows



Obverse 40 (enhanced die cracks in photo at right)



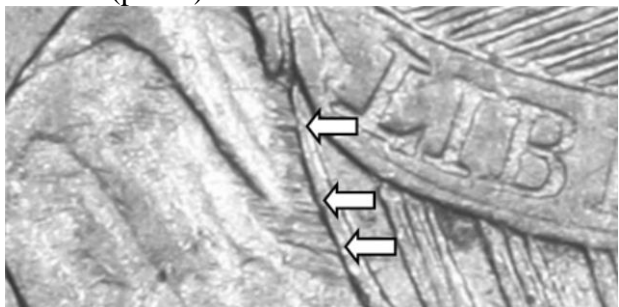
Reverse BB (enhanced die cracks in photo at right)

1854-O WB-58, Arrows

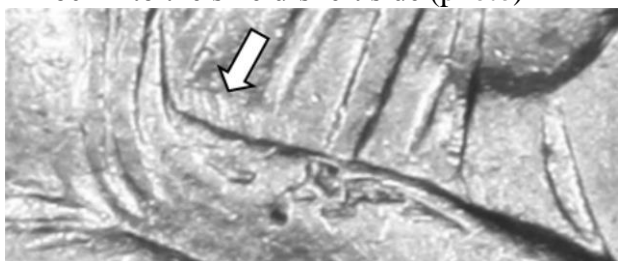
Obverse 41



- Date (photo)



- All examples seen: parallel die lines from the rock into the shield's left side (photo)

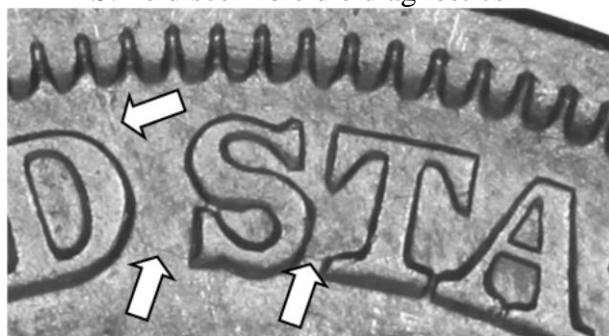


- LDS: clash lines in Liberty's lap (photo)

Reverse CC



- Large O mintmark (photo)
- EDS: no discernible die diagnostics



- MDS-LDS: weak die crack from dentil above (UNITE)D along the right side of the D along the base of letters STATES (photo)

This is the only use of this obverse die and only use of this reverse die.

Date grid: M2, .010"	143 reeds	Typical diameter = 1.195"	Rarity - 3
Draperies die state: Full	Foot support: Partial	Dentils: Obverse: - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Mike Lloyd Collection	
Cross reference: WB-101, Lloyd-UL-3.		Version 1.325	

**1854-O
WB-58, Arrows**



Obverse 41



Reverse CC (enhanced die cracks in photo at right)

1855-O Arrows

This date is the last in the series of arrows at date, no motto reverse half dollars. Evidentially, the Mint decided they had run the arrows at the date long enough to satisfy/inform the public that the planchet weight had changed. As with the previous two years (1853-O Arrows and Rays and 1854-O Arrows), the date and arrowheads at each side of the date were punched into the master obverse die from which all the working dies for this date were made. I believe the Mint decided to add the date/arrowheads into the master die instead of the normal policy of punching them into the individual working dies was so that no half dollar of this date would be minted without the arrowheads. In any case, there is no position variation of the date and arrowheads for 1855-O.

Nineteen die marriages are known as depicted in the tables below.

Mintage	Number of Dies	Number of Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
3,688,000	Requested		-	-	3 (141, 143, 148)
	Shipped	-	16	16	
	Known	19	18	16	

















Attributing 1855-O Arrows half dollars. The date and arrowheads at the date have no variation in placement for all die marriages of this date. This characteristic is due to the date and arrowheads being punched into the master head die from which all the working dies for this date were made. Lack of variation in date/arrowhead placement makes differentiation of the date placements worthless for specific working die attribution. Add this to the extremely poor diagnostics for many dies of this date and few readily apparent variations in mintmark positions make for very difficult variety attribution, especially for coins grading below VF. Many low grade examples of this date are impossible to correctly attribute. For these reasons, 1855-O is my least favorite mintmarked Liberty Seated half dollar date.

Of all the New Orleans Branch Mint half dollar die marriages, this date requires the most new effort outside this Register. With the poor die diagnostics and my lack of interest in this date, I believe additional die marriages will be found with concentrated research efforts. There is also the distinct possibility that some the dies listed here without poor die diagnostics may indeed be duplicates currently separately listed. In summary, further research is necessary on identification of the die marriages of this date.

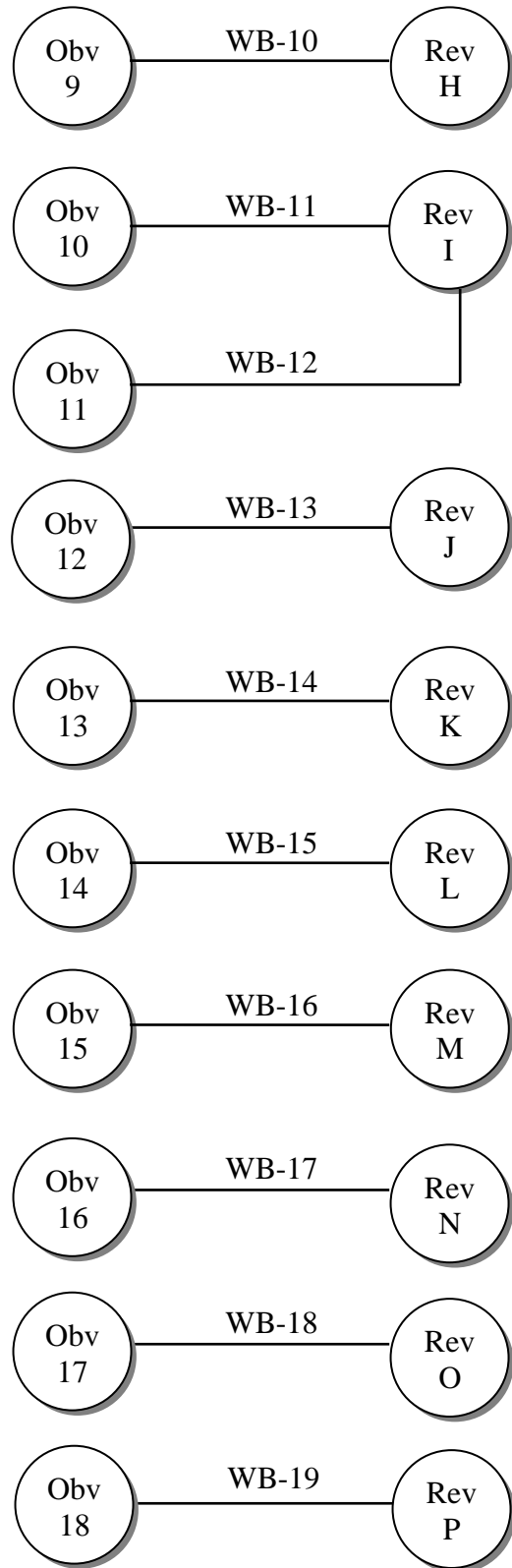
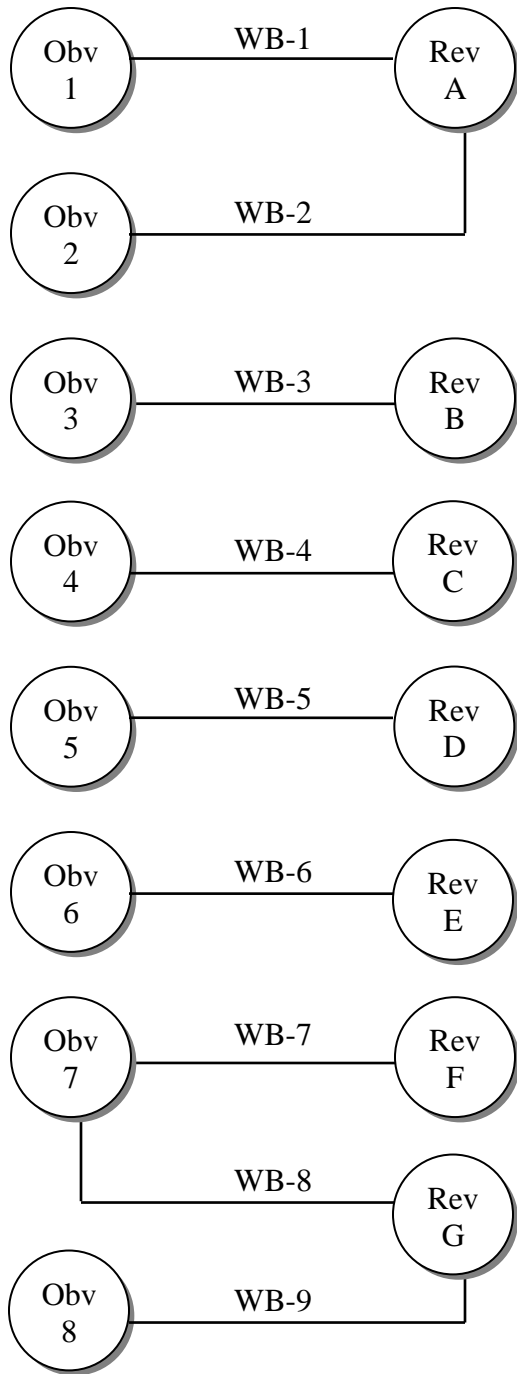
1855-O Obverse and Reverse die identification keys		O over Horizontal O mintmark	Die crack along base of letters (HAL)F DOL to arrowheads	Die line on upper arrow shaft	Very weak die cracks	Diagonal die line in the lower shield lines	Lower arrowheads connected by die lines	Extensive die cracking
		A	B	C	D	E	F	G
Lump on Liberty's throat	1	WB-1						
Lumps in the drapery	2	WB-2						
Diagonal die line in Liberty's skirt	3		WB-3					
Lump inside left elbow	4			WB-4				
Vertical die line from Liberty's right calf	5				WB-5			
Lumps on Liberty's neck and throat	6					WB-6		
Lump in the drapery	7						WB-7	WB-8
Lumps between star 13 and dentils	8							WB-9

1855-O Obverse and Reverse die identification keys (Continued)		No prominent die characteristics	Small lump on olive leaf #4	Small lump in the field above (UNIT)E(D)	Die crack from K- 7 to K-9	Die crack along the base of legend	No prominent die characteristics	Small lump on the middle of the lower edge of olive leaf # 3	Die lines between (STAT)ES	Die lines above (A)ME(RICA)
		H	I	J	K	L	M	N	O	P
Lump on right arm	9	WB-10								
Lump on neckline	10		WB-11							
No die defects	11		WB-12							
No die defects	12			WB-13						
No die defects	13				WB-14					
Lumps under right knee	14					WB-15				
Lump between two shield lines	15						WB-16			
No die defects	16							WB-17		
Die cracks around circumference	17								WB-18	
Rust lumps on Liberty	18									WB-19

1855-O Arrows Half Dollar Mintmark Positions

 <p>Reverse A, WB-1, 2</p>	 <p>Reverse B, WB-3</p>	 <p>Reverse C, WB-4</p>
 <p>Reverse D, WB-5</p>	 <p>Reverse E, WB-6</p>	 <p>Reverse F, WB-7</p>
 <p>Reverse G, WB-8, 9</p>	 <p>Reverse H, WB-10</p>	 <p>Reverse I, WB-11, 12</p>
 <p>Reverse J, WB-13</p>	 <p>Reverse K, WB-14</p>	 <p>Reverse L, WB-15</p>
 <p>Reverse M, WB-16</p>	 <p>Reverse N, WB-17</p>	 <p>Reverse O, WB-18</p>
 <p>Reverse P, WB-19</p>		

1855-O Arrows Half Dollar Die Linkage Diagram



1855-O

WB-1, Arrows, O over Horizontal O

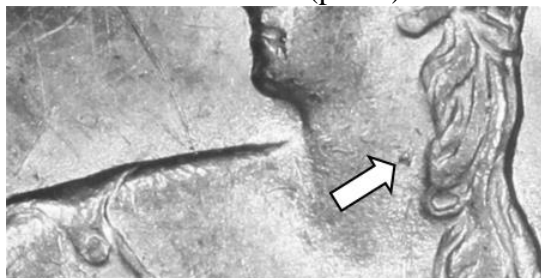
Obverse 1



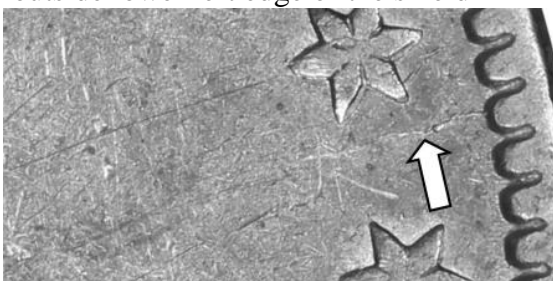
- Date (photo)



- EDS only: repunched (?) or die gouge above lower left base of the 1 (photo)



- All die states: lump on Liberty's throat (photo) and die line in the rock support along outside lower left edge of the shield

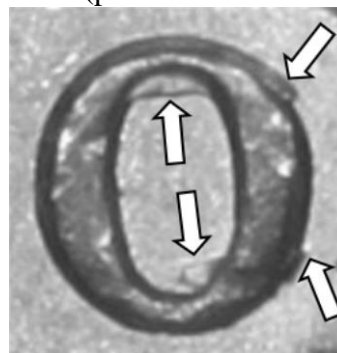


- LDS only: radial die crack from dentil between stars 10-11 into field (photo) and connecting most stars

Reverse A



- Large O mintmark repunched, O over horizontal O (photos above and below)



- LDS only: circular die cracks along the tops of the letters of the denomination and legend
- LDS only: clash in shield's lower right

This is the only use of this obverse die and first use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.198"	Rarity - 3
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Draper die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full
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Grade of coin depicted: NGC AU58	EDS coin from the Randy Wiley Collection MDS/LDS coins from the Bill Bugert Collection
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Cross reference: WB-102.	Version 1.325
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1855-O

WB-1, Arrows, O over Horizontal O



Obverse 1 (enhanced die cracks in photo at right)



Reverse A (enhanced die cracks in photo at right)

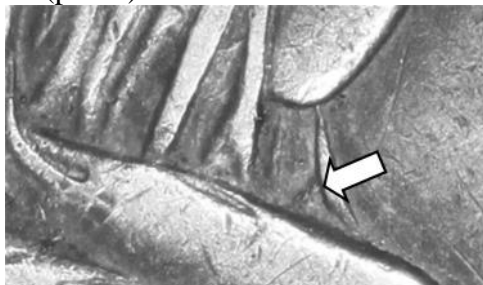
1855-O

WB-2, Arrows, O over Horizontal O

Obverse 2



- Date (photo)

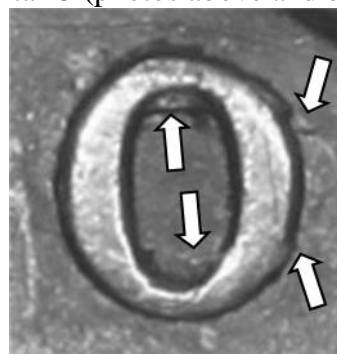


- Small “cruddy” lumps in the drapery below Liberty’s right elbow (photo)

Reverse A



- Large O mintmark repunched, O over horizontal O (photos above and below)



- All die states: circular die cracks along the tops of the letters of the denomination and legend and along arrowheads and olive leaves. These die cracks first appeared on the previous use of this die (WB-1) and will be on all examples of WB-2.
- Clash in shield’s lower right

This is the only use of this obverse die and second and last use of this reverse die.

Date grid: M1.5, .012”	143 reeds	Typical diameter = 1.204”	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: VF30		Coin from the Randy Wiley Collection	
Cross reference: WB-102.		Version 1.325	

1855-O
WB-2, Arrows, O over Horizontal O



Obverse 2



Reverse A (enhanced die cracks in photo at right)

1855-O WB-3, Arrows

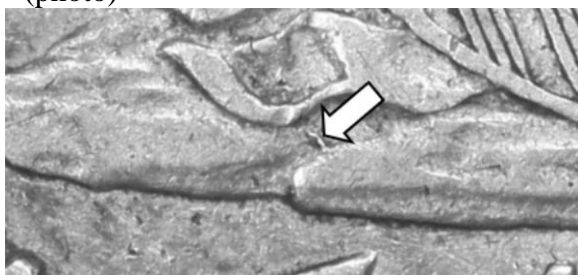
Obverse 3



- Date (photo)



- Diagonal die line in Liberty's skirt (above left) and small lump in the rock support above the right arrowhead (above right) (photo)



- Die defect in rock support below ribbon (photo)
- Weak die crack along star 8 to cap thru stars 9-12

Reverse B



- Large O mintmark (photo)



- All examples seen: die crack along base of letters (HAL)F DOL to arrowheads (photo)

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.199"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-3, Arrows



Obverse 3 (enhanced die cracks in photo at right)



Reverse B (enhanced die cracks in photo at right)

1855-O WB-4, Arrows

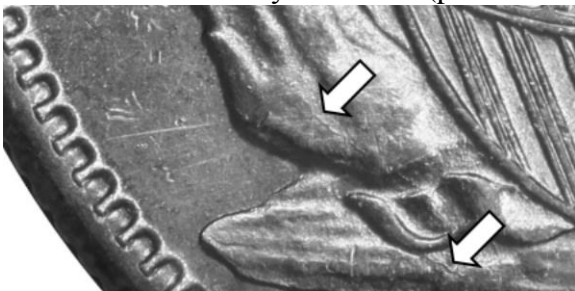
Obverse 4



- Date (photo)



- Lump inside Liberty's left elbow (lower right in above photo)
- MDS to LDS: radial die crack from dentil thru star 4 to Liberty's left arm (photo above)

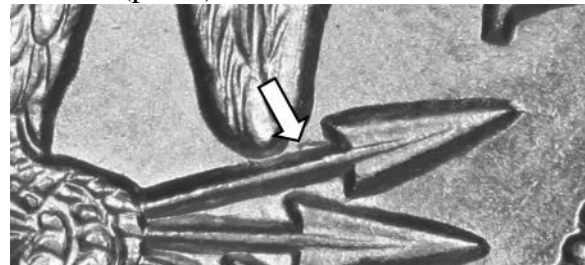


- LDS: weak die crack from rock support thru ribbon to rock (photo)

Reverse C



- Large O mintmark low in the field below the crotch (photo)



- Die line along upper arrow shaft (photo)

- This is the only use of this obverse die and only use of this reverse die.
- With two reed counts for this die pair, short of actually counting the reeds, the 143 reed collar may be identified in obverse die states by the lack of the radial die crack to the die crack between the dentil to star 4 only. On later die states, the die crack extends from star 4 into the left field.
- At least one LDS example of this die marriage exists with a partial collar.

Date grid: M1.5, .012"	EDS: 143 reeds LDS: 141 reeds	Typical diameter = 1.204"	EDS (143 reeds): R - 4 LDS (141 reeds): R - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: VF30 LDS: MS63		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-4, Arrows



Obverse 4 (enhanced die cracks in photo at right)



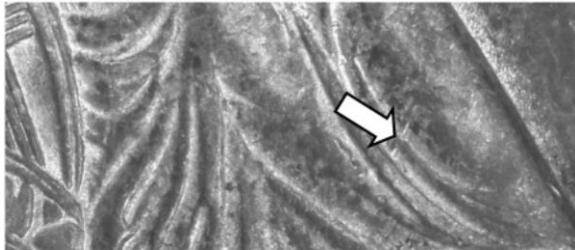
Reverse C

1855-O WB-5, Arrows

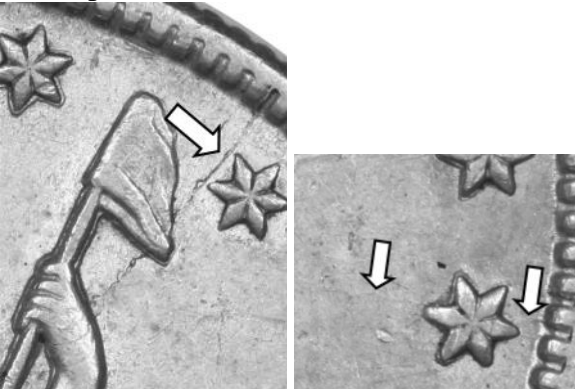
Obverse 5



- Date (photo)



- Nearly vertical die line from Liberty's right calf (photo)



- All examples seen: radial die crack from dentil near star 9 thru lower tip of cap to Liberty's right wrist (photo above left); another weaker radial die crack from dentil thru star 13 into field (photo above right)
- Weak vertical die line in drapery below Liberty's elbow

Reverse D



- Large O mintmark (photo)
- Very weak die cracks from dentils along top of letters UNIT(ED) and another from the upper arrowhead to (AMERIC)A

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	141 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS XF45 and AU53		Coins from the Bill Bugert and Randy Wiley Collections	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-5, Arrows



Obverse 5 (enhanced die cracks in photo at right)



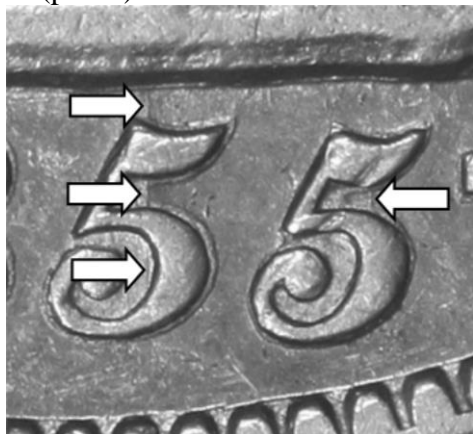
Reverse D (enhanced die cracks in photo at right)

1855-O WB-6, Arrows

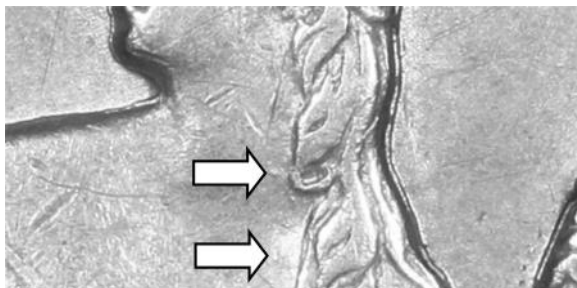
Obverse 6



- Date (photo)



- EDS only: vertical die lines thru the (18)55 (photo); outlining on stars, Liberty, and date fade with die state

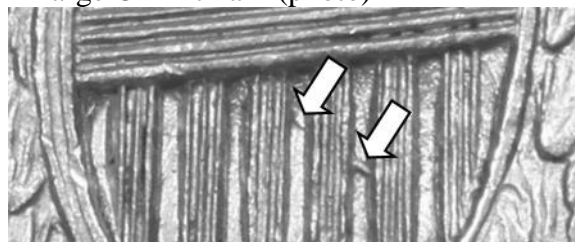


- Small lumps on Liberty's neck and throat (photo) visible on high grade coins

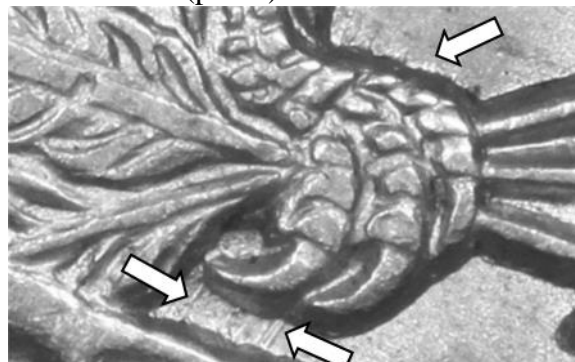
Reverse E



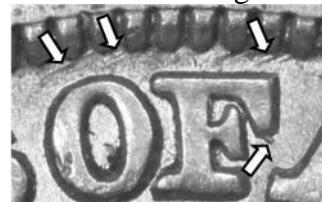
- Large O mintmark (photo)



- Diagonal (NW to SE) die line in the lower shield lines (photo)



- Weak die lines thru the right claw (photo)



- Other scattered die lines throughout the reverse prominently above and thru OF (photo)

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.207"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: VF35 LDS: AU50		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-6, Arrows



Obverse 6



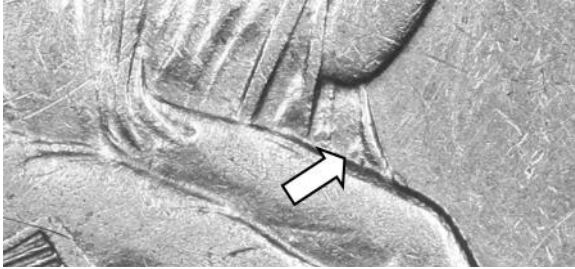
Reverse E

1855-O WB-7, Arrows

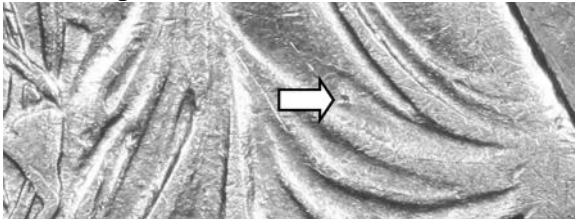
Obverse 7



- Date (photo)



- Lump in the drapery below Liberty's right elbow (photo)



- Scattered rust lumps on Liberty's gown prominently behind Liberty's right ankle (photo)
- Die cracks connecting stars 1-5 and another diagonally in the rock support to the left of the ribbon

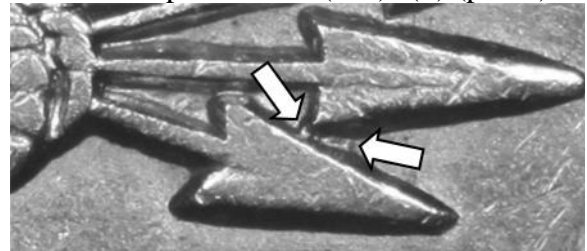
Reverse F



- Large O mintmark (photo)



- Small lump inside the (HA)L(F) (photo)



- Lower two arrowheads connected by die lines (photo)
- Clash in shield's lower right

This is the first use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-7, Arrows



Obverse 7



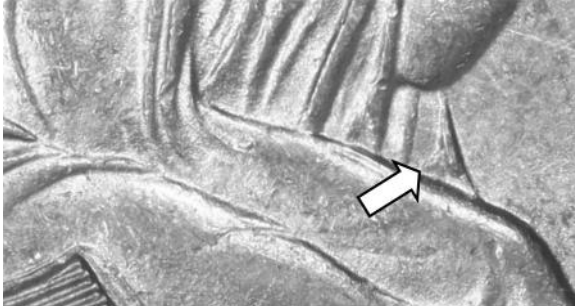
Reverse F

1855-O WB-8, Arrows

Obverse 7



- Date (photo)



- Lump in the drapery below Liberty's right elbow (photo)
- The rust lumps seen on the previous use of this die (WB-7) are not now visible.
- Very heavily cracked die – see next page for diagram of die cracks

Reverse G



- Large O mintmark high and close to the feather tip (photo)
- No prominent die characteristics except extensive die cracks – see next page for diagram of die cracks

This is the second and last use of this obverse die and first use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS62		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-8, Arrows



Obverse 7 (enhanced die cracks in photo at right)



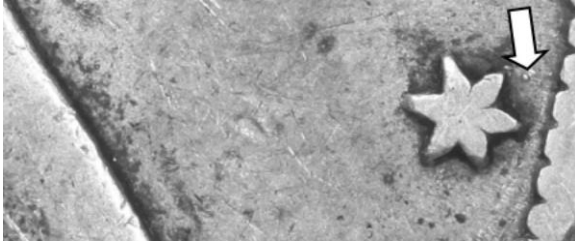
Reverse G (enhanced die cracks in photo at right)

1855-O WB-9, Arrows

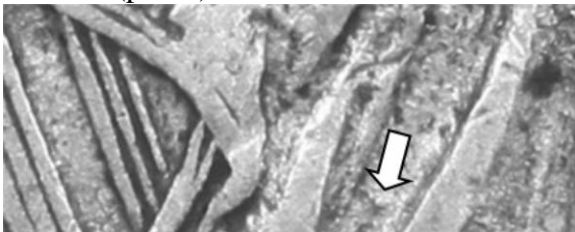
Obverse 8



- Date (photo)



- Small lumps between star 13 and the adjacent dentils (photo)

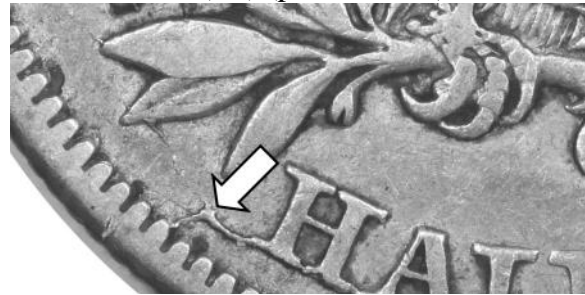


- Small lump in the skirt at the end of the scroll (photo)

Reverse G



- Large O mintmark high and close to the feather tip (photo)
- No prominent die characteristics except die cracks; heaviest die cracks are thru olive leaves to HA(LF) (photo below)



- Extensive die cracking – see next page for diagram of die cracks. This die marriage has the most heavily cracked reverse die of 1855-O.

This is the only use of this obverse die and second use of this reverse die.

Additional die diagnostics will likely be determined with discovery of another higher grade example of this die marriage.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: VF30		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-9, Arrows



Obverse 8



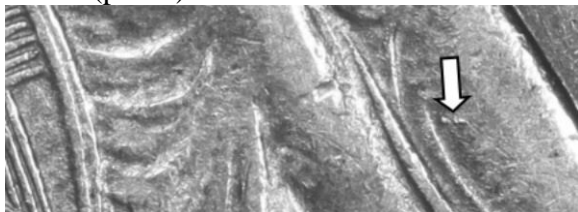
Reverse G (enhanced die cracks in photo at right)

1855-O WB-10, Arrows

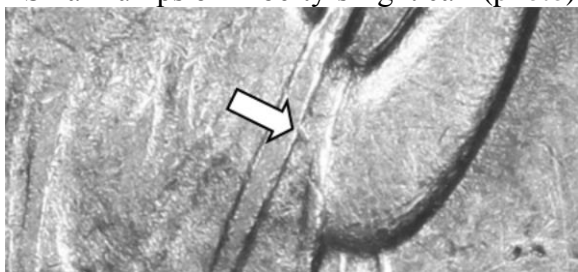
Obverse 9



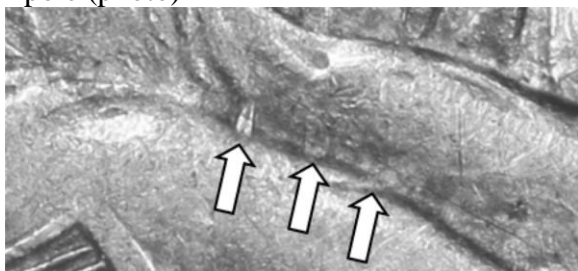
- Date (photo)



- Small lumps on Liberty's right calf (photo)



- Lump on Liberty's right arm adjacent to the pole (photo)



- Clash lines on Liberty's lap (photo)
- Weak die crack off end of Liberty's right foot to dentils and another thru stars 7-13
- Rusty lumps/ rough surfaces throughout Liberty

Reverse H



- Large O mintmark (photo)
- No prominent die characteristics
- Clash in shield's lower right

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1855-O
WB-10, Arrows**



Obverse 9 (enhanced die cracks in photo at right)



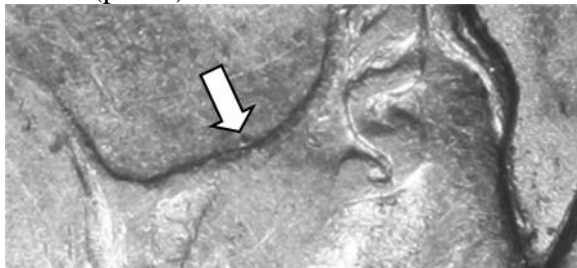
Reverse H

1855-O WB-11, Arrows

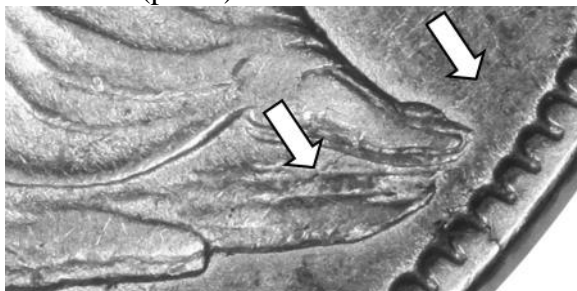
Obverse 10



- Date (photo)



- Small lump on Liberty's gown along the neckline (photo)

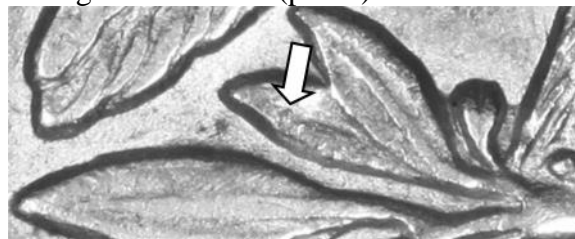


- Diagonal die crack thru Liberty's foot into rock support and to dentil at right (photo); other die cracks thru stars 3-4, head to star 8 to cap, and stars 10-13

Reverse I



- Large O mintmark (photo)



- Small lump on olive leaf #4 (photo)
- Unfinished along lower inside shield

This is the only use of this obverse die and first use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.202"	Rarity - 3
Draperies die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-11, Arrows



Obverse 10 (enhanced die cracks in photo at right)



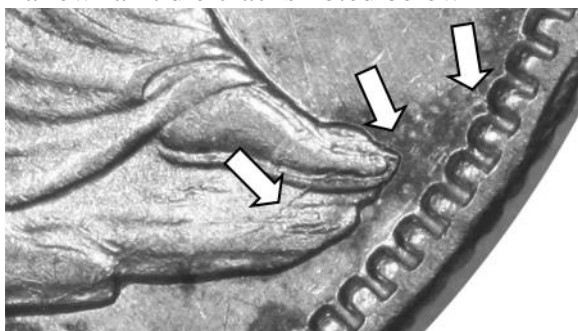
Reverse I

1855-O WB-12, Arrows

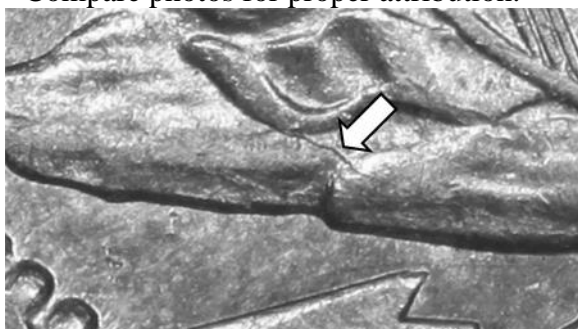
Obverse 11



- Date (photo)
- No readily identifiable die defects except for a few faint die cracks noted below



- Diagonal die crack thru Liberty's foot into rock support and to dentil at right (photo) (photo). At first appearance, this die crack matches that in WB-11 but is actually lower on Liberty's instep and into Liberty's sandal. Compare photos for proper attribution.

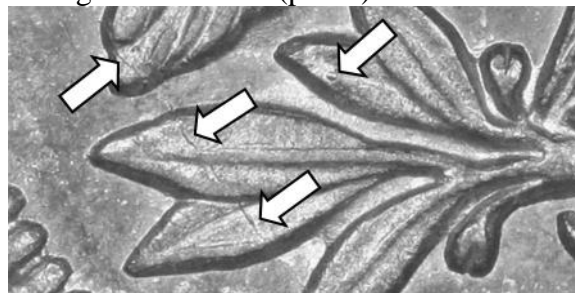


- Other die cracks in the rock support along the ribbon (photo) and another between stars 6-7

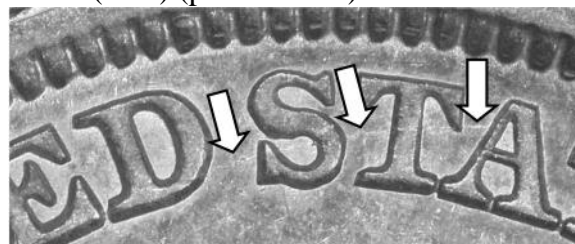
Reverse I



- Large O mintmark (photo)



- Small lump on olive leaf #4 (photo)
- Die cracks thru olive leaves #2-3 to the lower left wing tip (photo above); another die crack diagonally thru (UNITE)D STA(TES) (photo below)



- Unfinished along lower inside shield

This is the only use of this obverse die and second and last use of this reverse die.

Date grid: M1.5, .012"	143 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS61		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1855-O
WB-12, Arrows**



Obverse 11 (enhanced die cracks in photo at right)



Reverse I (enhanced die cracks in photo at right)

1855-O WB-13, Arrows

Obverse 12



- Date (photo)
- No readily identifiable die defects useful for die attribution

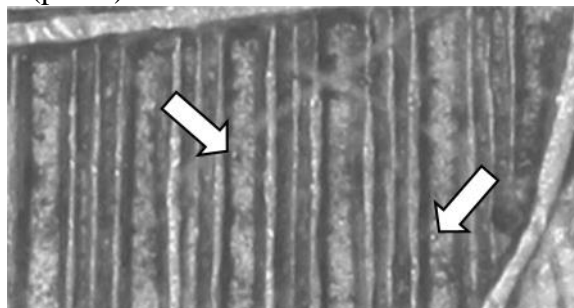
Reverse J



- Large O mintmark (photo)



- Small lump in the field above (UNIT)E(D) (photo)



- Scattered lumps in the recessed area of the shield between vertical shield lines C3-D1 and E3-F1 (photo)

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	148 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-13, Arrows



Obverse 12



Reverse J

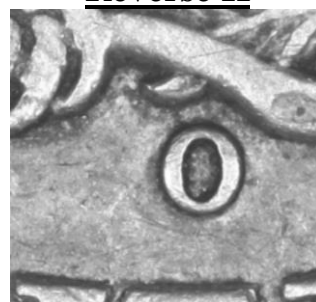
1855-O WB-14, Arrows

Obverse 13



- Date (photo)
- No readily identifiable die defects useful for die attribution
- Note: die crack-like appearances visible on the plate coin are actually toning disturbances and planchet defects.

Reverse K



- Large O mintmark (photo)



- Only example seen: die crack from dentil above U(NITED) thru olive leaf #2's tip thru HA(LF) to dentil below (H)A(LF) (photo)
- Note: the arching line at K-5 (see photo next page) may be a planchet flaw or the beginning of a die crack

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	148 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: VF30		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-14, Arrows



Obverse 13



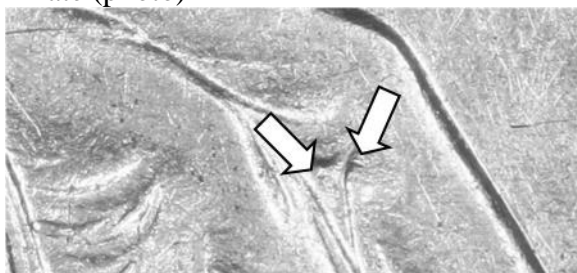
Reverse K (enhanced die cracks in photo at right)

1855-O WB-15, Arrows

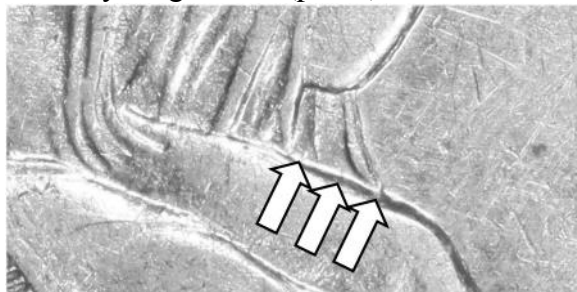
Obverse 14



- Date (photo)



- Two small lumps in the recessed area under Liberty's right knee (photo)

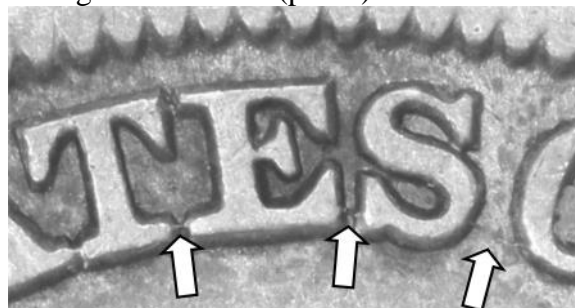


- All examples seen: strong clash lines across Liberty's lap in EDS fading in LDS to tine-like remnants from Liberty's right thigh (photo)

Reverse L



- Large O mintmark (photo)



- All examples seen: die crack along the base of legend UNITED STATES OF A(MERICA) and from upper arrowhead to (UNITE)D; (ST)ATES O(F) most prominent (photo). These die cracks are very weak in EDS and much strong in LDS.

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	148 reeds	Typical diameter = 1.197"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS - ANACS EF40 LDS - XF40		Coins from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-15, Arrows



Obverse 14



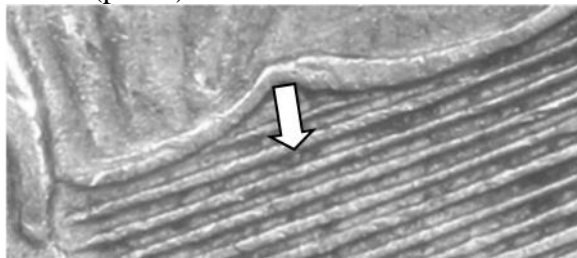
Reverse L (enhanced die cracks in photo at right)

1855-O WB-16, Arrows

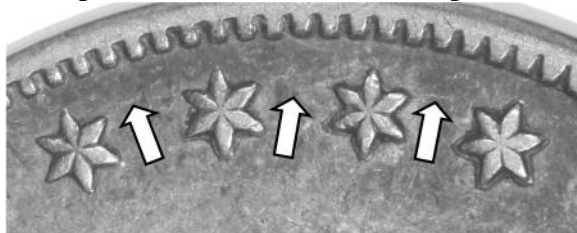
Obverse 15



- Date (photo)



- Small lump centered between the upper two complete horizontal shield lines (photo)



- Weak die cracks between stars 2-5 (photo)

Reverse M



- Large O mintmark (photo)
- No readily identifiable die defects useful for die attribution

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	Unknown reeds	Typical diameter = Unknown"	Rarity - 3
Draperies die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: NGC XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-16, Arrows



Obverse 15



Reverse M

1855-O WB-17, Arrows

Obverse 16



- Date (photo)

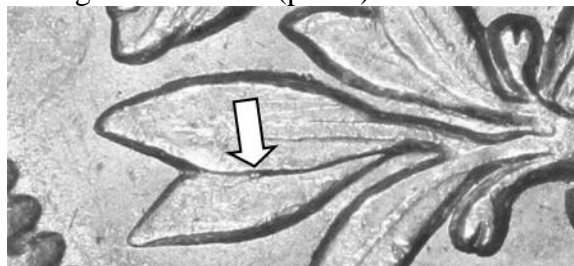


- EDS: uncracked; LDS with die crack between stars 1-4 and from Liberty's toe to the dentil near star 13 (photo)

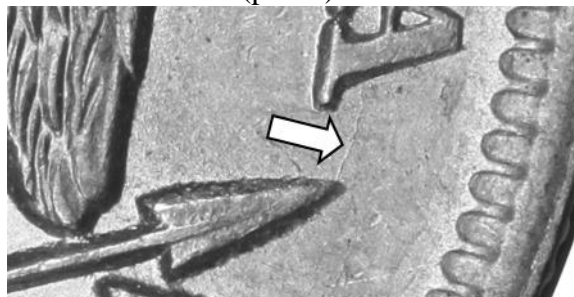
Reverse N



- Large O mintmark (photo)



- Small lump on the middle of the lower edge of olive leaf # 3 (photo)



- EDS: uncracked; LDS with die crack from upper arrowhead to (AMERIC)A (photo)
- Very high grade EDS coins have die lines in the dentils above OF A(MERICA).
- This reverse die is transitional with 1856-O (Reverse A).

This is the only use of this obverse die and only use of this reverse die in 1855.

Date grid: M1.5, .012"	148 reeds	Typical diameter = 1.203"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-17, Arrows



Obverse 16



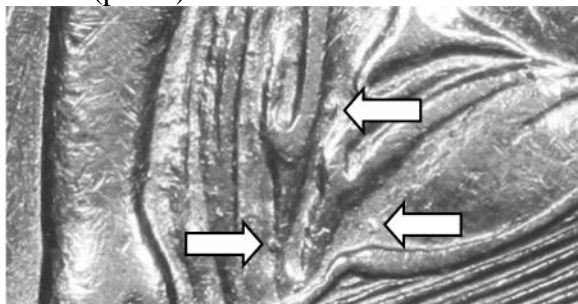
Reverse N

1855-O WB-18, Arrows

Obverse 17



- Date (photo)



- Multiple rust lumps on Liberty's gown prominently above the upper shield tip (photo)

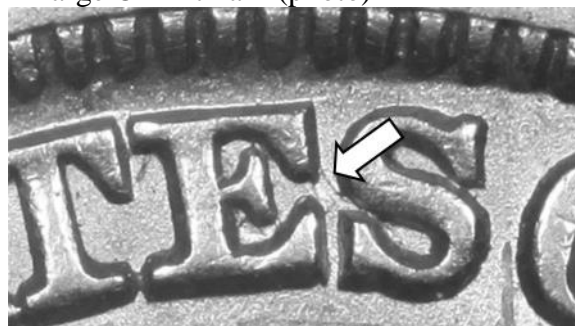


- Die cracks nearly around the entire circumference: notably from the rim at K-7 thru the rock to the left edge of the shield; another from the head to star 8 to rim to the cap (photo) thru stars 9-13 to Liberty's instep.
- Light clash lines in the drapery below Liberty's elbow

Reverse O



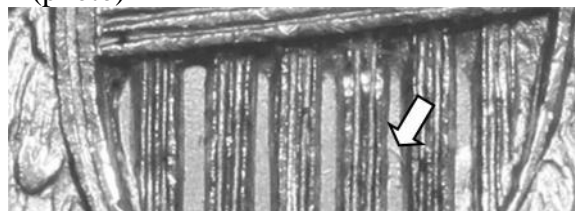
- Large O mintmark (photo)



- Die lines between (STAT)ES (photo)



- Die lines above and thru (AM)ER(ICA) (photo)



- Die line in the recessed area between vertical shield lines D-3 and E-1 (photo)

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	Unknown reeds	Typical diameter = 1.203"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: ANACS AU55 Details		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1855-O
WB-18, Arrows**



Obverse 17 (enhanced die cracks in photo at right)



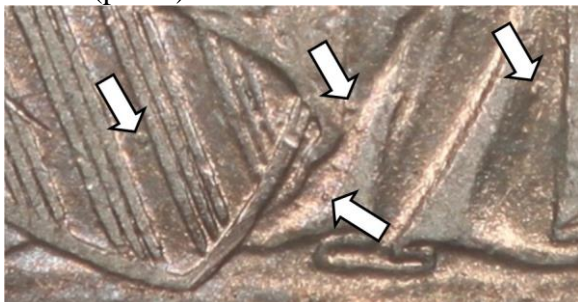
Reverse O

1855-O WB-19, Arrows

Obverse 18



- Date (photo)



- Multiple rust lumps on Liberty prominently in the lower shield and to the right of the scroll end (photo)

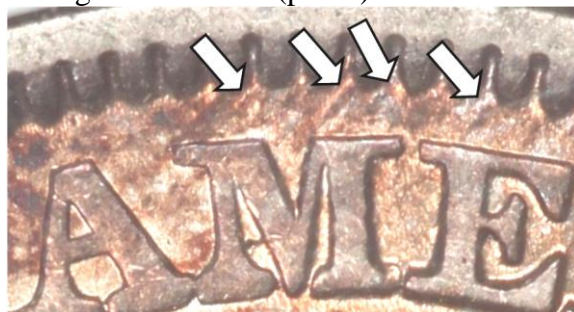


- Die crack thru the rock support to the rock (photo)

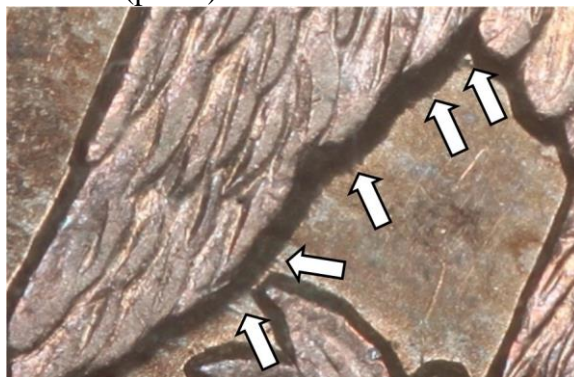
Reverse P



- Large O mintmark (photo)



- Die lines between letters (A)ME(RICA) and dentils (photo)



- Short tine-like die lines along the inside of the eagle's left leg (photo)

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .012"	Unknown reeds	Typical diameter = Unknown	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: ANACS XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1855-O
WB-19, Arrows



Obverse 18



Reverse P

1856-O

1856-O half dollars are common but they have some merit. With four different repunched dates, four different reed counts, and sufficient availability in all conditions to satisfy most collectors, it is worth a second look; especially if you search for an unknown date style (see next page).

Nineteen die marriages are known as depicted in the tables below and on the following pages.

Mintage	Number of Dies	Number of Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
2,658,000	Requested	-	*	*	4 (140, 141, 143, 148)
	Shipped	-	18*	8*	
	Known	19	12*	10*	

Note *: U.S. Archive's die shipment records are incomplete.

Notched 1. All 1856 half dollars have a notch in the lower right base of the 1. This includes all the obverse dies used on all 1856 half dollars from all mints: Philadelphia, New Orleans, and San Francisco. This feature is noticeable even on low grade coins.



In background, the dates and mintmarks for the Liberty Seated series were punched by hand or later, by a large screw, into the working dies at Philadelphia (hence, the date and mintmark placement variations). The dates were punched using a date gangpunch consisting of between two and four digits of the desired date on a punch (There has been some controversy over how many digits were on a date gangpunch but that is not addressed here.). The number of individual date gangpunches available for each year's use is unknown. Nevertheless, the punch used for 1856 had a defect in the shape of a notch in the lower right base of the 1 (photo). Logically, a notch on the date punch should be visibly apparent. Perhaps the punch was dropped prior to use and a "dent" was imparted. Perhaps the notch was intentionally affected as a signature of a mint employee. We will most likely never know but notched punches are known on another Liberty Seated half dollar date (one die for 1848-O) and on other series; early seated half dimes (see *Gobrecht Journal*, Volume 27, Number 80, pages 39-41), 1820 bust dimes, and early capped bust half dollars for instance.

This logotype was also used inter-denominationally and the notch also appears on 1856 large cents and \$10 and \$20 gold pieces.

Upright and Slanted 5. Does a slanted 5 in the date exist for 1856-P,O,S half dollars? I suspect it might. Large cent collectors are familiar with both styles for this date. The same size upright 5 date gangpunch with a notched 1 (possibly the exact same gangpunch) that was used for 1856 half dollars was also used for 1856 large cents.

An 1856 **upright 5** half dollar is depicted in the image at the right. Note the digit 5 in date stands upright; this is normal for all known 1856 half dollars regardless of mintmark.



An 1856 **slanted 5** large cent is depicted in the image at the right (courtesy of www.ha.com). Since the same upright 5 date gangpunch was used for 1856 half dollar and large cents, it is entirely possible that the slanted 5 date gangpunch that was used on 1856 large cents may also have been used for 1856 half dollars.



If so, the 1856 half dollar date would appear as the date at the right. To my knowledge, none currently does but there is a chance that it does exist. If an example is found, I believe it would be extremely rare. Keep this in mind during your collecting searches and please let me know if you find a genuine 1856-P,O,S half dollar with a slanted 5 in the date.











1856-O date grid quick reference table

Obverse die date grid	Die Marriage
L5.5, .011"	WB-1
L5.5, .011"	WB-2
L5.5, .012"	WB-6
M1 , .010"	WB-10
M1 , .010"	WB-11
M1 , .013"	WB-18
M1.5, .008"	WB-3
M1.5, .008"	WB-4
M1.5, .010"	WB-17
M1.5, .016"	WB-7
M1.5, .018"	WB-12
M1.5, .020"	WB-13
M2 , .012"	WB-9
M2 , .014"	WB-14
M2 , .016"	WB-5
M2 , .016"	WB-8
M2 , .016"	WB-15
M2.5, .010"	WB-19
M2.5, .014"	WB-16

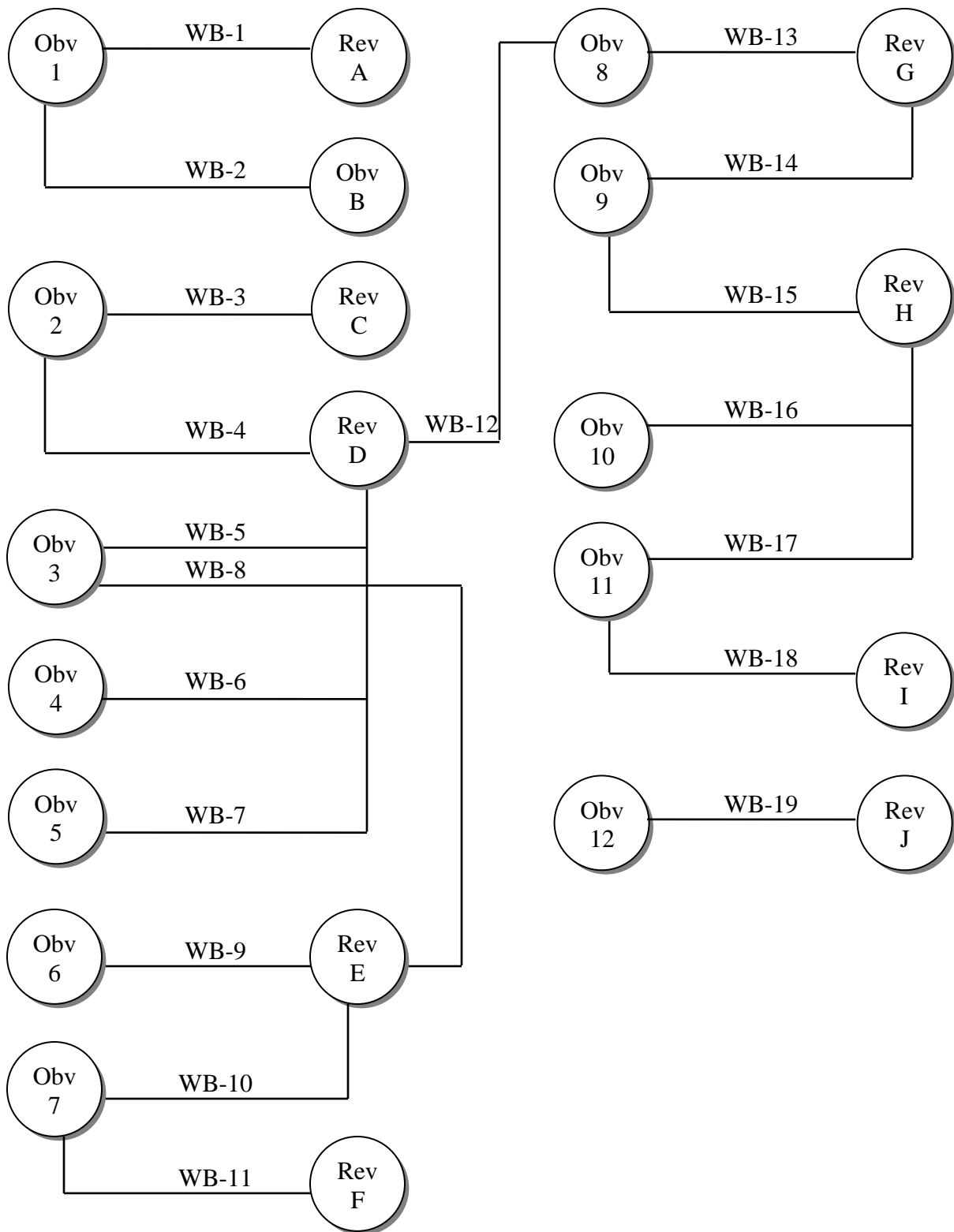
1856-O Obverse and Reverse die identification keys		Small lump on the middle of the lower edge of olive leaf # 3	Very weak die line in the eagle's feathers below the lower shield tip	No readily identifiable die diagnostics	Vertical die lines from olive leaf #5 into field below left wing	EDS: multiple die lines LDS: No identifiable die diagnostics	Scattered lines inside the left and right claws	Vertical die line within the upper left horizontal shield lines
		A	B	C	D	E	F	G
Many rust lumps on Liberty's skirt	1	WB-1	WB-2					
Rust lumps under Liberty's right armpit	2			WB-3	WB-4			
Tiny tine from upper left of serif of the 1	3				WB-5	WB-8		
Repunched 6	4				WB-6			
56 repunched south	5				WB-7			
Date obliquely double punched	6					WB-9		
Lump on the upright of the 1	7					WB-10	WB-11	
Repunched 6 and small lumps in Liberty's skirt	8				WB-12			WB-13

1856-O Obverse and Reverse die identification keys (Continued)		Vertical die line within the upper left horizontal shield lines	Diagonal die lines between the left wing and olive stem and berry	Two sets of die lines in the field along the eagle's left wing and along the left leg	Die lines within the lower shield
		G	H	I	J
56 repunched north	9	WB-14	WB-15		
Small lump in skirt between right scroll end and Liberty's foot	10		WB-16		
Small lumps to the right of Liberty's left elbow	11		WB-17	WB-18	
Date right	12				WB-19

1856-O Half Dollar Mintmark Positions

 <p>Reverse A, WB-1</p>	 <p>Reverse B, WB-2</p>	 <p>Reverse C, WB-3</p>
 <p>Reverse D, WB-4, 5, 6, 7, 12</p>	 <p>Reverse E, WB-8, 9, 10</p>	 <p>Reverse F, WB-11</p>
 <p>Reverse G, WB-13, 14</p>	 <p>Reverse H, WB-15, 16, 17</p>	 <p>Reverse I, WB-18</p>
 <p>Reverse J, WB-19</p>		

1856-O Half Dollar Die Linkage Diagram

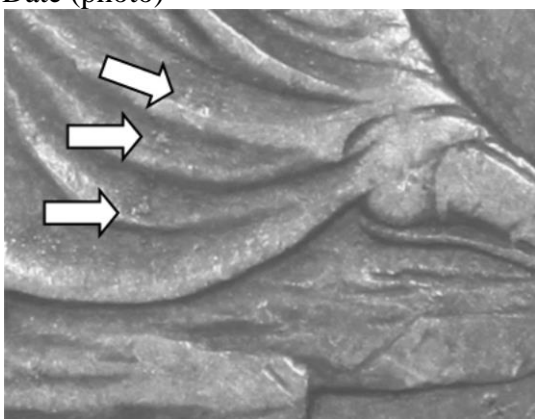


1856-O WB-1

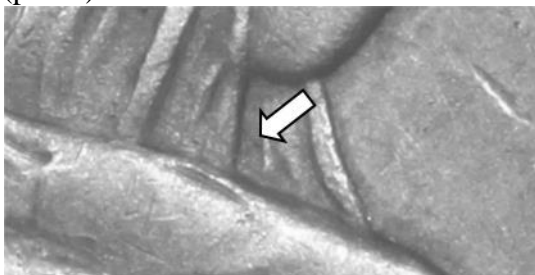
Obverse 1



- Date (photo)



- Rust lumps on Liberty's skirt behind her heel (photo)

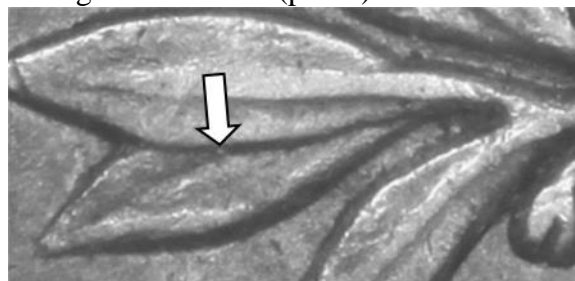


- Diagonal (NW to SE) die line in the drapery below Liberty's right elbow (photo)

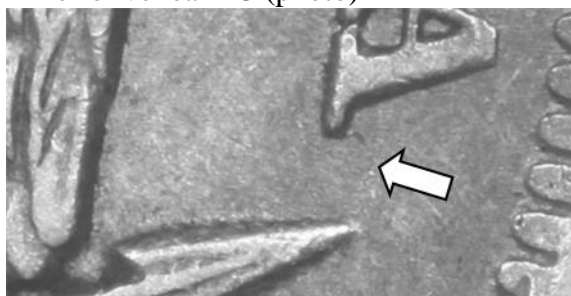
Reverse A



- Large O mintmark (photo)



- Small lump on the middle of the lower edge of olive leaf # 3 (photo)



- LDS: die cracks along top of letters UNIT(ED) and from upper arrowhead to (AMERIC)A (photo)
- This reverse die is transitional with 1855-O (Reverse M).

This is the first use of this obverse die and only use of this reverse die.

This 1856-O die marriage is the only one with 148 reeds.

Date grid: L5.5, .011"	148 reeds	Typical diameter = 1.203"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-1**



Obverse 1



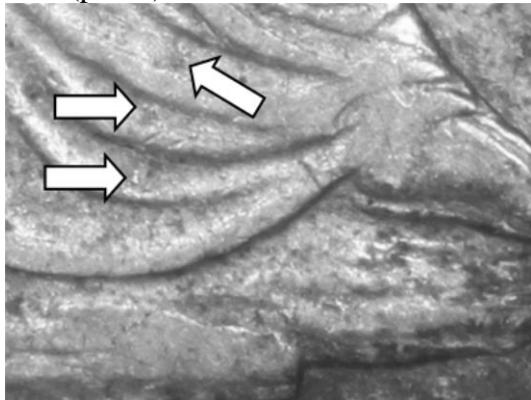
Reverse A

1856-O WB-2

Obverse 1



- Date (photo)

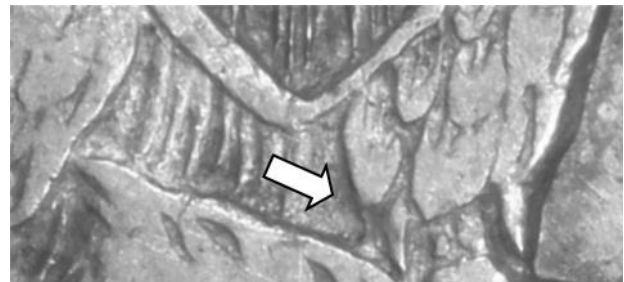


- Rust lumps on Liberty's skirt behind her heel (photo)
- The die line in Liberty's drapery seen on the previous use of this obverse die (WB-1) is not now visible.
- Faint clash mark in the field to right of Liberty's drapery

Reverse B



- Large O mintmark (photo)
- There are no prominent die diagnostics for this reverse die.



- Very weak die line in the eagle's feathers below the lower shield tip (photo)

This is the second use of this obverse die and only use of this reverse die.

Date grid: L5.5, .011"	143 reeds	Typical diameter = 1.201"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-2**



Obverse 1



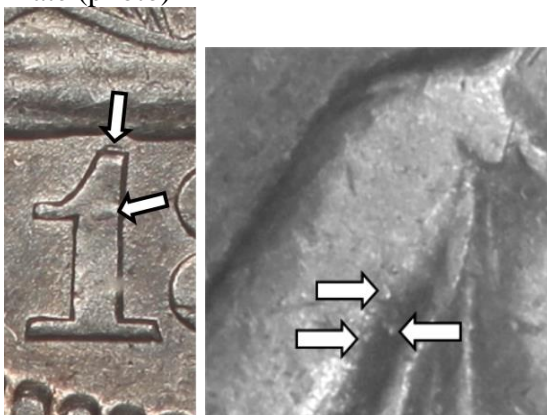
Reverse B

1856-O WB-3, Repunched 1

Obverse 2



- Date (photo)



- Repunched 1 south and lump on the upright of the 1 (photo above left and far above) and rust lumps under Liberty's right armpit (photo above right)

Reverse C



- Large O mintmark (photo)
- EDS: no readily identifiable die diagnostics
- LDS: weak die clash in shield's lower right and die cracks along top of letters UNIT(ED) and from upper arrowhead to (AMERIC)A

This is the first use of this obverse die and only use of this reverse die.

Date grid: M1.5, .008"	143 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coins depicted: PCGS XF40		Coins from the Bill Bugert Collection and the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-3, Repunched 1**



Obverse 2



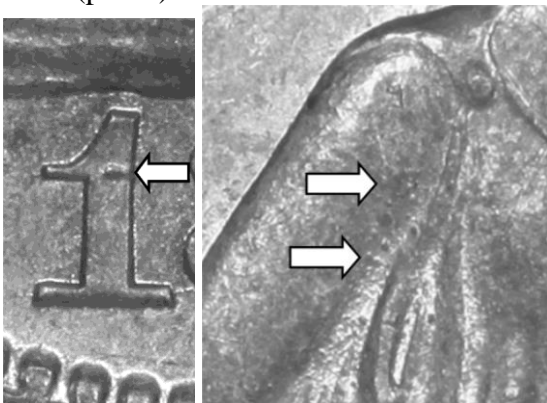
Reverse C (enhanced die cracks in photo at right)

1856-O WB-4

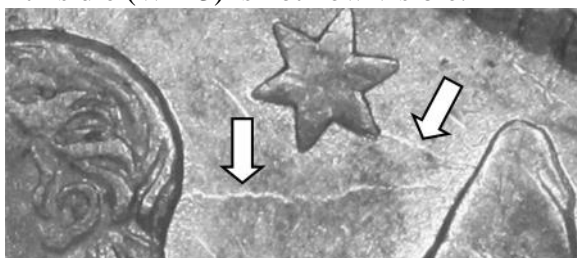
Obverse 2



- Date (photo)



- Lump on the upright of the 1 (photo above left and far above) and rust lumps under Liberty's right arm pit (photo above right)
- The repunched 1 seen on the previous use of this die (WB-3) is not now visible.

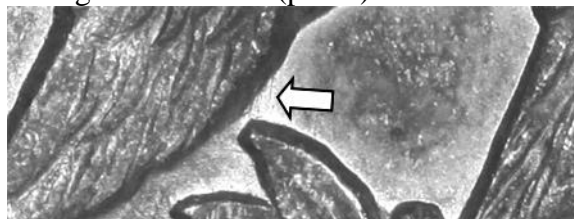


- Die cracks between stars 1-3, 8 to cap to star 9, between stars 10-12, and head to cap (photo). Weaker die crack from the instep of Liberty's foot into field towards star 13

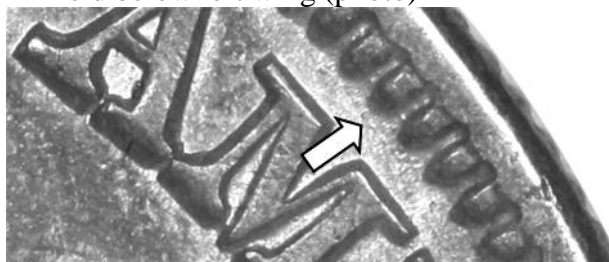
Reverse D



- Large O mintmark (photo)



- Vertical die lines from olive leaf #5 into field below left wing (photo)



- Dotted rust line above (A)M(ERICA) (photo)
- Weak vertical die line between the reverse vertical shield lines D-3 and E-1
- Weak vertical die line inside the eagle's beak

This is the second use of this obverse die and first use of this reverse die.

Date grid: M1.5, .008"	143 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-4**



Obverse 2 (enhanced die cracks in photo at right)



Reverse D

1856-O WB-5, Repunched 6

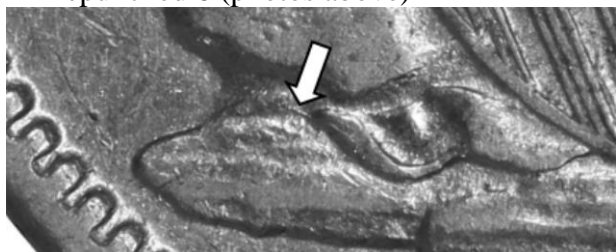
Obverse 3



- Date (photo)



- Repunched 6 (photos above)

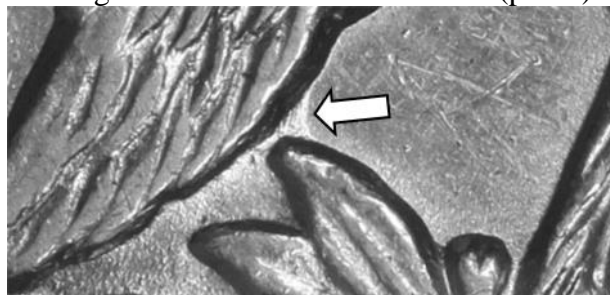


- All examples seen: small die crack from ribbon tip into the rock support (photo)

Reverse D



- Large O mintmark low in the field (photo)



- Vertical die lines from olive leaf #5 into field below left wing (photo)
- EDS: unclashed; LDS: clash in shield's lower right and in the field above the right claw

This is the only use of this obverse die and second use of this reverse die.

Date grid: L5.5, .012"	143 reeds	Typical diameter = 1.202"	Rarity - 4
Draperies die state: Full to Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Randy Wiley Collection	
Cross reference: WB-104.		Version 1.325	

1856-O
WB-5, Repunched 6



Obverse 3



Reverse D

1856-O WB-6

Obverse 4



- Date (photo)

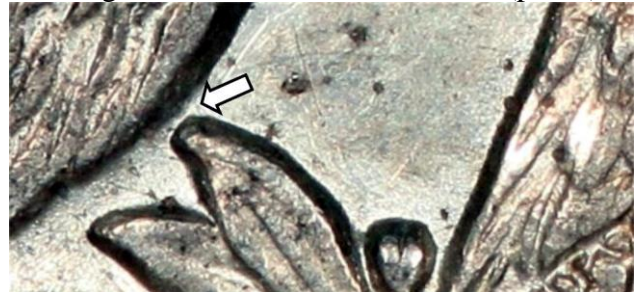


- Tiny tine from upper left of serif of the 1 (photo above left)
- Small tine from the dentil below the right edge of the 6 (photo above right)

Reverse D



- Large O mintmark low in the field (photo)



- Vertical die lines from olive leaf #5 into field below left wing (photo)



- Small die line from the dentil above (A)M(ERICA) (photo)
- Clash in shield's lower right and in the field above the right claw

This is the first use of this obverse die and third use of this reverse die.

Date grid: M2, .014"	143 reeds	Typical diameter = 1.201"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-6**



Obverse 4



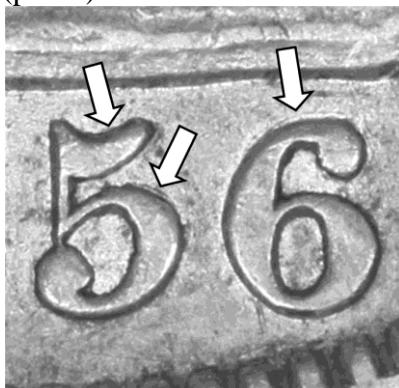
Reverse D

1856-O WB-7, Repunched 56

Obverse 5



- Date (photo)



- 56 repunched south (photo)



- Small lump on Liberty's right calf (photo)

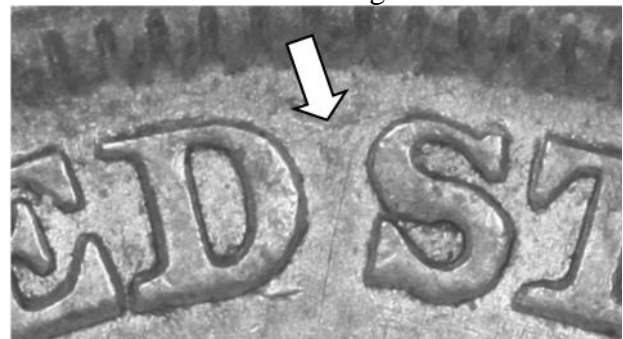


- Two small lumps in Liberty's skirt to the right of the lower edge of the scroll (photo)

Reverse D



- Large O mintmark low in the field (photo)
- The vertical die lines from olive leaf #5 into field below left wing seen in the previous uses of this die (WB-4 and WB-5) are not visible on this die marriage.



- Weak die cracks along the top of letters UNI(TED) and between (UNITE)D S(TATES) (photo)
- Second clash in shield's lower right overlaps the first clash seen on the previous use of this die (WB-6). This second clash is higher than the first.

This is the only use of this obverse die and fourth use of this reverse die.

Date grid: M1.5, .016"	143 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Randy Wiley Collection	
Cross reference: WB-104.		Version 1.325	

1856-O
WB-7, Repunched 56



Obverse 5



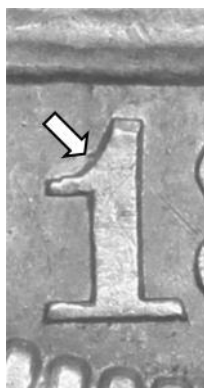
Reverse D

1856-O WB-8

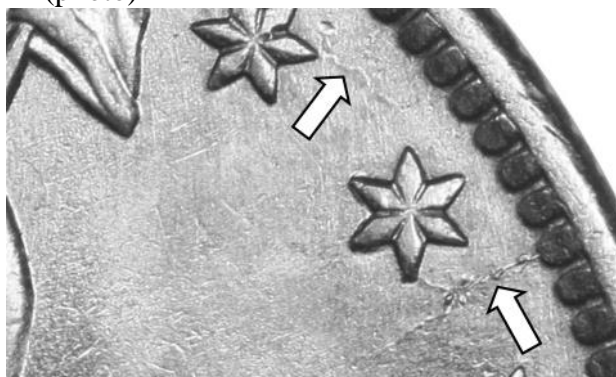
Obverse 3



- Date (photo)



- Tiny tine from upper left of serif of the 1 (photo)

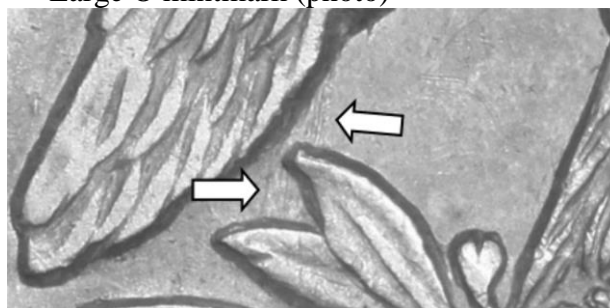


- LDS: die crack from dentil into field between stars 10-11 and to star 9 (photo)
- Clash in drapery below Liberty's elbow

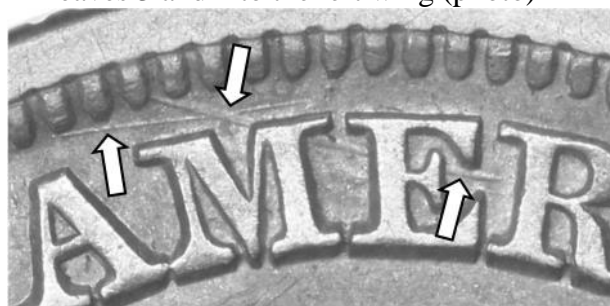
Reverse E



- Large O mintmark (photo)



- Vertical die lines between the tips of olive leaves 3 and 4 to the left wing (photo)



- Crossed die lines from dentils above and thru (A)ME(RICA) (photo). These die lines fade with die wear.
- Other die lines in the recessed area near the lower arrowhead

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .016"	143 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: AU50 LDS: AU58		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-8**



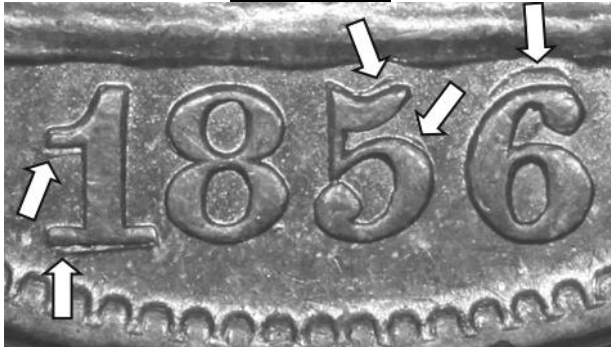
Obverse 3



Reverse E

1856-O WB-9, Doubled Date

Obverse 6



- Date obliquely double punched (slanting up to the right) (photo above); LDS: doubling on date weak (photo below)



- MDS to LDS: clash in the drapery below Liberty's right elbow
- LDS: No drapery below Liberty's elbow

Reverse E



- Large O mintmark (photo)
- The die lines seen in the previous use of this die (WB-8) are not now visible.
- MDS to LDS: clash in shield's lower right
- LDS: die crack along base of letters DOL

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .012"	EDS: 140 reeds LDS: 143 reeds	Typical diameter = 1.200"	EDS 140 reeds: Rarity - 2 LDS 143 reeds: Rarity - 5
Drapery die state: Full to none	Foot support: Full to weak	Dentils: Obverse - Full to weak Reverse - Full	
Grade of coin depicted: MS61		Coins from the Randy Wiley Collection	
Cross reference: WB-102.		Version 1.325	

1856-O
WB-9, Doubled Date



Obverse 6



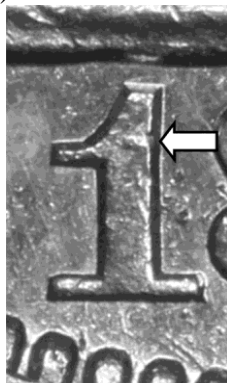
Reverse E

1856-O WB-10

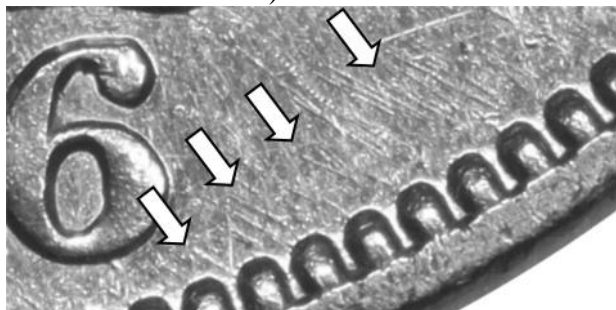
Obverse 7



- Date (photo)



- Lump on the upright of the 1 (photo above left and far above)

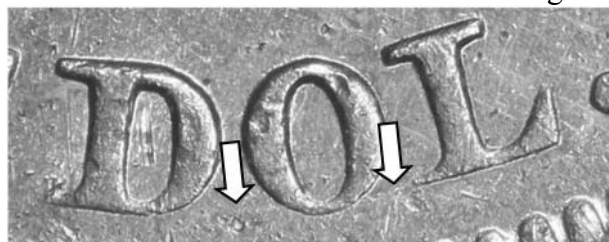


- Many diagonal (NW to SE) die lines along the dentils from K-5 to K-7 (right of date in photo above)
- Clash in drapery below Liberty's right elbow

Reverse E



- Large O mintmark (photo)
- The die lines seen in a previous use of this die (WB-8) are not now visible.
- All die states: clash in shield's lower right



- Very weak die crack along the bottom of letters DOL (photo)

This is the first use of this obverse die and third and last use of this reverse die.

Date grid: M1, .010"	143 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-10**



Obverse 7



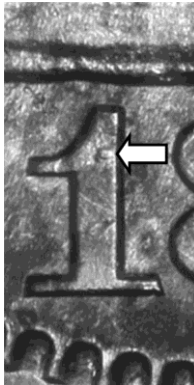
Reverse E

1856-O WB-11

Obverse 7



- Date (photo)

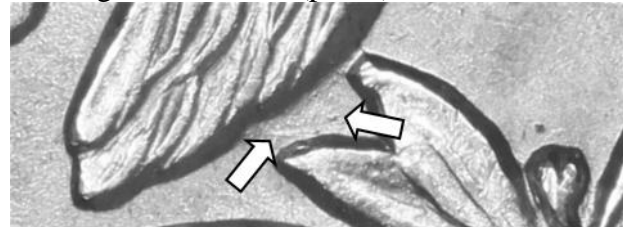


- Lump on the upright of the 1 (photo above left and far above)
- The diagonal die lines along the dentils from K-5 to K-7 seen in the previous use of this die (WB-10) are not now visible.
- Clash in drapery below Liberty's right elbow

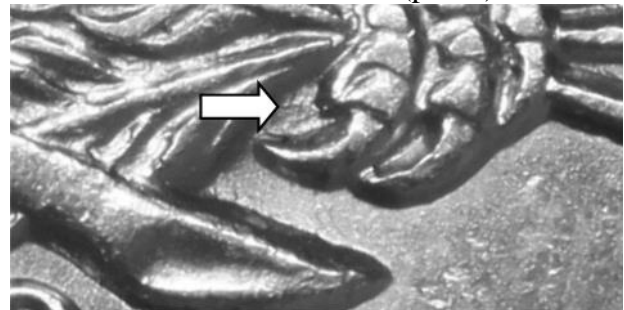
Reverse F



- Large O mintmark (photo)



- Small lumps and lines between the left wing and olive leaves #4 and #5 (photo)



- Scattered lines inside the left and right claws (photo)
- Weak clash in shield's lower right

This is the second use of this obverse die and only use of this reverse die.

Date grid: M1, .010"	143 reeds	Typical diameter = 1.204"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-11**



Obverse 7



Reverse F

1856-O WB-12, Repunched 6

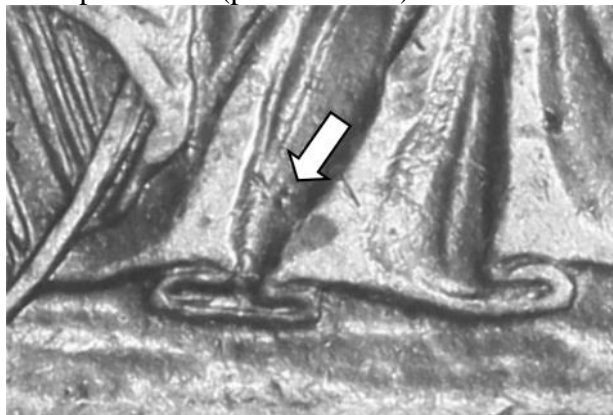
Obverse 8



- Date (photo)



- Repunched 6 (photos above)

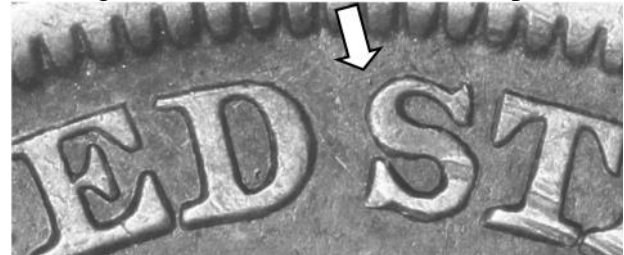


- Small lumps in Liberty's skirt to the right of the lower shield (photo)

Reverse D



- Large O mintmark low in the field (photo)



- Weak die crack along the top of letters UNITED, between (UNITE)D S(TATES) (photo), and above (AME)RICA
- Second clash in shield's lower right overlaps the first clash seen on the previous use of this die (WB-6). This second clash is higher than the first.

This is the first use of this obverse die and fifth and last use of this reverse die.

Date grid: M1.5, .018"	141 reeds	Typical diameter = 1.199"	Rarity - 3
Draper die state: Full	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-104.		Version 1.325	

1856-O
WB-12, Repunched 6



Obverse 8



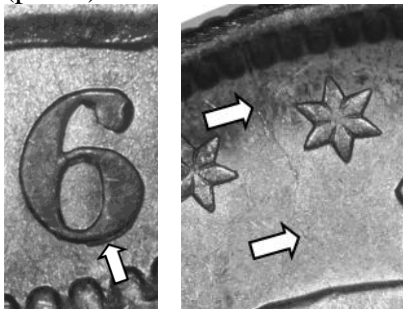
Reverse D

1856-O WB-13, Repunched 6

Obverse 8



- Date (photo)



- EDS: repunched 6 (photo above left); LDS: the repunching is not visible
- LDS: radial die crack from dentil between stars 6-7 to Liberty's left shoulder (photo above right)



- Small lumps in Liberty's skirt to the right of the lower shield (photo) that fade with die state
- EDS: clash mark in the drapery below Liberty's right elbow and in the field to right

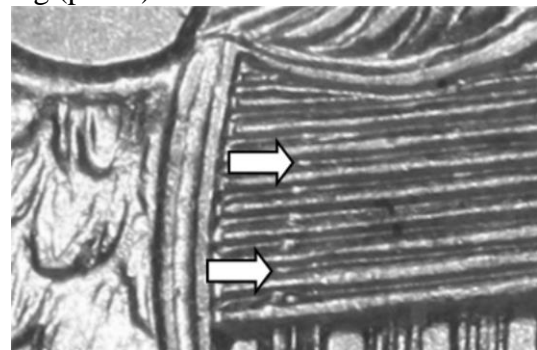
Reverse G



- Large O mintmark (photo)



- Die lines between the left wing and olive leaves #4 and #5 and along the eagle's left leg (photo)



- Vertical die line within the upper left horizontal shield lines (photo)
- Other minor die lines between the legend and the dentils; many fade with die state
- Clash in shield's lower right

This is the second use of this obverse die and first use of this reverse die.

Date grid: M1.5, .020"	141 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Full	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: MS64, LDS: MS61		Coins from the Randy Wiley Collection	
Cross reference: WB-104.		Version 1.325	

1856-O
WB-13, Repunched 6



Obverse 8 (enhanced die cracks in photo at right)



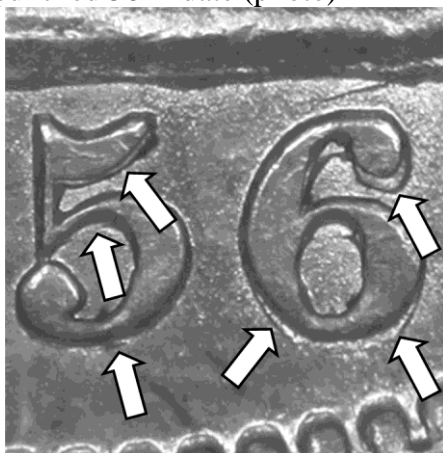
Reverse G

1856-O WB-14, Repunched 56

Obverse 9



- Repunched 56 in date (photo)



- 56 repunched north (photos above). Remnants of the first punching shows on the lower edges of the figures 56.

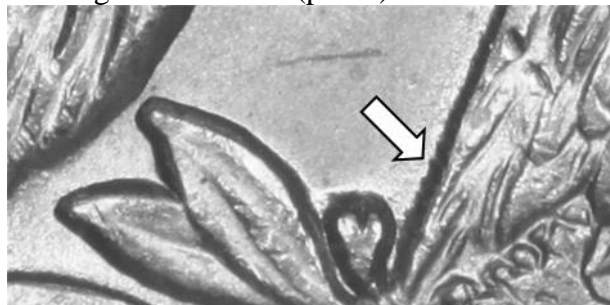


- “Sunrise” die cracks from above figures 1 and 6 into rock support (photo)
- Liberty is slightly rusty.

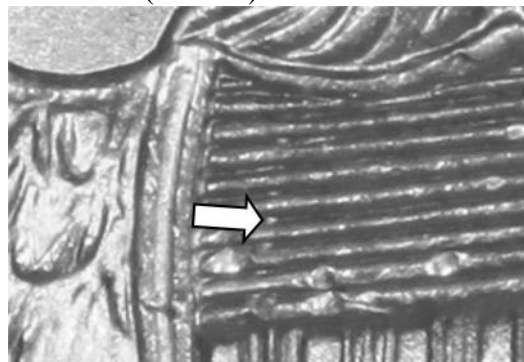
Reverse G



- Large O mintmark (photo)



- Die lines along the eagle's left leg (photo). The die lines between the left wing and olive leaves #4 and #5 as seen on the previous use of this die (WB-13) are not now visible.



- Vertical die line within the upper left horizontal shield lines (photo). This die line fades with die state.
- Clash in shield's lower right

This is the first use of this obverse die and second and last use of this reverse die.

Date grid: M2, .014"	143 reeds	Typical diameter = 1.203"	Rarity - 2
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: NGC MS61		Coin from the Bill Bugert Collection	
Cross reference: WB-103.		Version 1.325	

1856-O
WB-14, Repunched 56



Obverse 9 (enhanced die cracks in photo at right)



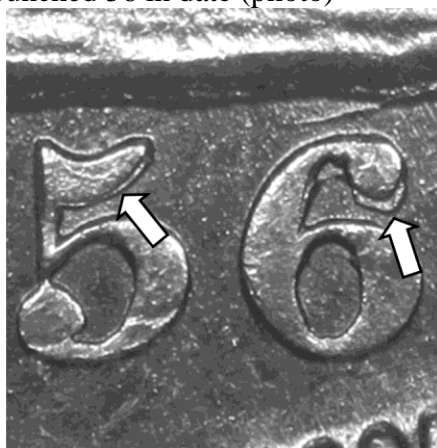
Reverse G

1856-O WB-15, Repunched 56

Obverse 9



- Repunched 56 in date (photo)



- 56 repunched north (photos above). Remnants of the first punching shows on the lower edges serif of the 5 and knob of the 6.

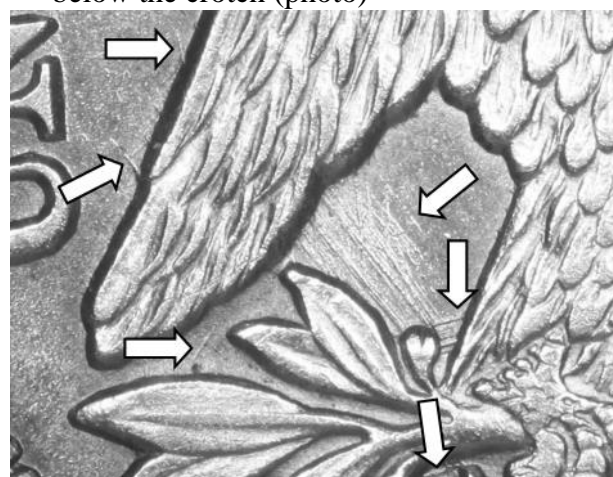


- “Sunrise” die cracks from above figures 1 and 6 into rock support (photo) now also into the rock and into the field above the foot
- Liberty is slightly rusty.

Reverse H



- Large O mintmark very high in the field below the crotch (photo)



- Many scattered crisscrossed and diagonal die lines to the left of and under the left wing and olive stem (photo). Other faint diagonal die lines above and thru UNITED
- Clash in shield’s lower right

This is the second and last use of this obverse die and first use of this reverse die.

Date grid: M2, .016”	143 reeds	Typical diameter = 1.203”	Rarity - 3
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Randy Wiley Collection	
Cross reference: WB-103.		Version 1.325	

1856-O
WB-15, Repunched 56



Obverse 9 (enhanced die cracks in photo at right)



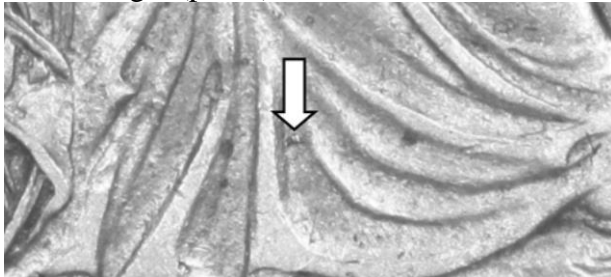
Reverse H

1856-O WB-16

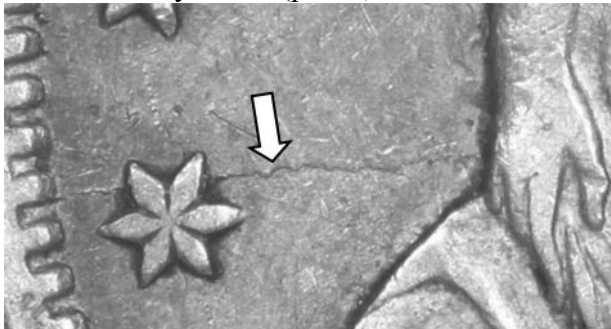
Obverse 10



- Date right (photo)



- Small lump in skirt between right scroll end and Liberty's foot (photo)

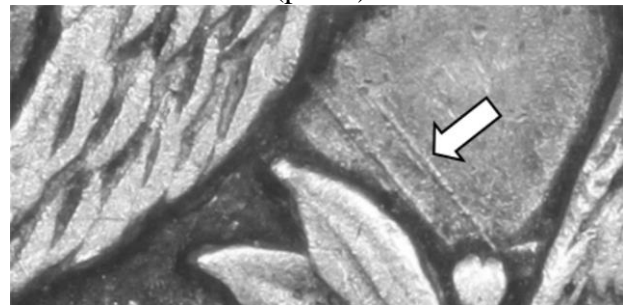


- LDS: radial die crack from dentil thru star 1 to Liberty's left hand (photo)
- Weak clash in the drapery below Liberty's right elbow

Reverse H



- Large O mintmark very high in the field below the crotch (photo)



- Diagonal die lines between the left wing and olive stem and berry (photo). Many of the crisscrossed die lines seen in the previous use of this die (WB-15) are not now visible.
- Clash in shield's lower right

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2.5, .014"	143 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-16**



Obverse 10 (enhanced die cracks in photo at right)



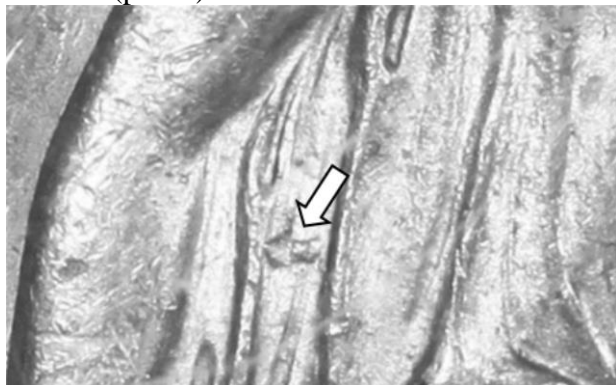
Reverse H

1856-O WB-17

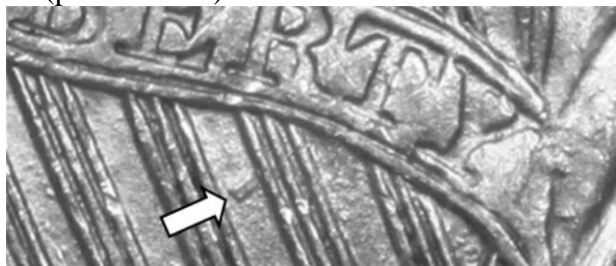
Obverse 11



- Date (photo)



- Many small lumps on Liberty prominently to the right of Liberty's left elbow (photo above) and in the shield below (LIB)ER(TY) (photo below)

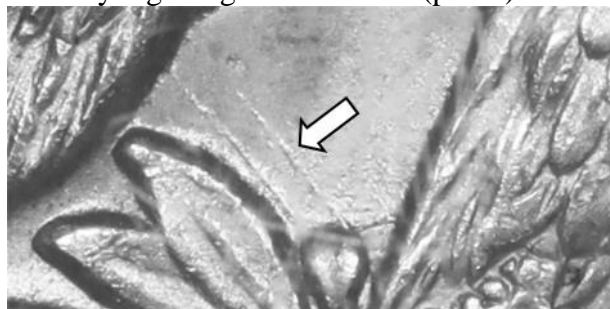


- This lump in the shield may possibly be an errant digit of the date. Additional study is required.

Reverse H



- Very high large O mintmark (photo)



- Diagonal die lines between the left wing and olive stem and berry (photo)



- Die crack along the top of letters UNITED and connecting the base of letters (UNITE)D ST(ATES)
- Clash in shield's lower right
- Small rust lumps on the eagle

This is the first of this obverse die and third use of this reverse die.

One example was seen with a 10° reverse rotation.

Date grid: M1.5, .010"	141 reeds	Typical diameter = 1.199"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS MS62		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-17**



Obverse 11



Reverse H (enhanced die cracks in photo at right)

1856-O WB-18

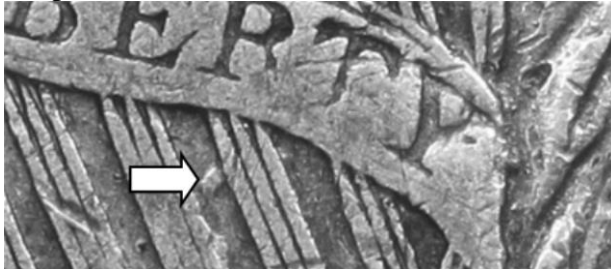
Obverse 11



- Date (photo)



- Many small lumps on Liberty prominently to the right of Liberty's left elbow (photo above) and in the shield below (LIB)ER(TY) (photo below)

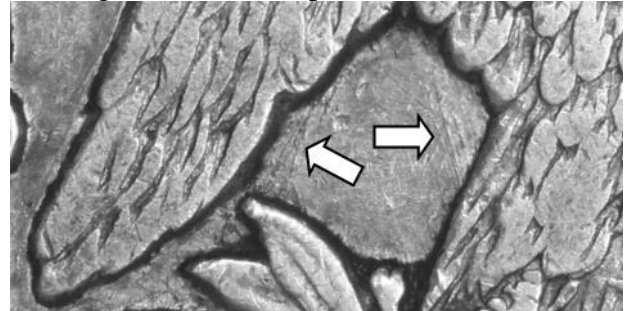


- This lump in the shield may possibly be an errant digit of the date. Additional study is required.

Reverse I



- Large O mintmark (photo)



- Two sets of die lines in the field along the eagle's left wing and along the left leg (photo)
- Clash in shield's lower right
- One example that appears to be a LDS of this die was seen without the die lines below the left wing. It is unknown whether it is a new die or a late die state without the die lines. Additional examples need to be studied to determine its status.

This is the second and last use of this obverse die and only use of this reverse die.

Date grid: M1, .013"	141 reeds	Typical diameter = 1.198"	Rarity - 4
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: VF25		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1856-O
WB-18**



Obverse 11



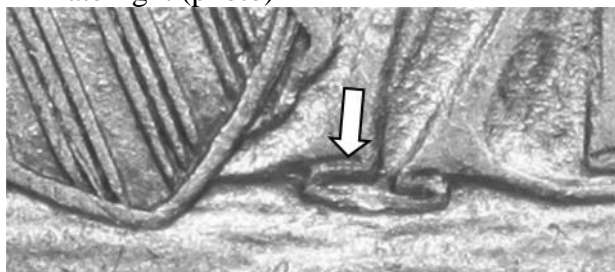
Reverse 1

1856-O WB-19, Doubled Die Obverse

Obverse 12



- Date right (photo)

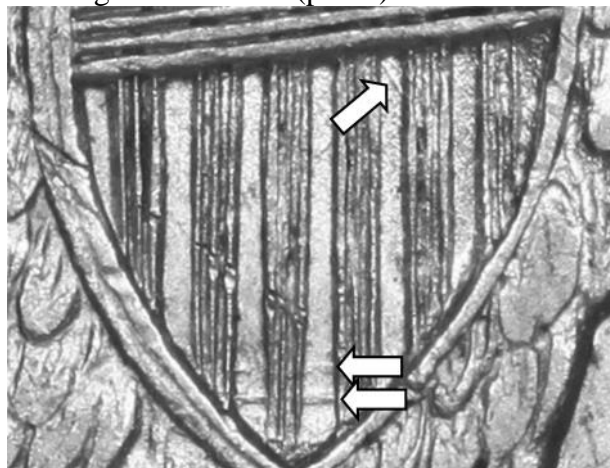


- **Doubled die obverse.** The lower skirt loop is prominently doubled as seen above (photo) as are the left ends of the horizontal shield lines and portions of the shield and skirt.
- Liberty is slightly rusty.

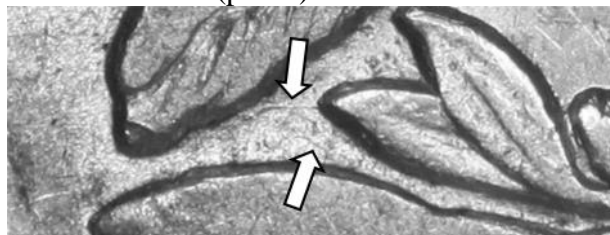
Reverse J



- Large O mintmark (photo)



- Multiple die lines within the lower shield: two horizontal lines at the bottom and another diagonal line between shield lines D-3 and E-1 (photo)



- Scattered die lines between the tip of olive leaf #4 and the eagle's left wing (photo)
- This reverse die is transitional with 1857-O (reverse A).

This is the only use of this obverse die and only use of this reverse die.

Date grid: M2.5, .010"	143 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1856-O
WB-19, Doubled Die Obverse



Obverse 12



Reverse J

1857-O

With a mintage below a million and only seven die marriages, this date is usually not given a second look. In fact, 1857-O has the lowest mintage of the late date New Orleans half dollars. The die marriages are easy to tell apart but that is about as easy as it will get. Finding them all will be challenging; this is one date that you will not see as frequently as you might think.

Seven die marriages are known as depicted in the tables below and on the following pages.

Mintage	Number of Dies	Number of Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
818,000	Requested	-	8	?*	1 (140)
	Shipped	-	8	?*	
	Known	7	8	3	

Note *: U.S. Archive's die shipment records are incomplete.

Date logotypes. Two date logotypes are frequently cited to exist for 1857-O, the 18 connected and the 18 not connected (see photos below).



Logotype 1 = 18 not connected



Logotype 2 = 18 connected

Close scrutiny of both date styles reveals the 18 connected by a line at the lower right base of the 1 with the lower loop of the 8 on some 1857-O obverse dies. This observation may lead you to believe that the working dies for this date were made with two different date logotype punches. In actuality, I believe the connecting line between the 18 shows only on those dies where the date was heavily impressed into the die or the connecting line of coins of this logotype wore off with die wear. Credibility to this theory is that WB-7's obverse die #6 exists with both the 18 not connected and the 18 connected (see photos below).



1857-O WB-7 - 18 not connected



1857-O WB-7 - 18 connected

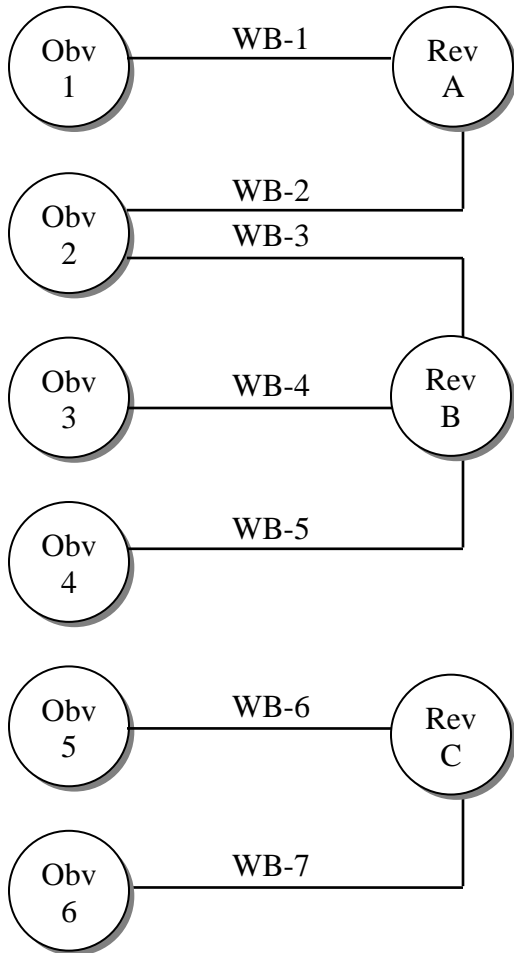
1857-O date grid quick reference table

Obverse die date grid	Die Marriage
M3 , .016"	WB-7
M4 , .012"	WB-1
M4 , .018"	WB-6
M4.5, .012"	WB-5
M4.5, .013"	WB-4
M5 , .015"	WB-3
M5.5, .013"	WB-2

1857-O Half Dollar Mintmark Positions



1857-O Half Dollar Die Linkage Diagram



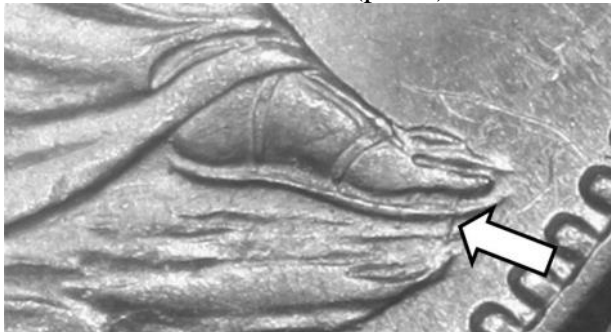
1857-O Obverse and Reverse die identification keys		Die lines within the lower shield	Die line in the eagle's feathers below the shield	Vertical die line in the eagle's mouth
		A	B	C
Vertical die line into rock support from Liberty's toe	1	WB-1		
Small die lines in the rock support	2	WB-2	WB-3	
Date repunched north	3		WB-4	
Die crack from dentil into field between stars 10-11	4		WB-5	
Date was punched into the rock support	5			WB-6
Date far left	6			WB-7

1857-O WB-1

Obverse 1



- Date with 18 connected (photo)

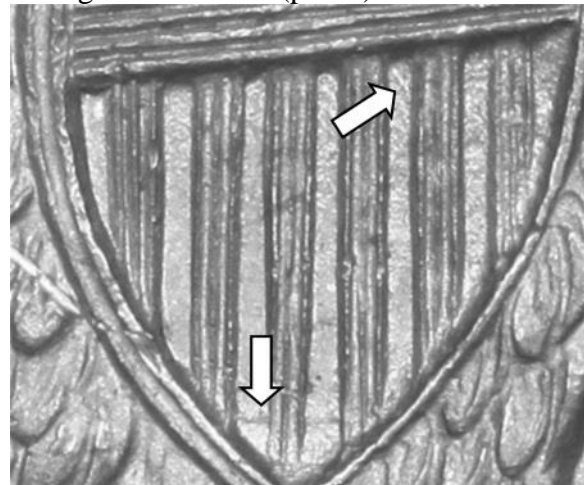


- Vertical die line into rock support from Liberty's toe (photo)
- LDS: die crack s between stars 1-3 and from Liberty's head to cap

Reverse A



- Large O mintmark (photo)



- Multiple die lines within the lower shield: horizontal lines at the bottom and another diagonal line between shield lines D-3 and E-1 (photo)
- Scattered die lines between the tip of olive leaf #4 and the eagle's left wing much weaker than on the previous use of this die (1856-O WB-19)
- This reverse die is transitional with 1856-O (reverse J).

This is the only use of this obverse die and first use of this reverse die.

Date grid: M4, .012"	140 reeds	Typical diameter = 1.206"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: Proof-like MS64		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1857-O
WB-1**



Obverse 1



Reverse A

**1857-O
WB-2**

Obverse 2



- Date right with 18 not connected (photo)



- Tine off left end of serif of the 1 (photo)

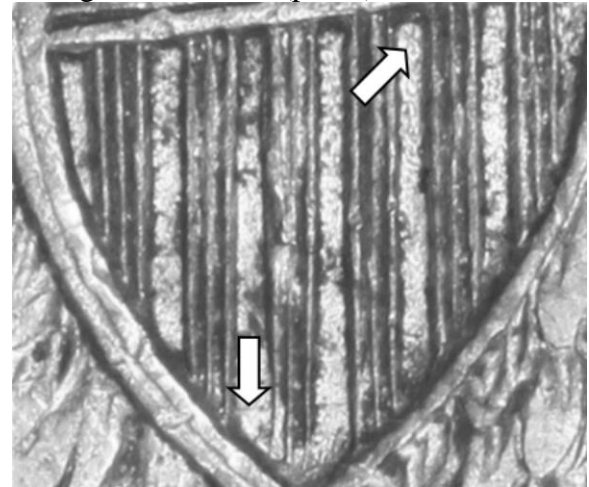


- Small die lines in the rock support along the SE corner of the right skirt fold and in the rock support below Liberty's foot (photo)

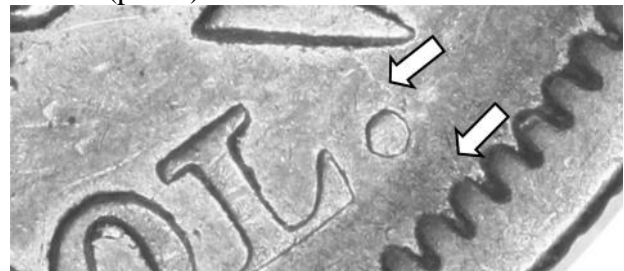
Reverse A



- Large O mintmark (photo)



- Multiple die lines within the lower shield: horizontal lines at the bottom and another diagonal line between shield lines D-3 and E-1 (photo)



- All examples seen: radial die crack from dentil at K-5 to lower arrowhead (photo)
- This reverse die is transitional with 1856-O (reverse J).

This is the first use of this obverse die and second and last use of this reverse die.

Date grid: M5.5, .013"	140 reeds	Typical diameter = 1.205"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1857-O
WB-2**



Obverse 2



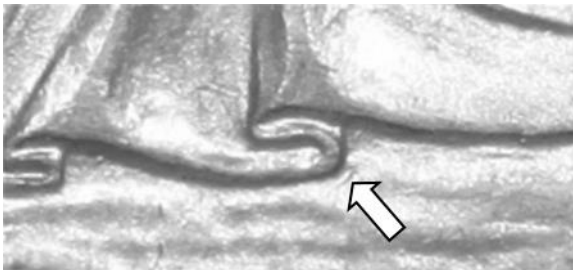
Reverse A (enhanced die crack in photo at right)

**1857-O
WB-3**

Obverse 2



- Date with 18 not connected (photo)
- The tine off the left end of serif of the 1 seen in the previous use of this die (WB-2) is not now visible.

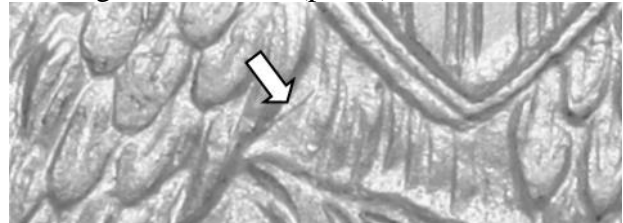


- Small die line in the rock support along the SE corner of the right skirt fold (photo); the die line in the rock support below Liberty's foot seen in the previous use of this die is not now visible.
- All examples seen: weakly struck stars 4-9

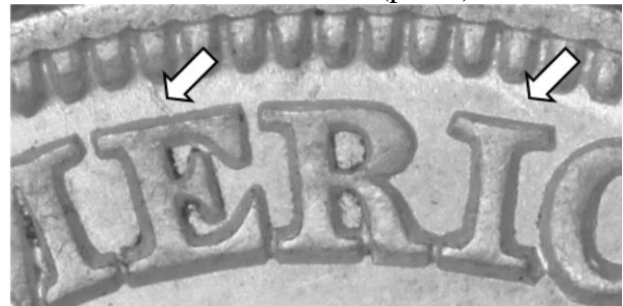
Reverse B



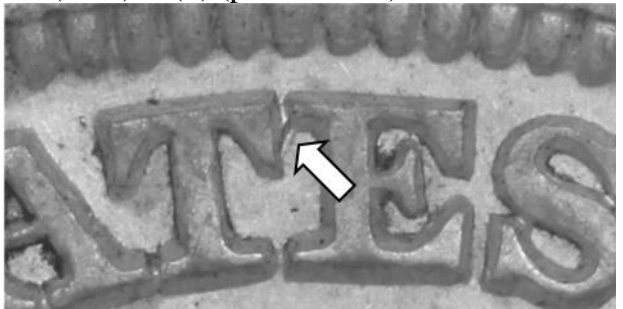
- Large O mintmark (photo)



- Diagonal (NE to SW) die line in the eagle's feathers below the shield (photo)



- Die lines from dentil to (AM)E(RICA) and from dentil to (AMER)I(CA) (photo). Another die line connecting serifs of (STA)TE(S) (photo below)



This is the second and last use of this obverse die and first use of this reverse die.

Date grid: M5, .015"	140 weak reeds	Typical diameter = 1.205"	Rarity - 3
Dravery die state: Full	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS62		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1857-O
WB-3**



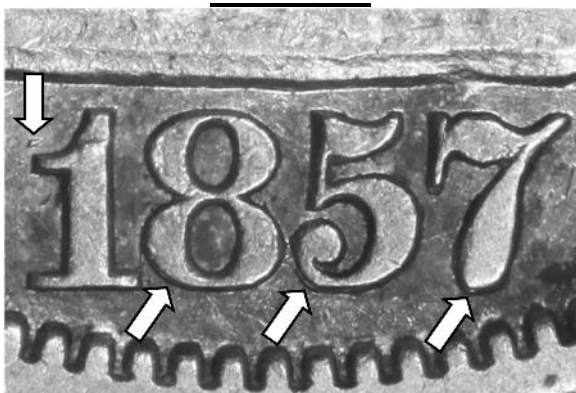
Obverse 2



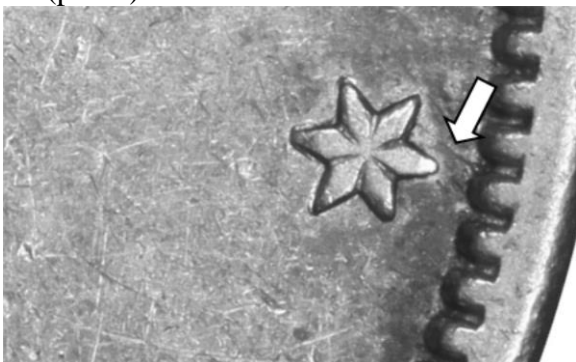
Reverse B

1857-O WB-4, Repunched Date

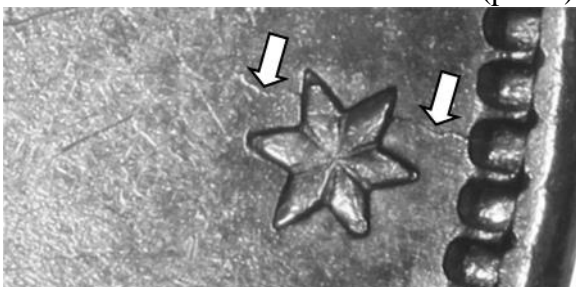
Obverse 3



- Date repunched north with 18 connected and a tiny tine to the upper left of the serif of the 1 (photo)



- EDS: die line from dentil to star 13 (photo)

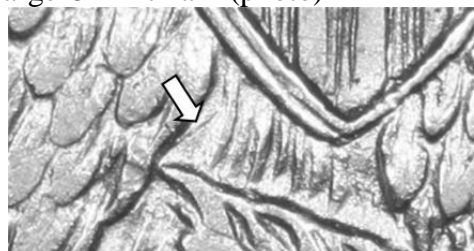


- LDS: die crack from dentil thru star 13 into field (photo)

Reverse B



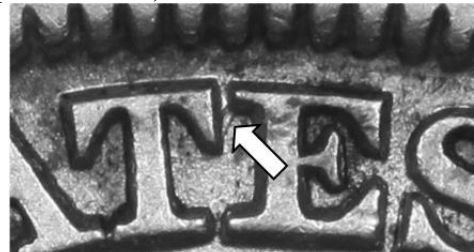
- Large O mintmark (photo)



- Diagonal (NE to SW) die line in the eagle's feathers below the shield (photo)



- Die lines from dentil to (AM)E(RICA) (photo). The die line from dentil to (AMER)I(CA) seen in the previous use of this die (WB-3) is not now visible. Another die line connecting serifs of (STA)TE(S) (photo below)



This is the only use of this obverse die and second use of this reverse die.

Date grid: M4.5, .013"	140 reeds	Typical diameter = 1.207"	Rarity - 3
Dravery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: XF45 LDS: MS64		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-103.		Version 1.325	

1857-O
WB-4, Repunched Date



Obverse 3 (enhanced die crack in photo at right)



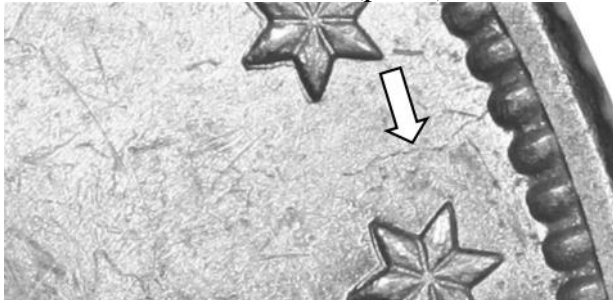
Reverse B

1857-O WB-5

Obverse 4



- Date with 18 connected (photo)

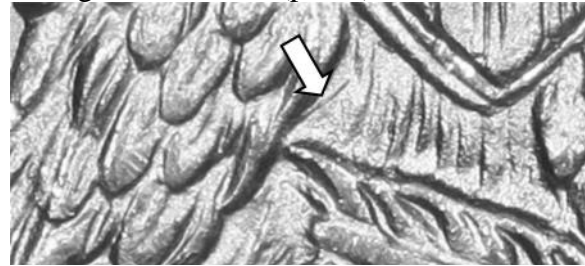


- All examples seen: weak die crack from dentil into field between stars 10-11 (photo)

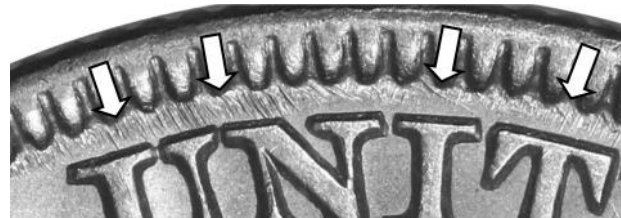
Reverse B



- Large O mintmark (photo)



- Diagonal (NE to SW) die line in the eagle's feathers below the shield (photo)
- The die lines from dentil to (AM)E(RICA), from dentil to (AMER)I(CA), and from between serifs of (STA)TE(S) seen in the previous use of this die (WB-3) are not now visible.



- Multiple die polish lines from dentils around circumference at K-7 to K-11 (photo)
- Very heavily clashed die prominently in lower right shield and in the field under the eagle's right wing

This is the only use of this obverse die and third and last use of this reverse die.

Date grid: M4.5, .012"	140 reeds	Typical diameter = 1.201"	Rarity - 4
Dravery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS63		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1857-O
WB-5



Obverse 4 (enhanced die crack in photo at right)



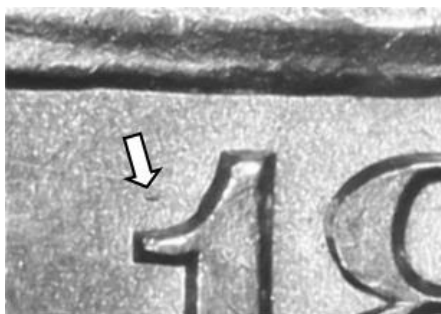
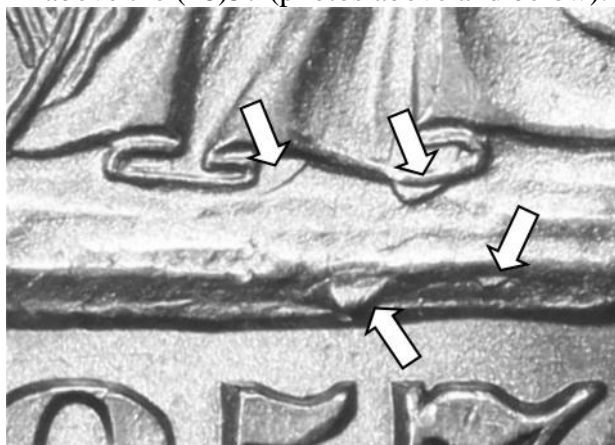
Reverse B

1857-O WB-6, Date in Rock

Obverse 5



- Date with 18 connected. The date was punched into the rock support and skirt at least four times (likely as many as six times) above the (18)57 (photos above and below).

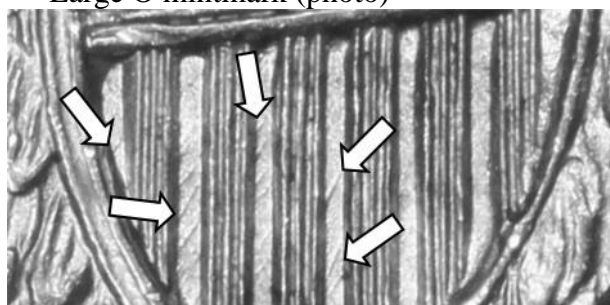


- Small tine to the upper left of the serif of the 1 (photo)

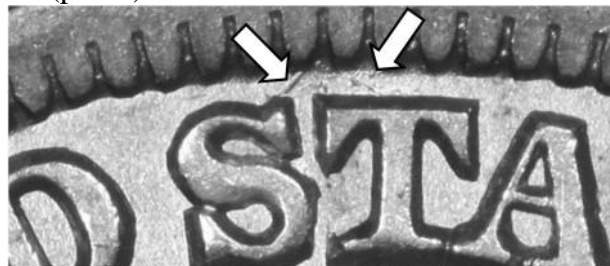
Reverse C



- Large O mintmark (photo)



- LDS: diagonal (NE to SW) die polish lines in the recessed area of the lower shield (photo)



- Die lines between ST(ATES) and dentils (photo)



- Vertical die line in the eagle's mouth (photo)

This is the only use of this obverse die and first use of this reverse die.

Date grid: M4, .018"	140 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Randy Wiley Collection	
Cross reference: WB-102.		Version 1.325	

1857-O
WB-6, Date in Rock



Obverse 5



Reverse C

1857-O WB-7

Obverse 6

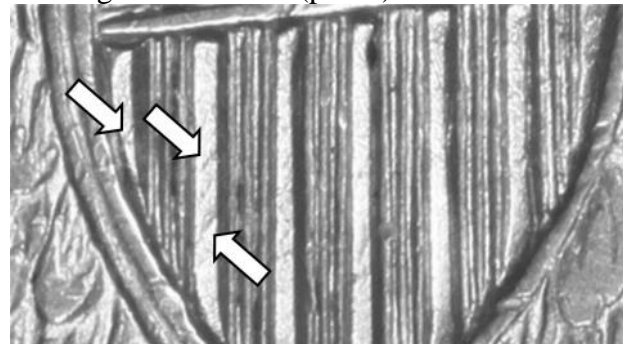


- Date furthest left of any 1857-O obverse; 18 not connected (photo) and 18 connected; see introductory text.
- LDS: very small rust lumps throughout Liberty
- LDS: clash in the drapery below Liberty's right elbow

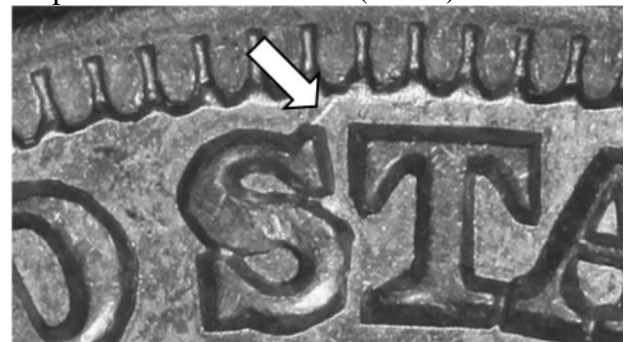
Reverse C



- Large O mintmark (photo)



- EDS to MDS only: diagonal (NE to SW) die polish lines in the recessed area of the lower shield (photo) now much weaker than on the previous use of this die (WB-6)



- EDS only: die line between S(TATES) and dentils (photo)
- Vertical die line in the eagle's mouth

This is the only use of this obverse die and second and last use of this reverse die.

Date grid: M3, .016"	140 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Full	Foot support: Full to weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: MS65 LDS: XF45		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1857-O
WB-7**



Obverse 6



Reverse C

1858-O

This date is one of the most common in the Liberty Seated half dollar series in terms of both mintage (third highest in the entire series) and availability. You can find this date at any coin show in almost any circulated condition. Its' commonness likely decreases collector interest because, other than adding a single coin to a collection, there appears to be little to draw interest. Reinforcing this is a lack of variation in date and mintmark sizes, or even an appearance of variation in the placement of the dates or mintmarks.

Conversely, there are plenty of interesting die varieties to draw even a casual collector. Many obverse dies have repunched or misplaced (errant) dates or at least significant diagnostics to easily identify the die marriage. Collecting all the die marriages could be a lifelong task but collecting the major die marriages will keep the dedicated collector interested for years.

A daunting forty-one die marriages are known for 1858-O half dollars as depicted in the tables below and on the following pages.

Mintage	Number of Dies	Number of Die Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
7,294,000	Requested	-	-	-	1 (140)
	Shipped	-	31	21	
	Known	41	24	24	

Note *: U.S .Archive's die shipment records are incomplete.
















“Fun Facts.” Both 1858-O half dollar related, here are two interesting personal bits of information.

	
<p>Randy Wiley is studying 1858-O half dollar die marriages at the March 2012 Half Dollar Summit at the Bugert home in Gettysburg, PA.</p>	<p>This is the coin that launched my (Bill Bugert's) interest in Liberty Seated half dollars, an 1858-O WB-10. My Maternal Grandmother gave me this coin in 1967; it is now a family heirloom.</p>

1858-O date grid quick reference table

Obverse die date grid	Die Marriage
L5.5, .012"	WB-7
L5.5, .014"	WB-8
L5.5, .016"	WB-9
M1, .006"	WB-39
M1, .008"	WB-40
M1, .010"	WB-31
M1, .010"	WB-41
M1, .018"	WB-11
M1.5, .008"	WB-6
M1.5, .010"	WB-1
M1.5, .010"	WB-15
M1.5, .010"	WB-2
M1.5, .011"	WB-3
M1.5, .012"	WB-30
M1.5, .014"	WB-19
M1.5, .014"	WB-21
M1.5, .014"	WB-25
M1.5, .016"	WB-26
M1.5, .016"	WB-27
M1.5, .017"	WB-24
M1.5, .018"	WB-20
M2, .005"	WB-35
M2, .008"	WB-29
M2, .015"	WB-22
M2, .016"	WB-14
M2, .016"	WB-23
M2, .016"	WB-28
M2.5, .006"	WB-17
M2.5, .008"	WB-10
M2.5, .009"	WB-34
M2.5, .009"	WB-38
M2.5, .010"	WB-18
M2.5, .011"	WB-12
M2.5, .011"	WB-16
M2.5, .012"	WB-4
M2.5, .013"	WB-13
M2.5, .014"	WB-5
M3, .006"	WB-36
M3, .006"	WB-37
M3, .012"	WB-32
M3, .013"	WB-33

1858-O Half Dollar Mintmark Positions

 <p>Reverse A, WB-1</p>	 <p>Reverse B, WB-2</p>	 <p>Reverse C, WB-3, 4</p>
 <p>Reverse D, WB-5, 6, 7</p>	 <p>Reverse E, WB-8</p>	 <p>Reverse F, WB-9,10,11,12</p>
 <p>Reverse G, WB-13,14,15</p>	 <p>Reverse H, WB-16, 17</p>	 <p>Reverse I, WB-18, 19</p>
 <p>Reverse J, WB-20</p>	 <p>Reverse K, WB-21, 22</p>	 <p>Reverse L, WB-23</p>
 <p>Reverse M, WB-24, 25</p>	 <p>Reverse N, WB-26</p>	 <p>Reverse O, WB-27</p>

1858-O Half Dollar Mintmark Positions (Cont'd)



Reverse P, WB-28



Reverse Q, WB-29



Reverse R, WB-30,31,32



Reverse S, WB-33



Reverse T, WB-34, 35



Reverse U, WB-36



Reverse V, WB-37

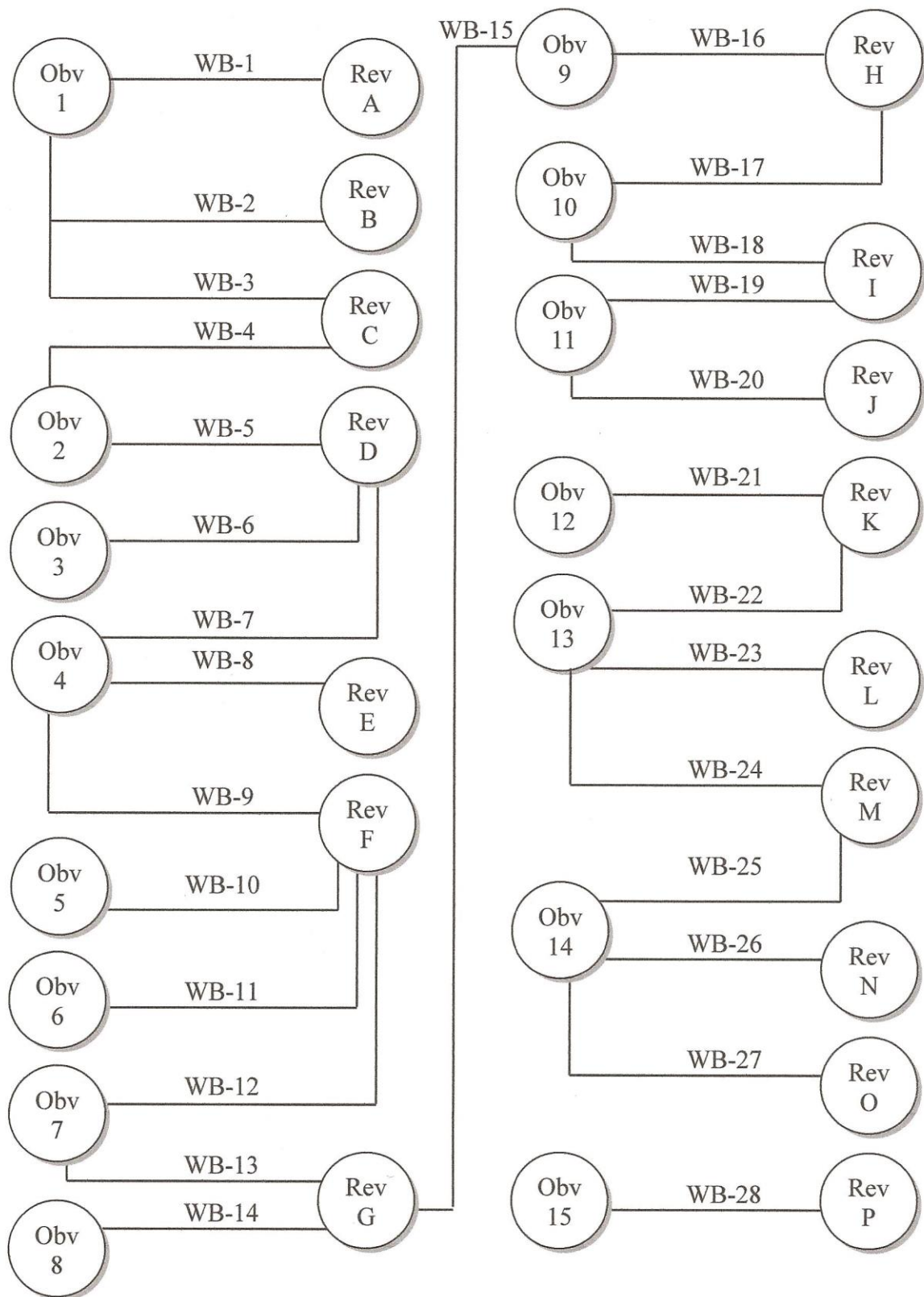


Reverse W, WB-38, 39

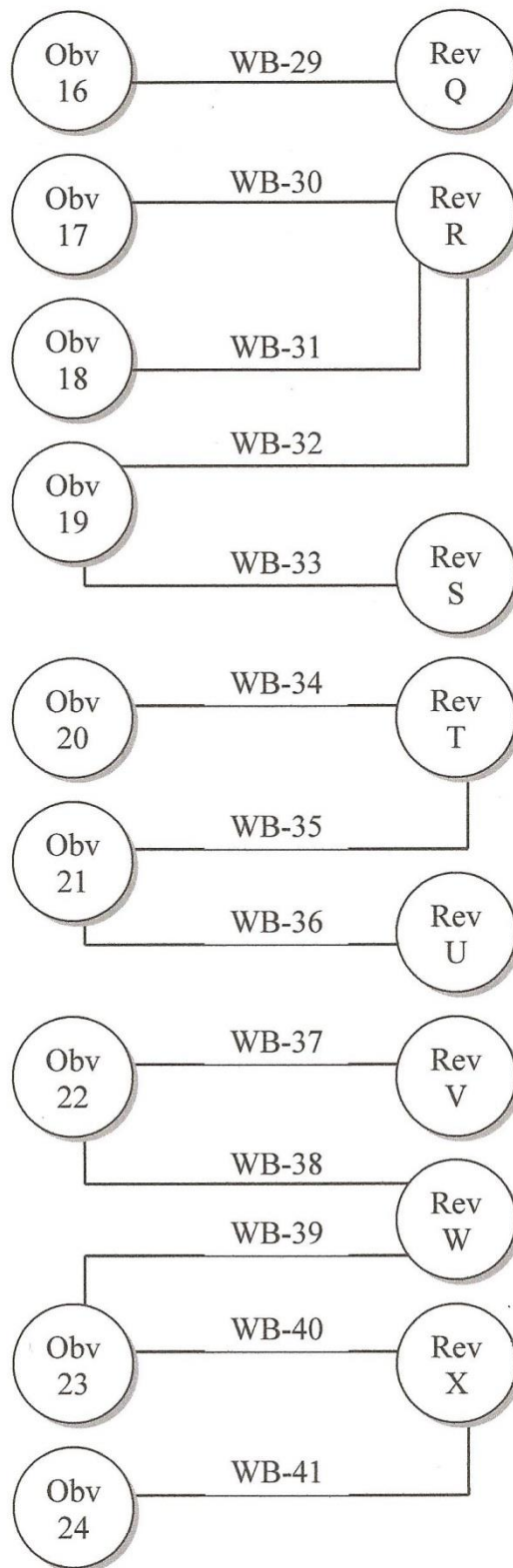


Reverse X, WB-40, 41

1858-O Half Dollar Die Linkage Diagram



1858-O Half Dollar Die Linkage Diagram (Cont'd)



1858-O Obverse and Reverse die identification keys		Die lines from the eagle's upper right wing	Die lines thru the olive branch	Gouge from the dentils above the right serif of the (AMER)C(A)	Small lump in the crotch under the eagle's left wing	Die lines in the field under the eagle's left wing	Die lines directly under the crotch of the eagle's left wing	Die lines under the eagle's right wing	Small lump on the lower edge of the middle serif of the (AM)E(R)ICA
		A	B	C	D	E	F	G	H
Errant 1 in dentils	1	WB-1	WB-2	WB-3					
Errant 8 in gown	2			WB-4	WB-5				
Quadrupled 2 nd 8	3				WB-6				
Errant 8 from rock	4				WB-7	WB-8	WB-9		
Clash in the drapery	5						WB-10		
Clash in the drapery	6						WB-11		
Repunched 1, tripled 2 nd 8	7						WB-12	WB-13	
Rust lumps on Liberty's thighs	8							WB-14	
Die line from Liberty's chin	9							WB-15	WB-16
Errant digits from rock support	10								WB-17

1858-O Obverse and Reverse die identification keys (Continued)		Die lines in and around the olive leaves and branch	Small lump on the lower edge of olive leaf #1	Small lumps between and on the olive leaves	Small die line in the recessed area by the upper arrow feathers	Small tine on the upper edge of the (STAT)E(S)	Die line along the upper edge of the olive branch	Rust lumps in the upper horizontal shield lines	Die lines thru (STA)TES (photo above) and thru (UNIT)ED
		I	J	K	L	M	N	O	P
Errant digits from rock support	10	WB-18							
Errant 8s in rock support	11	WB-19	WB-20						
18 Repunched North, 2 nd 8 Repunched South	12			WB-21					
Repunched 2 nd 8	13			WB-22	WB-23	WB-24			
Weak die crack thru stars 10-13	14					WB-25	WB-26	WB-27	
Errant 18 from the rock support	15								WB-28

1858-O Obverse and Reverse die identification keys (Continued)		Diagonal die lines in the shield	No discernible die diagnostics	Die lines in the clutch of the eagle's left claw	Small lump inside the eagle's mouth	Vertical shield line E1 extends all thru the horizontal lines	Diagonal die line from (STA)T(ES)	Diagonal die lines directly under the eagle's left wing	Large lump in the upper horizontal shield lines
		Q	R	S	T	U	V	W	X
Diagonal die line in Liberty's skirt	16	WB-29							
Die rust along the pole by Liberty's right forearm	17		WB-30						
Clash lines across Liberty's lap	18		WB-31						
1 is repunched north	19		WB-32	WB-33					
Lumps in the rock along Liberty's left fingers	20				WB-34				
Tine from the dentil below Liberty's foot	21				WB-35	WB-36			
No discernible die diagnostics	22						WB-37	WB-38	
Base of an errant 1 in the lower shield	23							WB-39	WB-40
Lumps in Liberty's skirt to the right of the scroll end	24								WB-41

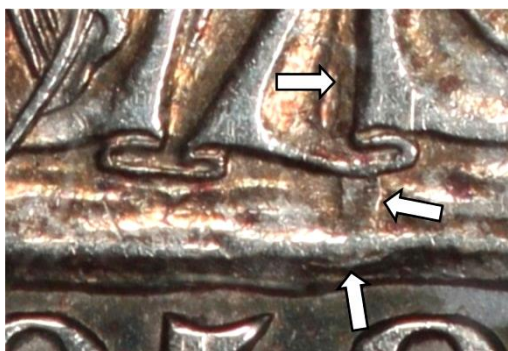
1858-O

WB-1, Errant 1 in Dentils

Obverse 1



- Date with the top of the serif of the 1 in the dentils below the right edge of the 1 (photos)



- Remnants of three other punches of the date (most likely parts of 8s) in the rock support and in Liberty's skirt (photo)
- Diagonal (NW to SE) die line in the field below the left edge of the rock support
- All die states: multiple horizontal die lines along the dentils from K-4 to K-6.

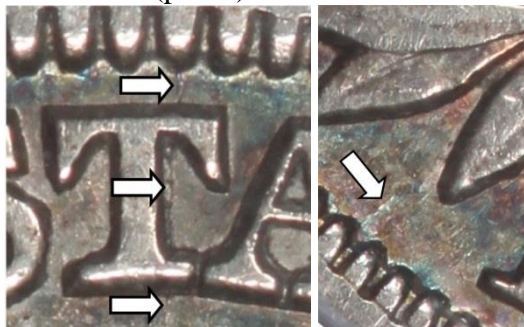
Reverse A



- Mintmark (photo)



- Die lines from the eagle's upper right wing near shield (photo)



- All examples seen: radial die crack thru (S)T(ATES) (photo left) and from dentil to lowest olive leaf (photo above right)



- Many horizontal die lines in the lower shield (photo)

This is the first use of this obverse die and only use of this reverse die.

Date grid: M1.5, .010"	140 reeds	Typical diameter = 1.199"	Rarity - 2
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS AU53		Coin from the Bill Bugert Collection	
Cross reference: WB-106.		Version 1.325	

1858-O
WB-1, Errant 1 in Dentils



Obverse 1



Reverse A (enhanced die cracks in photo at right)

1858-O

WB-2, Errant 1 in Dentils

Obverse 1



- Date with the top of the serif of the 1 in the dentils below the right edge of the 1 (photos)



- Remnants of three other punches of the date (most likely parts of 8s) in the rock support and in Liberty's skirt (photo)



- Diagonal (NW to SE) die line in the field below the left edge of the rock support (photo)
- All die states: multiple horizontal die lines along the dentils from K-4 to K-6; these lines are much weaker in LDS.

Reverse B



- Mintmark (photo)



- Many die lines thru the olive branch (photo), along the eagle's left leg, diagonally thru (UNI)TED, diagonally thru AME(RICA), and along the outside of the eagle left wing



- LDS only: radial die crack with small cud from the dentil at K-4 thru the upper arrowhead to the eagle's right wing (photo); other LDS die cracks radially thru U(NITED) and (STATE)S (photos below)



This is the second use of this obverse die and only use of this reverse die.

Date grid: M1.5, .010"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Randy Wiley Collection	
Cross reference: WB-106.		Version 1.325	

1858-O
WB-2, Errant 1 in Dentils



Obverse 1



Reverse B (enhanced die cracks in photo at right)

1858-O

WB-3, Errant 1 in Dentils

Obverse 1



- Date with the top of the serif of the 1 in the dentils below the right edge of the 1 (photos). In LDS examples of this die marriage, the 1 in the dentils is not visible.



- Remnants of three other punches of the date (most likely parts of 8s) in the rock support and in Liberty's skirt (photo)
- LDS only: radial die crack thru the upright of the 1(858) thru the rock support and into the shield.
- Diagonal (NW to SE) die line in the field below the left edge of the rock support now very weak; not visible on LDS examples.
- LDS only: multiple horizontal die lines along the dentils from K-4 to K-6.

Reverse C



- Mintmark (photo)



- EDS only: diagonal die line along the top of (UN)IT(ED) (photo)



- LDS only: die gouge from the dentils above the right serif of the (AMERI)C(A) (photo)

This is the third use of this obverse die and only use of this reverse die.

Date grid: M1.5, .011"	140 reeds	Typical diameter = 1.197"	Rarity - 2
Drapery die state: Full	Foot support: Full to weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: AU55 LDS: AU55		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-106.		Version 1.325	

1858-O
WB-3, Errant 1 in Dentils



Obverse 1



Reverse C

1858-O

WB-4, Errant 8 in Gown Above 2nd 8

Obverse 2



- Date (photo)



- Tiny tine or lump on the upper left of the serif (photo)



- Errant digit (?) in Liberty's skirt (photo)

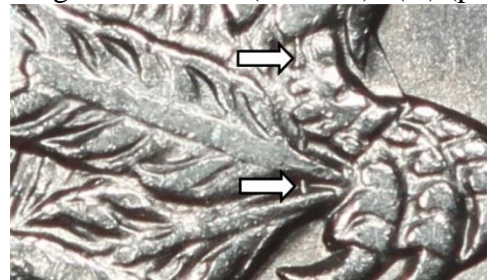
Reverse C



- Mintmark (photo)



- EDS only: die gouge from the dentils above the right serif of the (AMERIC(A) (photo)



- LDS only: vertical die line thru the eagle's right leg and arrow shafts (photo)
- I am uncertain when the die state change for the die gouge to die line (above) occurred; i.e., is there a MDS that has both?
- LDS: heavy clash in the shield's lower right (see image next page)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2.5, .012"	140 reeds	Typical diameter = 1.977"	Rarity - 3
Drapery die state: Full to partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: XF45 LDS: AU50		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-not listed.		Version 1.325	

1858-O

WB-4, Errant 8 in Gown Above 2nd 8



Obverse 2



Reverse C

1858-O

WB-5, Errant 8 in Gown Above 2nd 8

Obverse 2



- Date (photo)



- Tiny tine or lump on the upper left of the serif (photo) now much weaker than on the previous use of this die (WB-4)

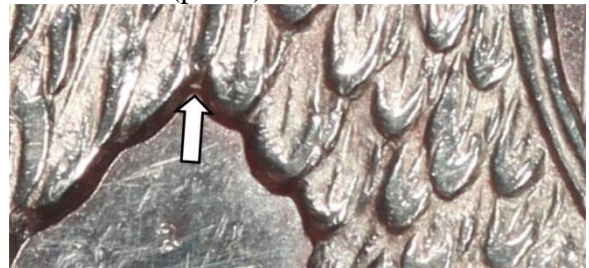


- Errant digit (?) in Liberty's skirt (photo)

Reverse D



- Mintmark (photo)



- Small lump in the crotch formed under the eagle's left wing (photo)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2.5, .014"	140 reeds	Typical diameter = 1.197"	Rarity - 4
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Dick Osburn Collection	
Cross reference: WB-not listed.		Version 1.325	

1858-O

WB-5, Errant 8 in Gown Above 2nd 8



Obverse 2



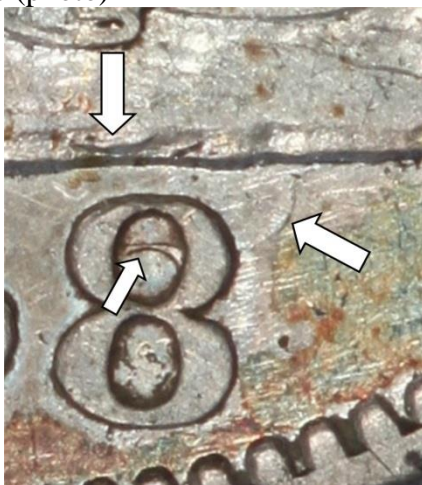
Reverse D

1858-O WB-6, Quadrupled 2nd 8

Obverse 3



- Date (photo)



- The second 8 was punched no less than four times into this die; in the rock support, in the field, and in in the upper loop of the 8 (photo). Note EDS horizontal die lines in the field to the right of and below the date.



- Die line in the rock support from Liberty's right heel (photo)
- Heavily clashed die (see image on next page)

Reverse D



- Mintmark (photo)



- Small lump in the crotch formed under the eagle's left wing (photo)
- LDS only: weak die crack connects the tops of letters UNIT(ED)
- All die states: clash across all the shield lines of the lower shield and under the eagle's right wing

This is the only use of this obverse die and second use of this reverse die.

Date grid: M1.5, .008"	140 reeds	Typical diameter = 1.197"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-107.		Version 1.325	

1858-O
WB-6, Quadrupled 2nd 8



Obverse 3



Reverse D

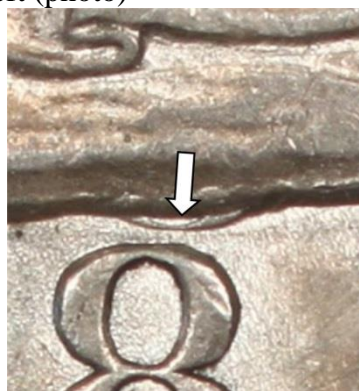
1858-O

WB-7, Errant 8 from Rock

Obverse 4



- Date left (photo)



- The bottom loop of an 8 protrudes from the rock support above the second 8 in the date (photo). This repunched 8 fades with die state.
- MDS-LDS: clash in the drapery below Liberty's elbow

Reverse D



- Mintmark (photo)



- Small lump in the crotch formed under the eagle's left wing (photo)



- LDS: radial die crack from dentil thru (AMER)I(CA) to the eagle's left wing (photo). Another die crack along the top of letters UNITED
- All die states: clash across all the shield lines of the lower shield and under the eagle's right wing

This is the first use of this obverse die and third use of this reverse die.

Date grid: L5.5, .012"	140 reeds	Typical diameter = 1.203"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: XF45 LDS: XF45		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-108.		Version 1.325	

1858-O
WB-7, Errant 8 from Rock



Obverse 4



Reverse D (enhanced die cracks in photo at right)

1858-O WB-8, Errant 8 from Rock

Obverse 4



- Date left (photo). The bottom loop of an 8 that protruded from the rock support in the previous use of this die (WB-7) is not now visible.



- Heavy clash in the drapery below Liberty's elbow and on her knee (photo)

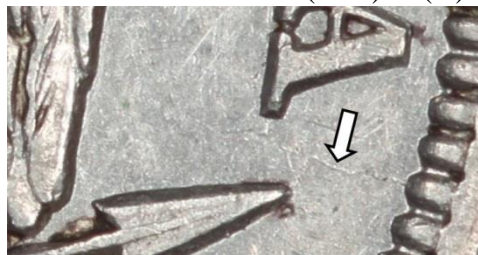
Reverse E



- Mintmark (photo)



- Many diagonal (NW to SE) die lines in the field under the eagle's left wing (photo). These lines are different from those of WB-9. Other die lines above (UNITE(D)).



- LDS only: radial die crack from the dentil at K-4 between the (AMERIC)A and the upper arrowhead towards the eagle's right wing (photo)
- Small tines along the edge of the eagle's upper right wing near the shield
- Weak bottoms of vertical shield lines C1-3

This is the second use of this obverse die and only use of this reverse die.

Date grid: L5.5, .014"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Randy Wiley Collection	
Cross reference: WB-108.		Version 1.325	

1858-O
WB-8, Errant 8 from Rock



Obverse 4



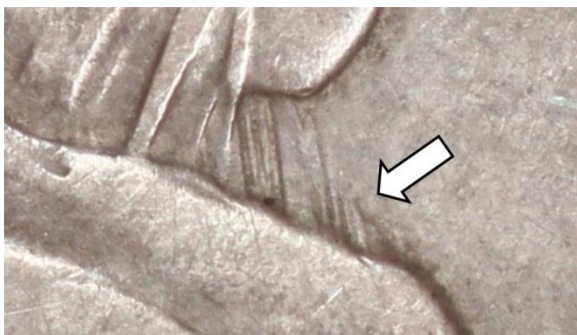
Reverse E (enhanced die cracks in photo at right)

1858-O WB-9, Errant 8 from Rock

Obverse 4



- Date left (photo). The bottom loop of an 8 that protruded from the rock support in the first use of this die (WB-7) is not visible here. Note the weak dentils below the date.

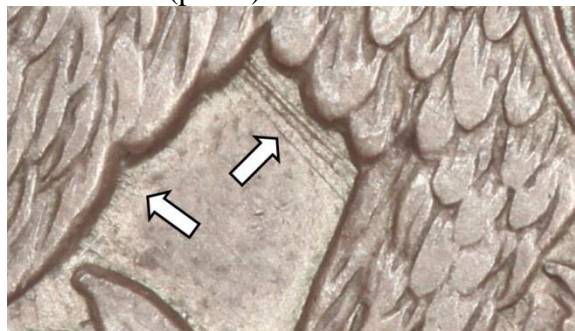


- Heavy clash in the drapery below Liberty's elbow and on her knee (photo)

Reverse F



- Mintmark (photo)



- Diagonal (NW to SE) die lines directly under the crotch of the eagle's left wing (photo). These lines are different from those of WB-8. Other smaller die lines along the eagle's inside left wing

This is the third use of this obverse die and first use of this reverse die.

Date grid: L5.5, .016"	140 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Randy Wiley Collection	
Cross reference: WB-108.		Version 1.325	

1858-O
WB-9, Errant 8 from Rock



Obverse 4



Reverse F

**1858-O
WB-10**

Obverse 5



- Date slants down to the right (photo)



- Small lump in Liberty's skirt to the upper right of the right skirt fold (photo)

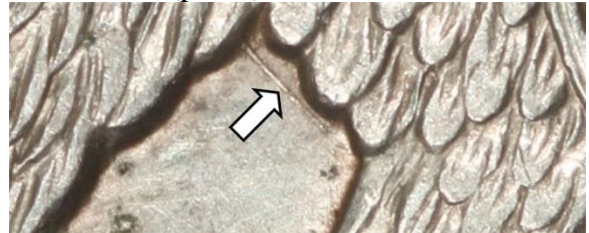


- Heavy clash in the drapery below Liberty's elbow and across her lap (photo)
- High-grade examples only: rim cuds from K-1 to K-3.

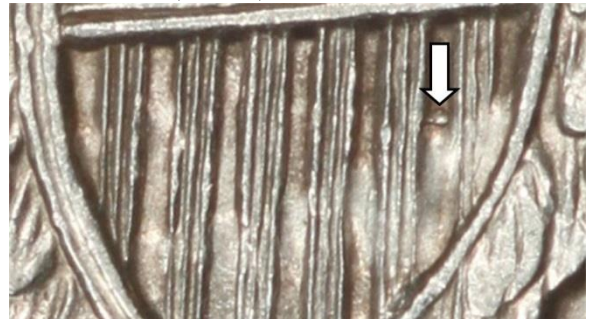
Reverse F



- Mintmark (photo)



- Diagonal (NW to SE) die lines directly under the crotch of the eagle's left wing (photo). These lines are different from those of WB-8 and fewer than on the previous use of this die (WB-9).



- Small internal cud or die chip between shield lines E3 and F1 along the upper edge of the clash in the shield's lower right (photo)
- Weak die crack between (STATE)S O(F) (see die crack enhancement on next page)

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2.5, .008"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-10



Obverse 5



Reverse F (enhanced die cracks in photo at right)

1858-O WB-11

Obverse 6



- Date (photo)

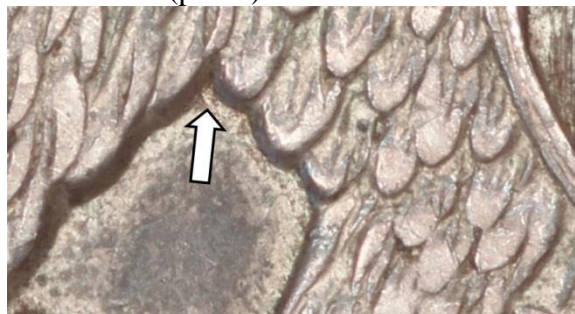


- Heavy clash in the drapery below Liberty's elbow (photo)

Reverse F



- Mintmark (photo)



- Small tine is all that remains of the diagonal die line seen in the previous uses of this die (WB-9 and WB-10) (photo)



- The small internal cud or die chip between shield lines E3 and F1 along the upper edge of the clash in the shield's lower right seen in the previous use of this die (WB-10) is now consumed by the clash (photo)
- Die crack between (STATE)S O(F) and another along the base of the denomination

This is the only use of this obverse die and third use of this reverse die.

Date grid: M1, .018"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1858-O
WB-11**



Obverse 6



Reverse F (enhanced die cracks in photo at right)

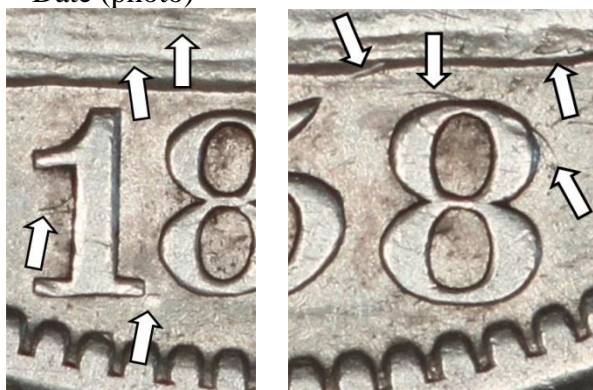
1858-O

WB-12, Repunched 1 and Tripled 2nd 8

Obverse 7



- Date (photo)



- The 1 is repunched north half way up the digit of the 1; other multiple repunchings of the date in the rock support, field around the date, and from the dentils (photo)



- LDS: repunched digits show only in the rock support (photo)

Reverse F



- Mintmark (photo)



- EDS: small tine is all that remains of the diagonal die line seen in the previous uses of this die (WB-9 and WB-10) (photo)



- Larger internal cud or die chip (than WB-10) between shield lines E3 and F1 along the upper edge of the clash in the shield's lower right (photo)



- Vertical die lines from the olive stem to the eagle's right claw (photo)

This is the first use of this obverse die and fourth use of this reverse die.

Date grid: M2.5, .011"	140 reeds	Typical diameter = 1.198"	Rarity - 3
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Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full
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Grade of coin depicted: EDS: XF45 LDS: AU58	EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection
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Cross reference: WB-103.	Version 1.325
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1858-O
WB-12, Repunched 1 and Tripled 2nd 8



Obverse 7



Reverse F (enhanced die cracks in photo at right)

1858-O

WB-13, Repunched 1 and Tripled 2nd 8

Obverse 7



- Date (photo). The repunched digits seen in the EDS use of this die on WB-12 show only faintly in the rock support (photo)



- LDS: tiny die chip in the drapery below Liberty's right elbow (photo)
- LDS: clash in the drapery below Liberty's right elbow and along Liberty's right forearm
- All examples seen: weak diagonal die crack from the dentil to the left of the base of the 1 thru the rock support to the rock

Reverse G



- Mintmark (photo)



- EDS-MDS: crossing vertical and diagonal (SW to NE) die lines under the eagle's right wing (photo)
- LDS: die lines polished away



- Diagonal (SW to NE) die lines in the lower recessed area of the shield (photo)
- Unfinished beneath some letters of the legend
- LDS: clash in shield's lower right

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2.5, .013"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: MS63 LDS w/drapery cud: AU58		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-103.		Version 1.325	

1858-O

WB-13, Repunched 1 and Tripled 2nd 8



Obverse 7 (enhanced die cracks in photo at right)



Reverse G

1858-O WB-14

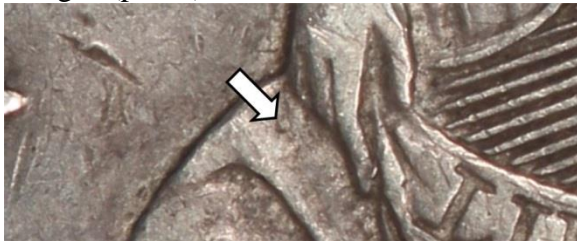
Obverse 8



- Date (photo)



- Small clump of rust lumps between Liberty's thighs (photo)

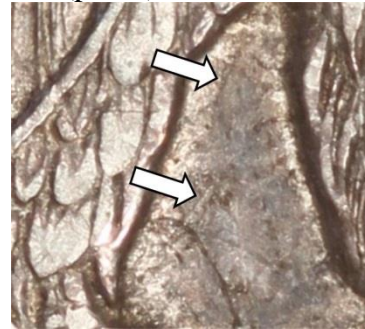


- Small lump on the rock near Liberty's left hand (photo)
- Note: these die lumps fade with die state.

Reverse G



- Mintmark (photo)



- Die lines under the eagle's right wing much weaker than on the previous use of this die (WB-13) (photo)



- Radial die crack at K-6 thru the lower right serif of (HA)L(F) to the feather tip above the mintmark (photo)
- The diagonal lines in the shield seen in the previous use of this die (WB-13) are now only faintly visible.

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .016"	140 reeds	Typical diameter = 1.198"	Rarity - 3
Draperies die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-14



Obverse 8



Reverse G (enhanced die cracks in photo at right)

**1858-O
WB-15**

Obverse 9



- Date (photo)



- Die line from Liberty's chin to her left shoulder (photo)

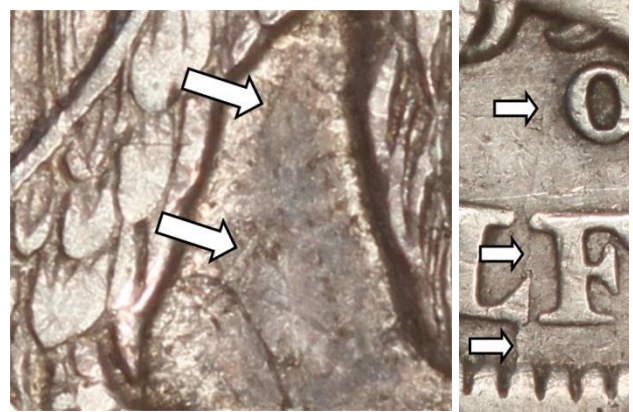


- Very weak horizontal die crack from the lower left base of the 1 to the dentil at left (photo)

Reverse G



- Mintmark (photo)



- Die lines under the eagle's right wing much weaker than on the previous use of this die (WB-13) (photo above left)
- The diagonal lines in the shield seen in the previous use of this die (WB-13) are now only faintly visible.
- Radial die crack at K-6 thru the lower right serif of (HA)L(F) to the feather tip above the mintmark (photo above right)
- Clash in shield lower right

This is the first use of this obverse die and third use of this reverse die.

Date grid: M1.5, .010"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Weak	
Grade of coin depicted: XF40		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-15



Obverse 9 (enhanced die cracks in photo at right)



Reverse G (enhanced die cracks in photo at right)

**1858-O
WB-16**

Obverse 9



- Date (photo)



- Die line from Liberty's chin to her left shoulder (photo) now much weaker than on the previous use of this die (WB-15)

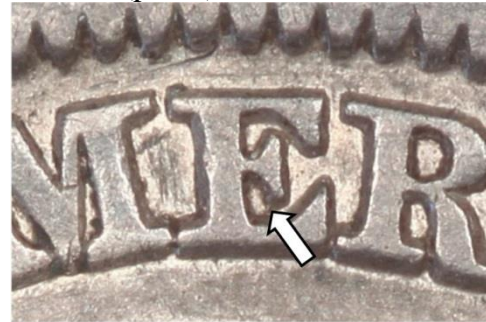


- Horizontal die crack from the lower left base of the 1 to the dentil at left (photo)

Reverse H



- Mintmark (photo)



- Small lump on the lower edge of the middle serif of the (AM)E(RICA) (photo)
- EDS: unclashed
- LDS: clash in shield's lower right

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2.5, .011"	140 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: PCGS XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1858-O
WB-16**



Obverse 9 (enhanced die cracks in photo at right)



Reverse H

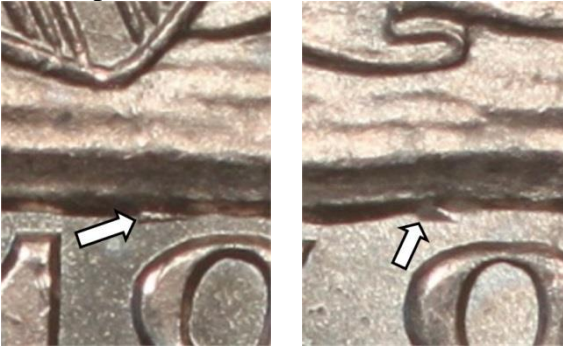
1858-O

WB-17, Errant Digits from Rock

Obverse 10



- Date (photo)



- EDS: remnants of two digits protrude from the rock support above the left side of the first 8 (photo above left) and above the left side of the second 8 (photo above right)
- LDS: errant digits from rock support above the date not visible

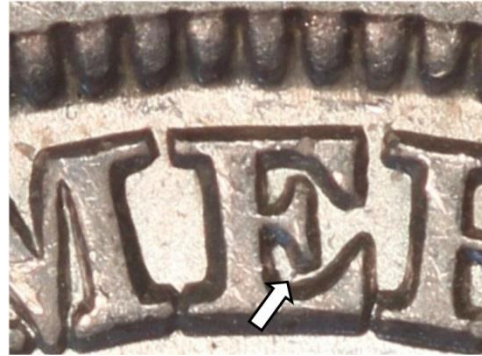


- Tiny line along the lower edge of the scroll below (LI)BE(RTY) (photo)

Reverse H



- Mintmark (photo)



- Small lump on the lower edge of the middle serif of the (AM)E(RICA) (photo)
- All die states: large clash in shield's lower right
- High grade coins only: rim cud at K-4
- LDS: weak die crack along the bottom of letters UNI(TED) and (D)OL.

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2.5, .006"	140 reeds	Typical diameter = 1.202"	EDS w/digits Rarity - 5 LDS w/o digits Rarity - 3
Drapery die state: Full	Foot support: Full to weak in LDS	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS63		Coin from the Randy Wiley Collection	
Cross reference: WB-109.		Version 1.325	

1858-O

WB-17, Errant Digits from Rock



Obverse 10



Reverse H (enhanced die cracks in photo at right)

1858-O WB-18, Errant Digits from Rock

Obverse 10



- Date (photo)
- The errant digits from rock support above the date seen in the previous use of this die (WB-17) are not visible here.

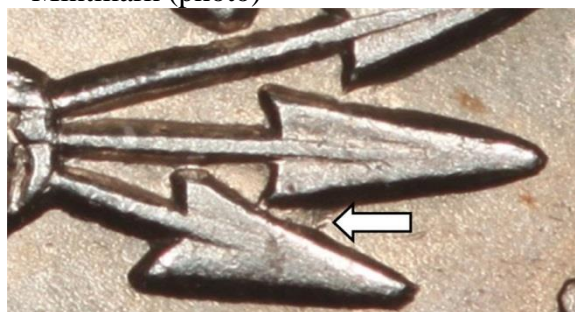


- LDS: diagonal die crack thru the lower folds of Liberty's skirt (photo). Another very faint die crack from the rock support thru the ribbon

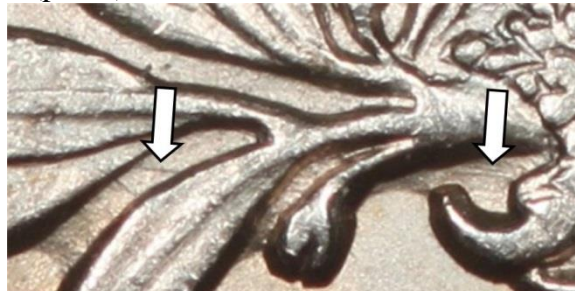
Reverse I



- Mintmark (photo)



- Die line between the two arrowheads (photo)



- Multiple die lines in and around the olive leaves and branch (photo)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2.5, .010"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Randy Wiley Collection	
Cross reference: WB-109.		Version 1.325	

1858-O

WB-18, Errant Digits from Rock



Obverse 10 (enhanced die cracks in photo at right)



Reverse I

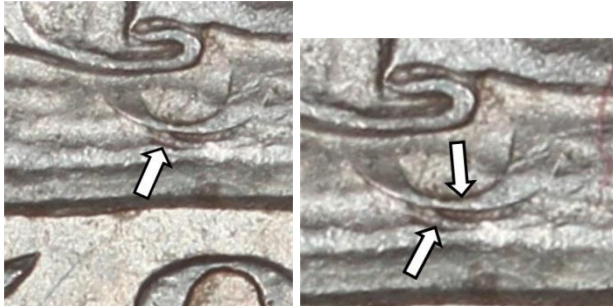
1858-O

WB-19, Errant 8s in Rock

Obverse 11



- Date (photo)



- The lower loops of errant 8s in the rock support above the (185)8 in the date (photos above). A close up of this errant loop shows it is actually two errant 8s, one above the other (photo above right).

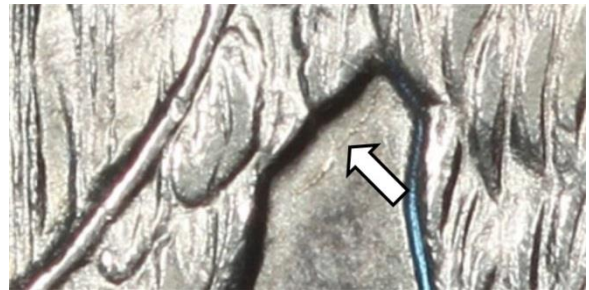


- EDS: miscellaneous unknown remnants in the dentils below the date (photo)
- LDS: clash lines across Liberty's lap and in the drapery below Liberty's right elbow

Reverse I



- Mintmark (photo)
- The reverse die lines seen on the previous use of this die (WB-18) are now either very faint or not visible.



- All examples seen: die crack along the inside of the eagle's left wing (photo)
- All examples seen: clash in shield's lower right



- LDS: die crack from dentil below H(ALF) thru the olive leaves (photo)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M1.5, .014"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: AU50 LDS: AU50		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-105.		Version 1.325	

1858-O
WB-19, Errant 8s in Rock



Obverse 11



Reverse I (enhanced die cracks in photo at right)

1858-O WB-20, Errant 8s in Rock

Obverse 11



- Date (photo). Note weak dentils.



- The lower loops of two errant 8s in the rock support above the (185)8 in the date (photo) now much weaker than the first use of this die (WB-19).



- LDS: date extremely weak (photo). This coin grades VG8 but lacks date detail.
- Clash lines across Liberty's lap and in the drapery below Liberty's right elbow

Reverse J



- Mintmark (photo)



- Small lump on the lower edge of olive leaf #1 (photo)
- Clash in shield's lower right

This is the second use of this obverse die and only use of this reverse die.

Date grid: M1.5, .018"	140 reeds	Typical diameter = 1.202"	Rarity - 4
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: EDS: AU58 LDS: VG8		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-105.		Version 1.325	

1858-O
WB-20, Errant 8s in Rock



Obverse 11



Reverse J

1858-O
WB-21, 18 Repunched North, 2nd 8 Repunched South

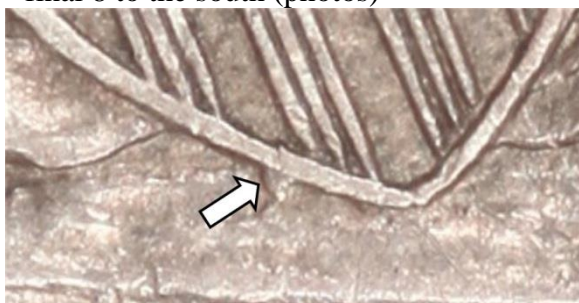
Obverse 12



- Date (photo)



- Repunchings on the date: 18 to the north and final 8 to the south (photos)

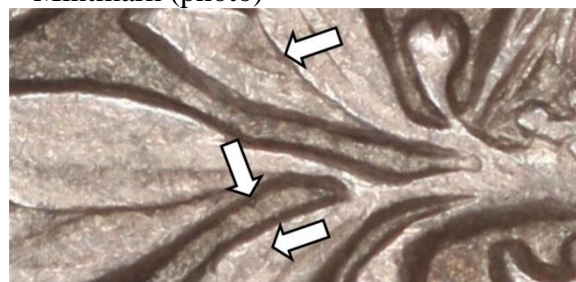


- Small lump in the rock support along the lower left edge of the shield (photo)
- EDS only: diagonal (SW to NE) die lines in the drapery

Reverse K



- Mintmark (photo)



- Small lumps between and on the olive leaves (photo)
- Clash in shield's lower right

This is the only use of this obverse die and first use of this reverse die.

Date grid: M1.5, .014"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Full to Partial	Foot support: Full	Dentils: Obverse - Full to weak; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Randy Wiley Collection	
Cross reference: WB-not listed.		Version 1.325	

1858-O

WB-21, 18 Repunched North, 2nd 8 Repunched South



Obverse 12



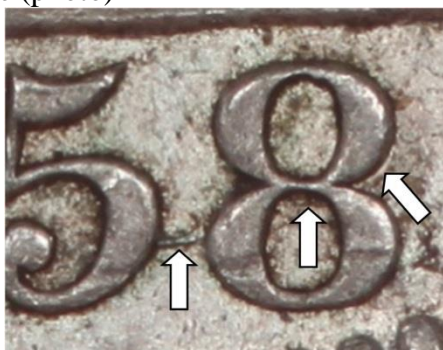
Reverse K

1858-O WB-22, Repunched 2nd 8

Obverse 13



- Date (photo)



- EDS-MDS only: bottom loop of a digit (8?) between (18)58 (photos above). VEDS (photo above) also has minor repunching on the upper loop of the second 8.

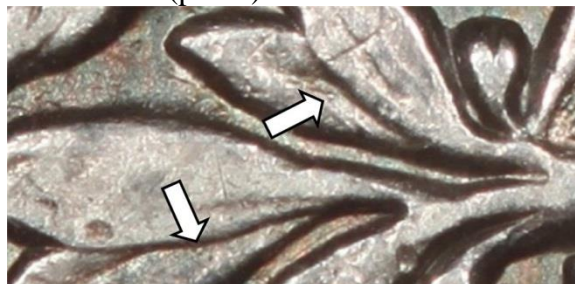


- Huge arching lump in Liberty's skirt off the end the shield's scroll (photo above left)
- LDS only: lump in the rock support along the lower left edge of the shield (photo above right)
- Heavy clash lines across Liberty's knees and in the drapery below her right elbow

Reverse K



- Mintmark (photo)



- Small lumps between and on the olive leaves (photo)
- Clash in shield's lower right
- All examples seen: weak die cracks along the top of letters UNITED and between DO(L)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .015"	140 reeds	Typical diameter = 1.201"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Weak	
Grade of coin depicted: EDS: XF45, AU55 LDS: AU55		EDS coins from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-102.		Version 1.325	

1858-O
WB-22, Repunched 2nd 8



Obverse 13



Reverse K (enhanced die cracks in photo at right)

1858-O WB-23, Repunched 2nd 8

Obverse 13



- Date (photo); date repunching not visible on this die marriage (see WB-22)



- Huge arching lump in Liberty's skirt off the end the shield's scroll (photo)
- The lump in the rock support along the lower left edge of the shield seen in the LDS of the previous use of this die (WB-22) is not now visible.

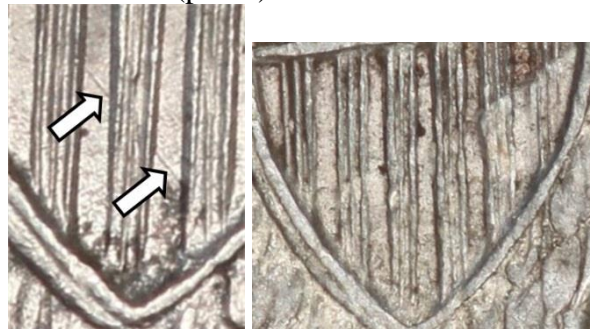


- Heavy clash lines across Liberty's knees and in the drapery below her right elbow (photo)

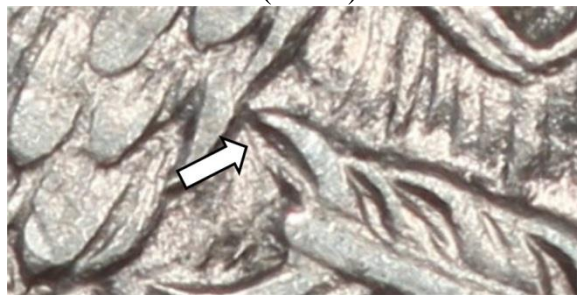
Reverse L



- Mintmark (photo)



- EDS: diagonal die line in the lower recessed area of the shield (photo above left)
- LDS: clash in shield's lower right (photo above right)
- MDS: no die line (above) or clash in shield



- All die states: small die line in the recessed area by the upper arrow feathers (photo)

This is the second use of this obverse die and only use of this reverse die.

Date grid: M2, .016"	140 reeds	Typical diameter = 1.197"	Rarity - 3
Drapery die state: None	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Weak	
Grade of coin depicted: EDS: XF40 LDS: AU53		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-102.		Version 1.325	

1858-O
WB-23, Repunched 2nd 8



Obverse 13



Reverse L

1858-O WB-24, Repunched 2nd 8

Obverse 13



- Date (photo). All remnants of the repunched 8 seen on previous use of this die (WB-22) are now polished away.



- Huge arching lump in Liberty's skirt off the end the shield's scroll (photo)



- Heavy clash lines across Liberty's knees and in the drapery below her right elbow (photo)

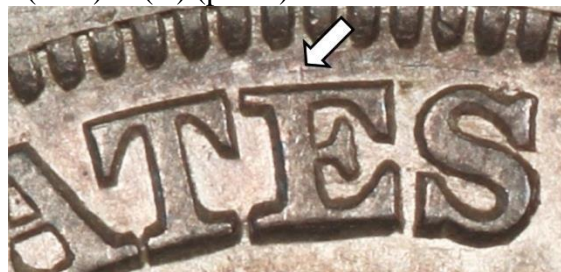
Reverse M



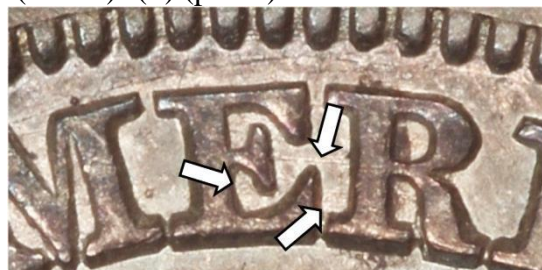
- Mintmark (photo)



- Scattered lines (rough area) above (UNI)TE(D) (photo)



- Small tine on the upper edge of the (STAT)E(S) (photo)



- Horizontal lines between (AM(ER)ICA) (photo)

This is the third use of this obverse die and first use of this reverse die.

Date grid: M1.5, .017"	140 reeds	Typical diameter = 1.202"	Rarity - 4
Drapery die state: None	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Dick Osburn Collection	
Cross reference: WB-102.		Version 1.325	

1858-O
WB-24, Repunched 2nd 8



Obverse 13



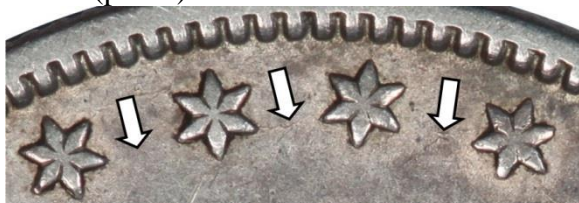
Reverse M

1858-O WB-25

Obverse 14



- Date (photo)



- All examples seen: weak die crack thru stars 10-13 (photo)
- LDS: die rust resulting in a rough surfaces on Liberty

Reverse M



- Mintmark (photo)



- All examples seen: radial die crack from rim at K-3 forming a cud above (AMER)I(CA) with the die crack continuing to the eagle's right wing (photo). When did this die crack? It is unknown whether this die cracked on the previous use of this die (WB-24) or on this die marriage. Additional examples of this die marriage are needed for study.
- LDS: die crack around nearly the entire circumference thru the legend denomination, olive leaves, and arrowheads (see next page)
- Clash in shield's lower right and in the field under the right wing

This is the first use of this obverse die and second use of this reverse die.

Date grid: M1.5, .014"	140 reeds	Typical diameter = 1.199	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: MDS: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-25



Obverse 14 (enhanced die cracks in photo at right)



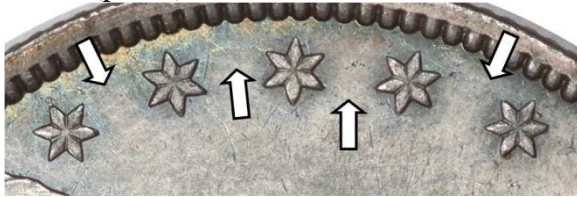
Reverse M (enhanced die cracks in photo at right)

**1858-O
WB-26**

Obverse 14



- Date (photo)

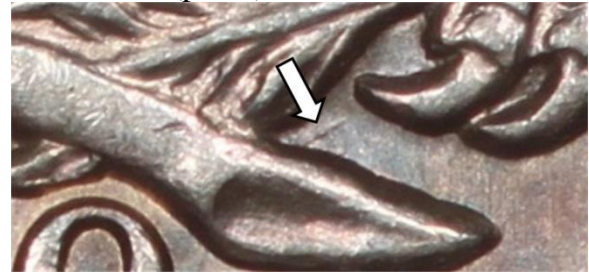


- All examples seen: weak die crack thru stars 9-13 (photo)
- Die rust resulting in a rough surfaces on Liberty
- LDS: heavy clash lines across Liberty's knees and in the drapery below her right elbow

Reverse N



- Mintmark (photo)



- Die line along the upper edge of the olive branch (photo)
- LDS: clash in the shield's lower right

This is the second use of this obverse die and only use of this reverse die.

Date grid: M1.5, .016"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-26



Obverse 14 (enhanced die cracks in photo at right)



Reverse N

**1858-O
WB-27**

Obverse 14



- Date (photo)

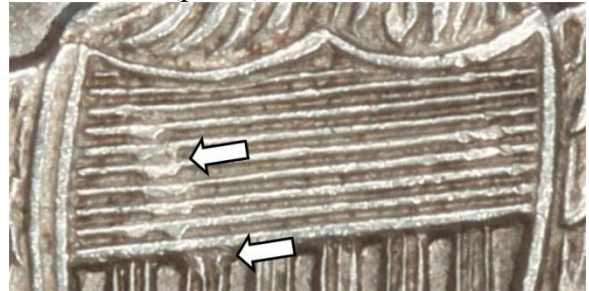


- All die states: clash across Liberty's lap and in the drapery below her right elbow (photo)
- Die cracks connect stars 1-2 and 9-13

Reverse O



- Mintmark (photo)



- Large patch of rust lumps in the upper horizontal shield lines that extends into the upper vertical lines B1-3(photo)

This is the third use of this obverse die and only use of this reverse die.

Date grid: M1.5, .016"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

**1858-O
WB-27**



Obverse 14 (enhanced die cracks in photo at right)



Reverse O

1858-O WB-28, Errant 18 from Rock

Obverse 15



- Date (photo)



- The bottoms of errant digits 18 stick out from the rock support above the 18(58) (photo)
- EDS only: another errant digit between (18)58 (photo)
- Weak horizontal die lines in the field below the rock support under Liberty's foot
- LDS: die crack across lower skirt out Liberty's instep into field

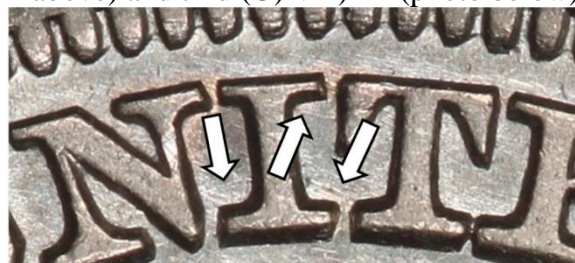
Reverse P



- Mintmark (photo)



- Various die lines thru (STA)TES (photo above) and thru (U)NIT)ED (photo below)



- Clash in the shield's lower right

This is the only use of this obverse die and only use of this reverse die.

Date grid: M2, .016"	140 reeds	Typical diameter = 1.198"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coins depicted: XF45s		Coins from the Bill Bugert and Randy Wiley Collections	
Cross reference: WB-104.		Version 1.325	

1858-O
WB-28, Errant 18 from Rock



Obverse 15



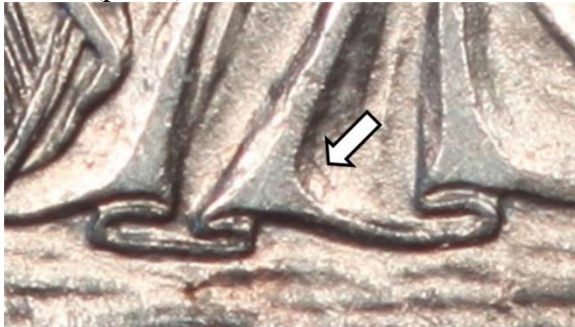
Reverse P

1858-O WB-29

Obverse 16



- Date (photo)



- Diagonal die line in Liberty's skirt to the right of the scroll end (photo)



- LDS: die crack thru the rock support below Liberty's foot to Liberty's toes (photo)
- LDS: clash across Liberty's lap and in the drapery below her right elbow

Reverse Q



- Mintmark (photo)



- EDS: many diagonal (SW to NE) die lines in the shield's lower recessed area (photo)



- LDS: die crack from rim at K-3 thru (AMERI)C(A) to the eagle's right wing (photo). Another die crack thru the olive leaves and along the base of the letters of the denomination.

This is the only use of this obverse die and only use of this reverse die.

Date grid: M2, .008"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Drapery die state: Full to partial	Foot support: Full to partial	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50 and AU58		Coins from the Randy Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-29



Obverse 16 (enhanced die cracks in photo at right)



Reverse Q (enhanced die cracks in photo at right)

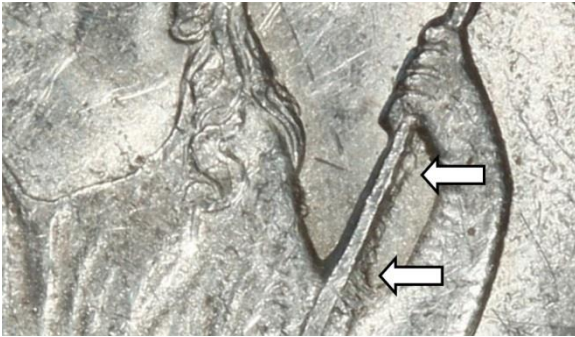
1858-O

WB-30, Errant 8 from Rock above 2nd 8

Obverse 17



- LDS with weak date (photo). The errant 8 in the rock seen on the previous use of this die (WB-29) is now, along with the date and foot support, polished away.
- EDS-MDS: date full



- Crud from die rust along the pole by Liberty's right forearm (photo)

Reverse R



- Mintmark (photo)
- One some examples of this die marriage, there is a very weak die line in the upper loop of the (AME)R(ICA). Otherwise, there are no discernible die diagnostics.

This is the only use of this obverse die and first use of this reverse die.

Date grid: M1.5, .012"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Draperies die state: Weak	Foot support: None	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Dick Osburn Collection	
Cross reference: WB-not listed.		Version 1.325	

1858-O

WB-30, Errant 8 from Rock above 2nd 8



Obverse 17



Reverse R

1858-O WB-31

Obverse 18



- Date (photo)



- Very heavy clash lines across Liberty's lap and under her right elbow (photo). Judging from the multiple sets of clashes, the dies clashed at least twice.



- Horizontal die crack from the left base of the 1(858) to the dentil at left (photo)

Reverse R



- Mintmark (photo)



- Die crack along the base of the letters of the denomination to rim below (D)OL and to the rim to the right of the (DOL). (photo)
- EDS: unclashed
- MDS-LDS: clash in the shield's lower right

This is the only use of this obverse die and second use of this reverse die.

Date grid: M1, .010"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: None	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

**1858-O
WB-31 (DO)**



Obverse 18 (enhanced die cracks in photo at right)



Reverse R (enhanced die cracks in photo at right)

1858-O

WB-32, 1 Repunched North

Obverse 19



- Date right slants down to right (photo)



- The 1 is repunched north; remnants shown below the base of the 1 (photos)



- MDS-LDS only: clash lines across Liberty's lap and under her right elbow (photo)
- EDS: unclashed

Reverse R



- Mintmark (photo)



- Radial die cracks from rim at K-5 along the (D)OL to the eagle's right claw, along the base of the letters of the denomination to rim below (D)OL, and to the rim to the right of the (DOL). (photo)



- All examples seen: base of letters (AMER)ICA connected by a heavy die crack (photo)
- Clash in the shield's lower right

This is the first use of this obverse die and third use of this reverse die.

Date grid: M3, .012"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS62		Coin from the Randy Wiley Collection	
Cross reference: WB-110.		Version 1.325	

1858-O
WB-32, 1 Repunched North



Obverse 19



Reverse R (enhanced die cracks in photo at right)

1858-O

WB-33, 1 Repunched North

Obverse 19



- Date right slants down to right (photo)



- The 1 is repunched north; remnants shown below the base of the 1 (photos). This repunching on the 1 fades with die state until it is not visible on LDS coins.

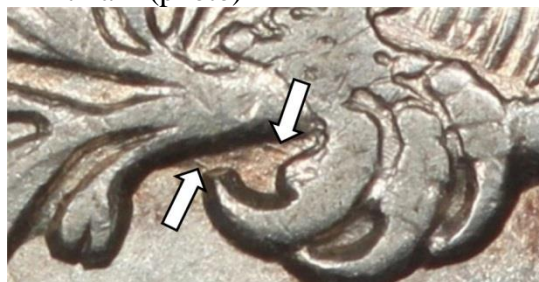


- All examples seen: clash lines across Liberty's lap and under her right elbow (photo)

Reverse S



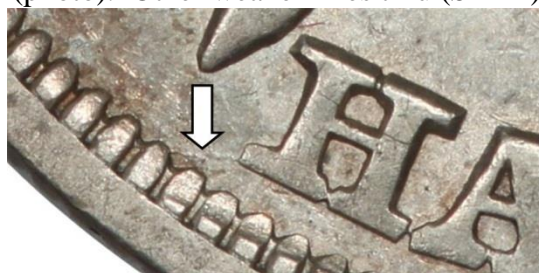
- Mintmark (photo)



- Horizontal die lines in the clutch of the eagle's left claw (photo)



- Die lines between the dentils and STAT(ES) (photo). Other weaker lines thru (STAT)ES



- LDS: die crack from the lower left serif of the H(ALF) to the dentil to the left (photo)
- Clash in shield lower right

This is the second use of this obverse die and only use of this reverse die.

Date grid: M3, .013"	140 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-110.		Version 1.325	

1858-O
WB-33, 1 Repunched North



Obverse 19



Reverse S (enhanced die cracks in photo at right)

1858-O

WB-34, Errant 1 Far Left of 1

Obverse 20



- Date (photo)



- Base of errant 1 to the left of the 1 (photo)



- Rust lumps in the rock along Liberty's left fingers (photo)

Reverse T



- Mintmark (photo)



- Small lump inside the eagle's mouth (photo)

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2.5, .009"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS62		Coin from the Dick Osburn Collection	
Cross reference: WB-not listed.		Version 1.325	

1858-O

WB-34, Errant 1 Far Left of 1



Obverse 20



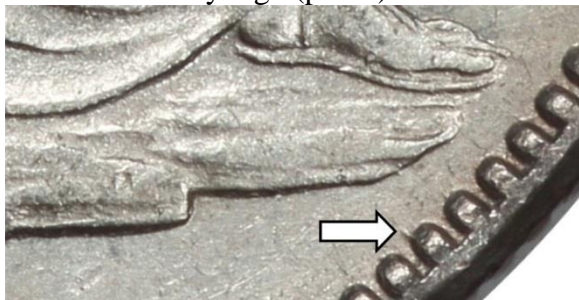
Reverse T

1858-O WB-35, Extra High Date

Obverse 21



- Date extremely high (photo)



- Small tine from the dentil below the ball of Liberty's foot (photo)

Reverse T



- Mintmark (photo)



- Small lump inside the eagle's mouth (photo)



- Diagonal die line from the upper right serif of (UNITE)D to the dentil above (photo)



- Weak die crack from the H(ALF) to the dentil between the first and second olive leaf tips (photo)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .005"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS61		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-35, Extra High Date



Obverse 21



Reverse T (enhanced die cracks in photo at right)

**1858-O
WB-36**

Obverse 21



- Date extremely high (photo)



- Small tine from the dentil below the ball of Liberty's foot (photo) much smaller than on the previous use of this die (WB-35)

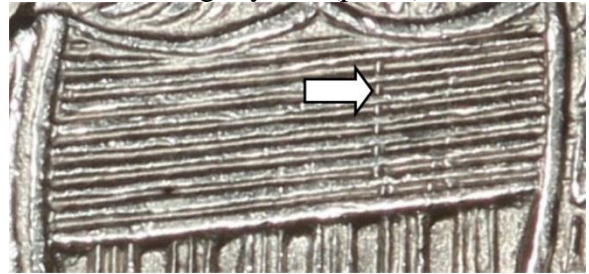


- Die crack from the dentil below the left edge of the base of the 1 diagonally into the rock support, rock, to stars 1 (photo)

Reverse U



- Mintmark slightly low (photo)



- Vertical shield line E1 extends across all the horizontal lines (photo)
- Clash in shield's lower right

This is the second use of this obverse die and only use of this reverse die.

Date grid: M1.5, .008"	140 reeds	Typical diameter = 1.202"	Rarity - 4
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-36



Obverse 21 (enhanced die cracks in photo at right)



Reverse U

1858-O WB-37

Obverse 22



- Date high and right (photo)
- No readily apparent die diagnostics other than the date position
- LDS: one example of this die marriage was seen with strike doubling at the date making it appear as a doubled date.

Reverse V



- Mintmark (photo)



- Diagonal die line from (STA)T(ES) to the dentil above (photo)



- Weak bottoms of vertical shield lines C1-3 (photo)

This is the first use of this obverse die and only use of this reverse die.

Date grid: M3, .006"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Draperies die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

1858-O
WB-37



Obverse 22



Reverse V

**1858-O
WB-38**

Obverse 22

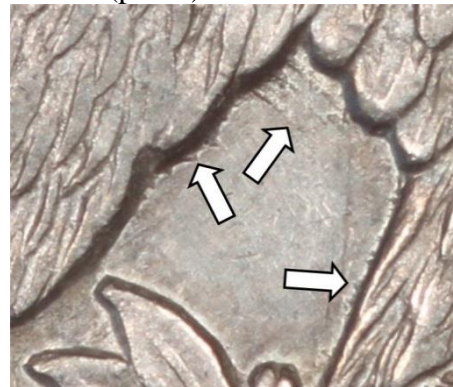


- Date high and right (photo)
- No readily apparent die diagnostics other than the date position

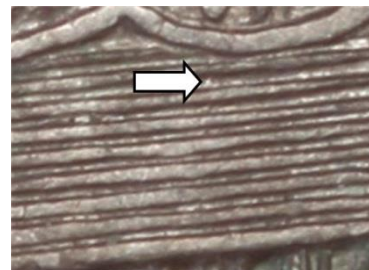
Reverse W



- Mintmark (photo)



- Diagonal die lines directly under the eagle's left wing; additional "tines" from the inside of the eagle's left wing and along the inside of the eagle's left leg (photo). These lines fade with die wear.



- Extended die line from vertical shield line E1 into the upper horizontal shield lines (photo)
- EDS: horizontal die lines in the shield's lower recessed areas

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2.5, .009"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Draper die state: Partial	Foot support: Partial	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1858-O
WB-38**



Obverse 22



Reverse W

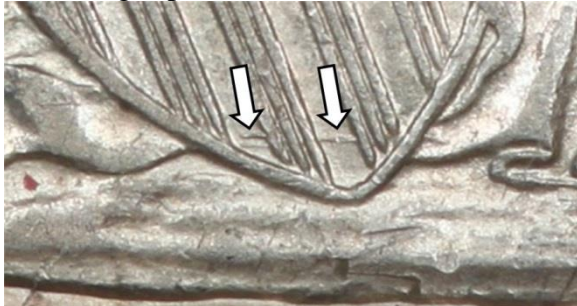
1858-O

WB-39, Base of 1 Inside Shield

Obverse 23



- Date high (photo)



- Base of an errant 1 in the lower shield recessed area (photo). In EDS, the lower left base of the errant 1 is doubled (photo above). This errant 1 is visible on coins grading as low as VG10.

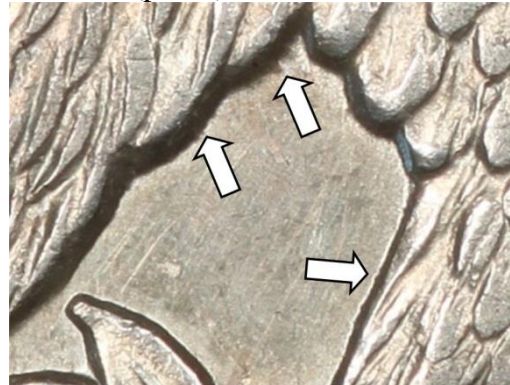


- LDS: die crack from the dentil at K-7 to the rock support up into the ribbon (photo)

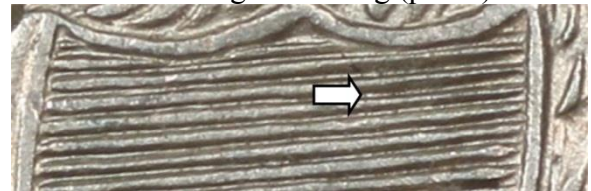
Reverse W



- Mintmark (photo)



- Diagonal die lines directly under the eagle's left wing see on the previous use of this die (WB-38) are now merely tiny tines from the inside of the eagle's left wing and along the inside of the eagle's left leg (photo)



- Extended die line from vertical shield line E1 into the upper horizontal shield lines (photo)
- LDS: die crack between (AMERI)CA

This is the first use of this obverse die and second use of this reverse die.

Date grid: M1, .006"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Draperly die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Randy Wiley Collection	
Cross reference: WB-not listed.		Version 1.325	

1858-O

WB-39, Base of 1 Inside Shield



Obverse 23 (enhanced die cracks in photo at right)



Reverse W (enhanced die cracks in photo at right)

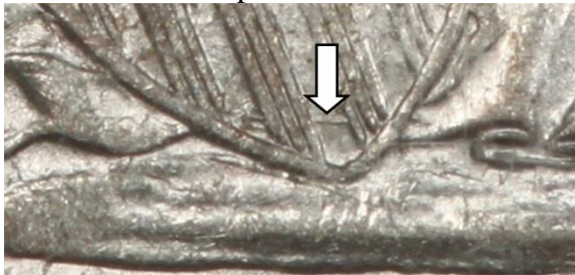
1858-O

WB-40, Base of 1 Inside Shield

Obverse 23



- EDS: date high and weakly struck digits (photo). This may be a struck thru grease; some LDS examples have a full date.



- Base of an errant 1 in the lower shield recessed area (photo). Since it is in the recessed area, it is visible on coins grading as low as VG10.

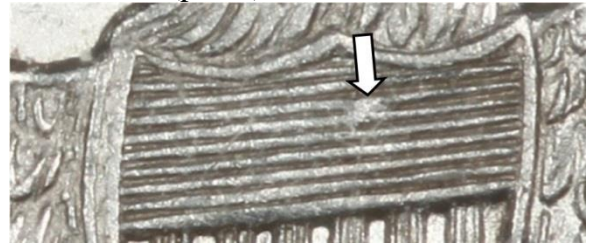


- All die states: die crack from the dentil at K-7 to the rock support up into the ribbon (photo)

Reverse X



- Mintmark (photo)



- Large lump in the upper horizontal shield lines (photo)
- Note: very weak letters of the legend (see photo next page) as a result of the struck, not die state.

This is the second use of this obverse die and first use of this reverse die.

Date grid: M1, .008"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Weak	Foot support: None	Dentils: Obverse - Weak; Reverse - Weak	
Grade of coin depicted: NGC AU55		Coin from the Dick Osburn Collection	
Cross reference: WB-not listed.		Version 1.325	

1858-O

WB-40, Base of 1 Inside Shield



Obverse 23 (enhanced die cracks in photo at right)



Reverse X

**1858-O
WB-41**

Obverse 24



- Date (photo)

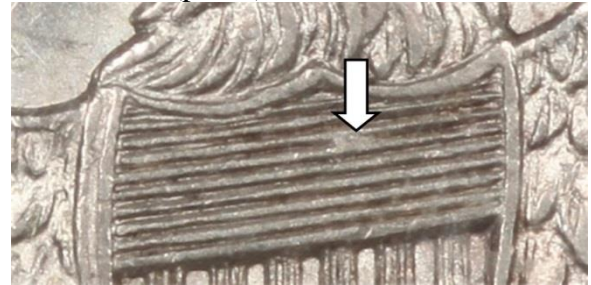


- Two small lumps in Liberty's skirt to the right of the scroll end (photo)

Reverse X



- Mintmark (photo)



- Large lump in the upper horizontal shield lines (photo)
- Clash in lower right shield

This is the only use of this obverse die and second use of this reverse die.

Date grid: M1, .010"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: NGC AU55		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

**1858-O
WB-41**



Obverse 24



Reverse X

1859-O

With a very high mintage, this date may not interest most collectors. It does have four WB-100 series varieties with enough distinction, a number of less prominent die marriages, and lower than typical Liberty Seated half dollar costs, all of which may attract attention.

Sixteen die marriages are known as depicted in the tables below.












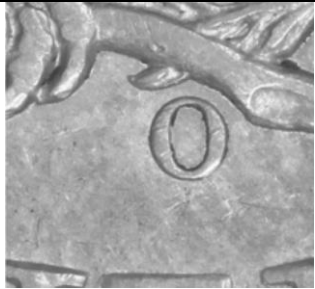

Mintage	Number of Dies	Number of Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
2,834,000	Requested		*	*	1 (140)
	Shipped	-	10*	0*	
	Known	16	12	13	

Note *: U.S .Archive's die shipment records are incomplete.

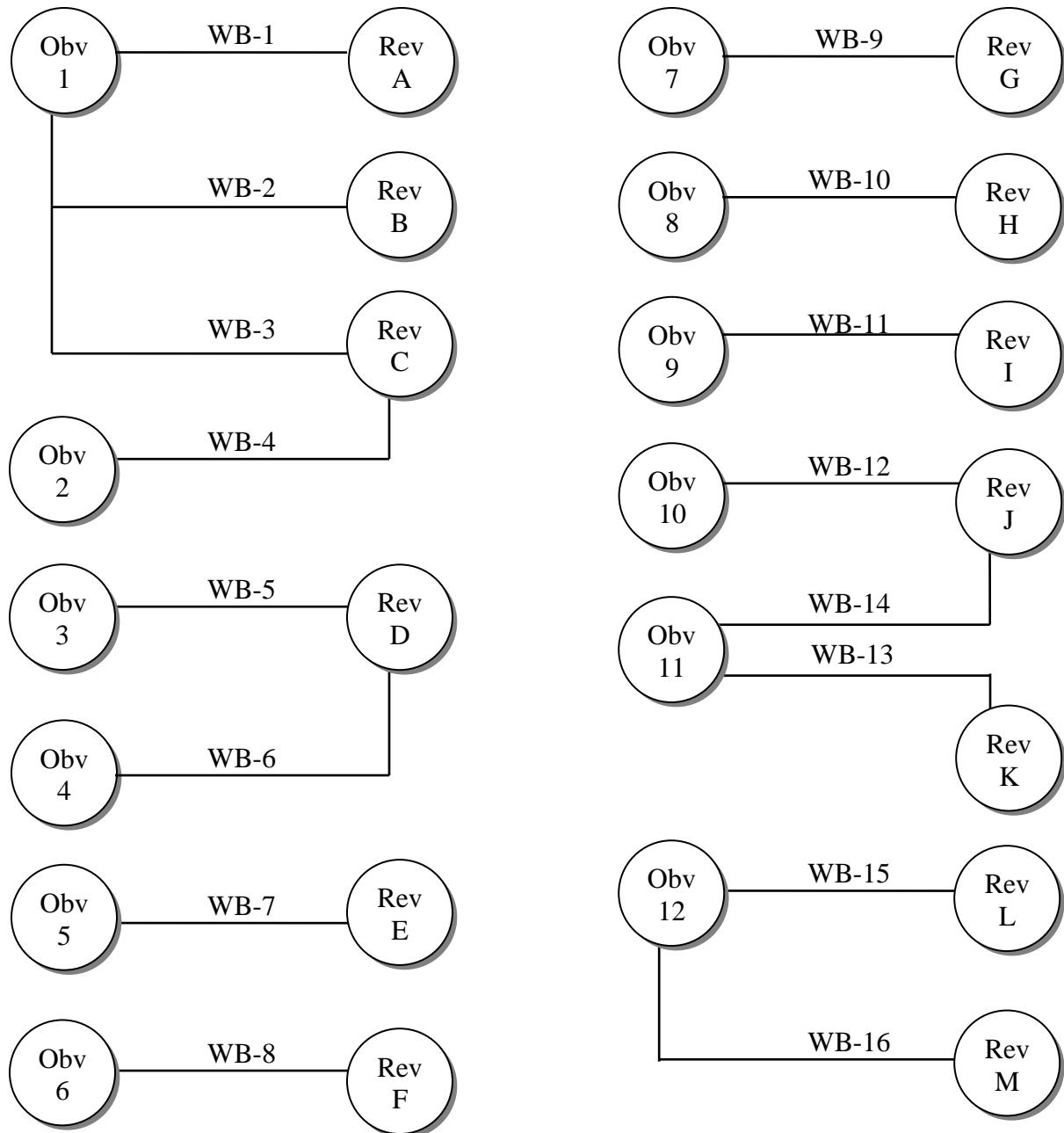
1859-O date grid quick reference table

Obverse die date grid	Die Marriage
L5, .030"	WB-14
L5.5, .024"	WB-11
L5.5, .025"	WB-5
L5.5, .026"	WB-13
M1 , .018"	WB-12
M1 , .018"	WB-9
M1 , .024"	WB-7
M1 , .024"	WB-8
M1.5, .022"	WB-6
M1.5, .024"	WB-15
M1.5, .026"	WB-16
M1.5, .026"	WB-4
M1.5, .028"	WB-10
M4 , .024"	WB-3
M4.5, .020"	WB-1
M4.5, .022"	WB-2

1859-O Half Dollar Mintmark Positions

 <p>Reverse A, WB-1</p>	 <p>Reverse B, WB-2</p>	 <p>Reverse C, WB-3, 4</p>
 <p>Reverse D, WB-5, 6</p>	 <p>Reverse E, WB-7</p>	 <p>Reverse F, WB-8</p>
 <p>Reverse G, WB-9</p>	 <p>Reverse H, WB-10</p>	 <p>Reverse I, WB-11</p>
 <p>Reverse J, WB-12 14</p>	 <p>Reverse K, WB-13</p>	 <p>Reverse L, WB-15</p>
 <p>Reverse M, WB-16</p>		

1859-O Half Dollar Die Linkage Diagram



1859-O Obverse and Reverse die identification keys		Die lines and clash in shield	Heavy die rust	Tiny lump between vertical shield lines C1-2	Mintmark very high	Weak die lines thru (UND)/TE(D)	No major die diagnostics
		A	B	C	D	E	F
Errant 9 in dentils	1	WB-1	WB-2	WB-3			
Tiny tine on the 1	2			WB-4			
Tiny lump on Liberty's gown	3				WB-5		
Errant 9 in rock	4				WB-6		
Die line in Liberty's gown	5					WB-7	
Multiple die cracks	6						WB-8

1859-O Obverse and Reverse die identification keys (Continued)		Die unfinished with surface roughness within the eagle's right claw	"Crud" or areas of die roughness	Die lines in the recessed areas between the eagle's neck feathers	Die lines from the eagle's left leg	Rough surfaces on the inside lower left of the shield	Lumps in the feathers on the eagle's upper left wing	Broken/split upper vertical shield line F2
		G	H	I	J	K	L	M
1 repunched north	7	WB-9						
No die diagnostics	8		WB-10					
No die diagnostics	9			WB-11				
Die roughness along the right edge of the staff	10				WB-12			
Clash marks in the drapery	11				WB-14	WB-13		
Large tine on the 1	12						WB-15	WB-16

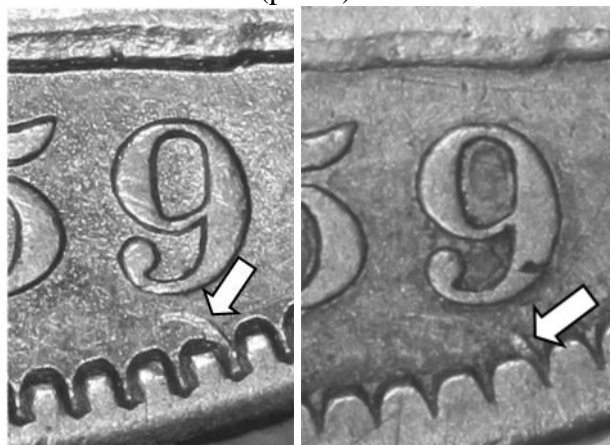
1859-O

WB-1, Errant 9 in Dentils

Obverse 1



- Date with errant 9 in dentils below prominent 9 and another small lump (minor repunching?) in the field to the upper left of the serif of the 1 (photo)

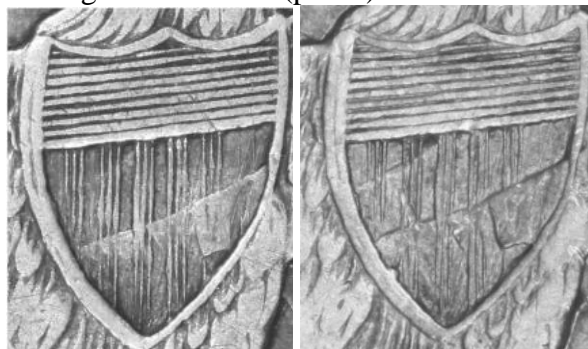


- Errant 9 in dentils that fades with die wear and die maintenance; EDS with strong errant 9 (photo above left), LDS with much weaker errant 9 (photo above right). Examples with varying visibility of the errant 9 can be easily found.

Reverse A



- Large O mintmark (photo)



- Mid to late die states of this reverse show clash marks in the shield from at least two separate clashing. EDS has no die clashes, MDS with initial clashes in the shield (photo above left), LDS with very heavy clashes (at least two separate clashes in shield) (photo above right). These clash marks are sometimes misidentified as cuds.
- Diagonal (NE to SW) die lines show beneath the clash marks on later die states.
- I have not seen this reverse with die cracks; with the heavy clash marks, it was probably retired before the die cracked.

This is the first use of this obverse die and only use of this reverse die.

Date grid: M4.5, .020"	140 reeds	Typical diameter = 1.200"	EDS: Rarity - 2 LDS: Rarity - 5
Drapery die state: Full to partial	Foot support: Full to weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: XF45 LDS: F15		Coins from the Bill Bugert and Randy Wiley Collections	
Cross reference: WB-102.		Version 1.325	

1859-O
WB-1, Errant 9 in Dentils



Obverse 1



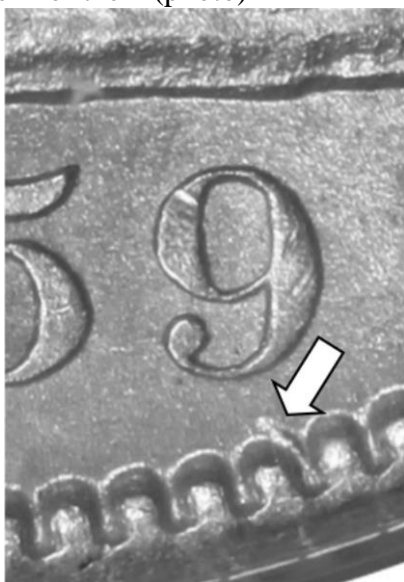
Reverse A

1859-O WB-2, Errant 9 in Dentils

Obverse 1

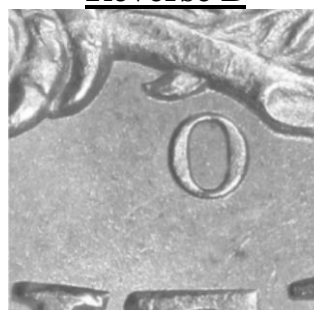


- Date with errant 9 in dentils below prominent 9 and another small lump (minor repunching?) in the field to the upper left of the serif of the 1 (photo)

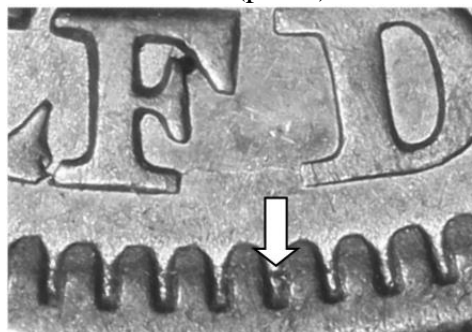


- Close up of errant 9 in dentils, now a small sliver protruding from between the dentils (photo)
- LDS: die crack from the tip of Liberty's toes to the third dentil up at K-4

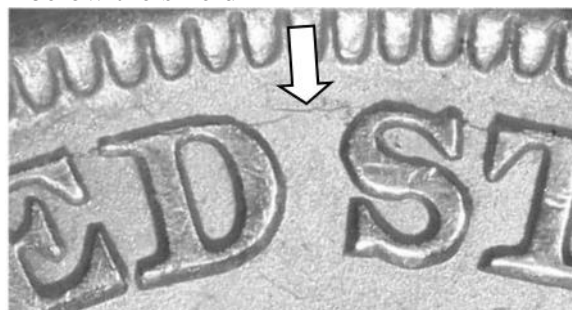
Reverse B



- Large O mintmark in a slightly lower position than WB-1 (photo)



- Lump between the dentils below (HAL) F D(OL) (photo)
- All examples seen: die rust obliterates detail of the lower shield and eagle's tail feathers below the shield



- All examples seen: weak die cracks around the legend, denomination, and thru the tip of olive leaf #2 that are similar to but different than WB-3; prominently along the top of letters (UNITE)D S(TATES) (photo)

This is the second use of this obverse die and only use of this reverse die.

Date grid: M4.5, .022"	140 reeds	Typical diameter = 1.200"	Rarity - 3
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Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full
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Grade of coin depicted: PCGS MS62	Coin from the Bill Bugert Collection
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Cross reference: WB-102.	Version 1.325
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1859-O
WB-2, Errant 9 in Dentils



Obverse 1



Reverse B (enhanced die cracks in photo at right)

1859-O

WB-3, Errant 9 in Dentils

Obverse 1



- Date with errant 9 in dentils below prominent 9 very weak in this EDS (photo). The small lump seen in the field to the upper left of the serif of the 1 on previous uses of this die (WB-1 and WB-2) is now not visible.

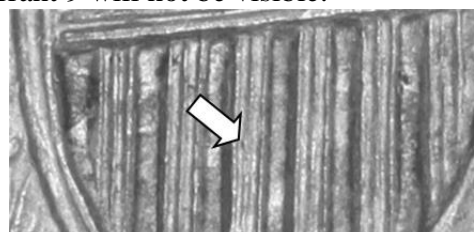


- The errant 9 in the dentils below the prominent 9 is very weak and can be seen only in EDS (photo above left); on LDS coins, the errant 9 is not visible (photo above right).
- LDS: die crack from the tip of Liberty's toes to the third dentil up at K-4

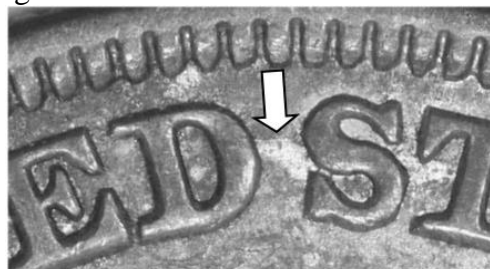
Reverse C



- Large O mintmark high in the crotch of the olive stem and feather (photo). Of the three reverse dies used with obverse 1 (WB-1, 2, 3), this die has the mintmark in the highest position, facilitating ready identification. This is especially useful on LDS coins as the errant 9 will not be visible.



- Tiny lump in the recessed area midway between vertical shield lines C1-2 (photo). This lump is visible on coins grading VF or higher.



- LDS: weak die cracks around the legend and denomination that are similar to but different than WB-2; prominently between (UNITE)D S(TATES) (photo)

This is the third and last use of this obverse die and first use of this reverse die.

Date grid: M4, .024"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Draperies die state: Partial	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: EDS: AU58 LDS: VF25		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-102.		Version 1.325	

1859-O
WB-3, Errant 9 in Dentils



Obverse 1



Reverse C (enhanced die cracks in photo at right)

1859-O WB-4

Obverse 2



- Date (photo)

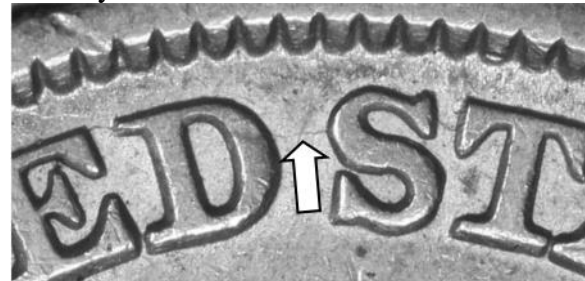


- Tiny tine on the upper left serif of the 1 (photo)
- No readily apparent die diagnostics other than the tine on the 1

Reverse C



- Large O mintmark high in the crotch of the olive stem and feather (photo)
- Tiny lump in the recessed area midway between vertical shield lines C1-2 now barely visible



- All examples (since the die cracks are on the previous use of this die): weak die cracks around the legend and denomination that are similar to but different than WB-2; prominently between (UNITE)D S(TATES) (photo). Other prominent die cracks along the arrowheads to (AMERIC)A.

This is the only use of this obverse die and second and last use of this reverse die.

Date grid: M1.5, .026"	140 reeds	Typical diameter = 1.201"	Rarity - 3
Dravery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-4**



Obverse 2



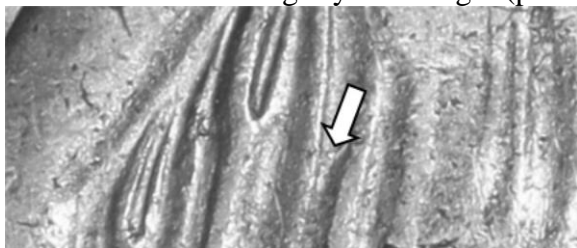
Reverse C (enhanced die cracks in photo at right)

1859-O WB-5

Obverse 3



- Date slants down slightly to the right (photo)

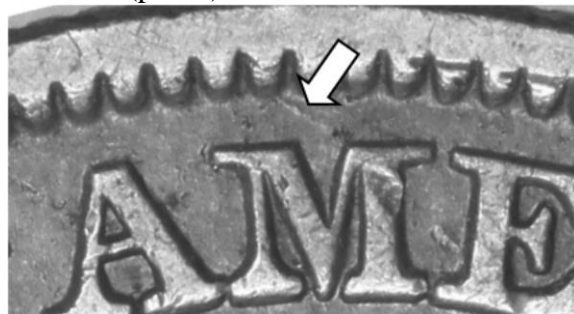


- Tiny lump in the recessed area of Liberty's gown to the upper right of her left elbow (photo)

Reverse D



- Large O mintmark very high; almost touches the croch formed by the olive stem and feather (photo)



- Small diagonal (NW to SE) die line from dentil to (A)M(ERICA) (photo)



- All examples seen: die crack from the dentil below olive leaf #1 to and along base of HAL(F) (photo)
- Clash in shield's lower right

This is the only use of this obverse die and first use of this reverse die.

Date grid: L5.5, .025"	140 reeds	Typical diameter = 1.201"	Rarity - 3
Draper die state: Full to None	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-5**



Obverse 3



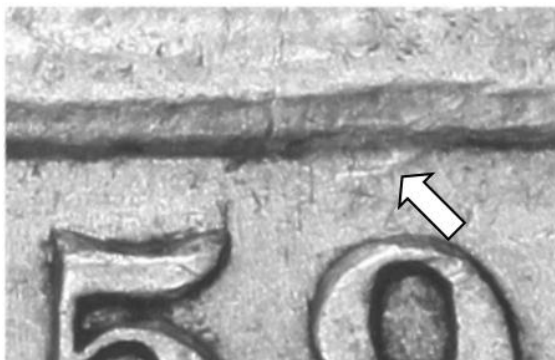
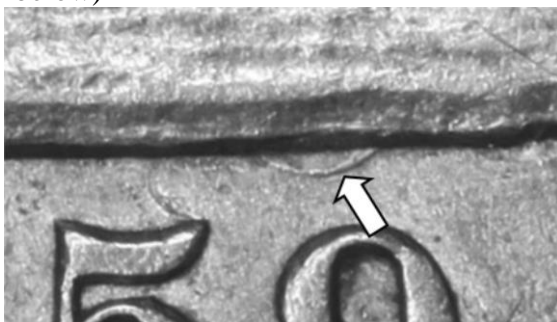
Reverse D

1859-O WB-6, Errant 9 from Rock

Obverse 4



- Date with the bottom loop of an errant 9 protruding from the rock support above the prominent 9 in the date (photos above and below)



- Many examples seen are LDS with very weak or barely visible errant 9 (photo above)

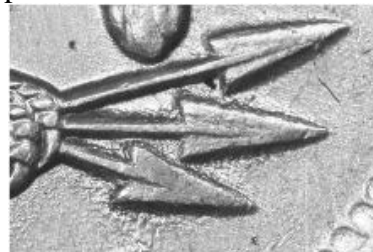
Reverse D



- Large O mintmark very high; almost touches the crotch formed by the olive stem and feather (photo)
- The small diagonal die line from dentil to (A)M(ERICA) seen in the previous use of this die (WB-5) is now very weak on EDS coins to not visible on LDS coins.



- All examples (since the die crack is on the previous use of this die): die crack from the dentil below olive leaf #1 to and along base of HAL(F) (photo). Other die cracks along the top of letters UNITED STATES



- Die rust in and around the arrowheads (photo)
- Clash in shield's lower right

This is the only use of this obverse die and second and last use of this reverse die.

Date grid: M1.5, .022"	140 reeds	Typical diameter = 1.201"	EDS Rarity - 4 LDS Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: EDS: AU50 LDS: XF45		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-103.		Version 1.325	

1859-O
WB-6, Errant 9 from Rock



Obverse 4



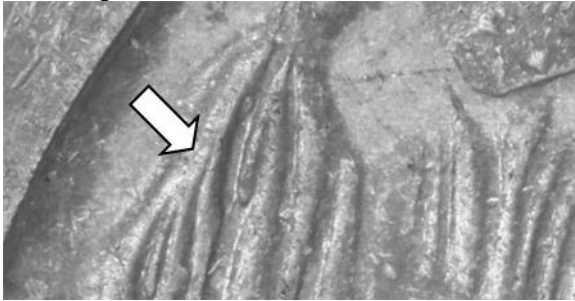
Reverse D

**1859-O
WB-7**

Obverse 5



- Date (photo)

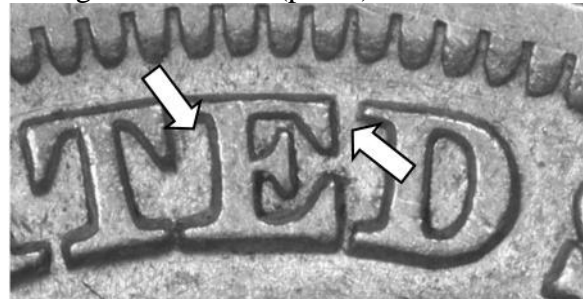


- Tiny die line in Liberty's gown in the recessed area to the right of her left bicep (photo)

Reverse E



- Large O mintmark (photo)



- Weak die lines thru (UNI)TE(D) (photo)

This is the only use of this obverse die and only use of this reverse die.

This pair of dies is bland with very poor die diagnostics.

Date grid: M1, .024"	140 reeds	Typical diameter = 1.204"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF40		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1859-O
WB-7



Obverse 5



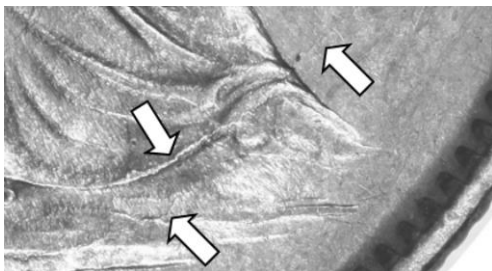
Reverse E

1859-O WB-8, Bisected Date

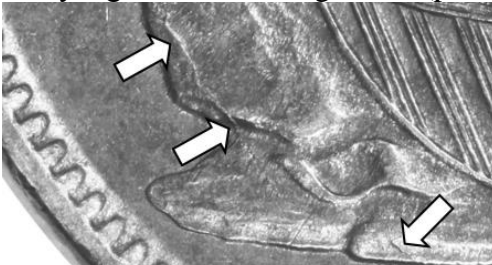
Obverse 6



- Date (photo). LDS (photo above) has a radial die crack from the dentil vertically between (1)85(9) thru the rock support into Liberty's gown; other prominent die cracks as below.



- Multiple die cracks in rock support and Liberty's gown near the right foot (photo)



- Multiple die cracks in rock support and rock (photo)
- LDS: clash marks in Liberty's drapery below her elbow and in field to the right of Liberty's right elbow

Reverse F



- Large O mintmark (photo)
- LDS: die crack along olive leaves #1-3 and along the top of the letters of the legend
- Multiple clash marks in the field under the eagle's right wing; clash in shield's lower right
- Near Mint State coins only: small triangular shaped rim cud above (UNI)T(ED); this cud disappears quickly with coin wear.

This is the only use of this obverse die and only use of this reverse die.

This pair of dies is bland; excluding die cracks, they have very poor die diagnostics.

Date grid: M1, .024"	140 reeds	Typical diameter = 1.201"	Rarity - 4
Drapery die state: Partial	Foot support: None	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

1859-O
WB-8, Bisected Date



Obverse 6 (enhanced die cracks in photo at right)



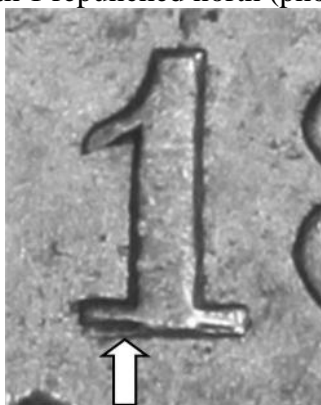
Reverse F (enhanced die cracks in photo at right)

1859-O WB-9, Repunched 1

Obverse 7



- Date with 1 repunched north (photo)

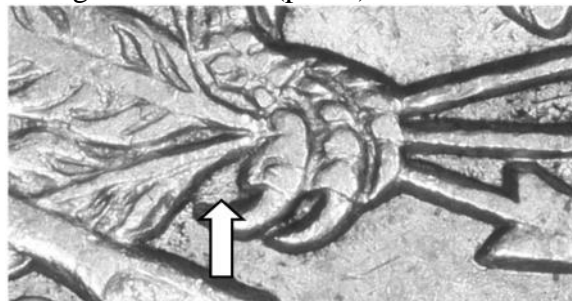


- Base of the 1 repunched and visible even on low grade coins (photo)
- No readily apparent die diagnostics other than the repunched base of the 1(859)

Reverse G



- Large O mintmark (photo)



- All examples seen of varying die states: die unfinished with surface roughness within the eagle's right claw (photo) and along the inside lower right of the shield



- LDS: die deterioration with signs of roughness between the dentils and legend letters OF AMERICA ((AME)RICA in photo). This roughness does not show on EDS coins.

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1, .018"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Dravery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45 LDS: XF45		Coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-104.		Version 1.325	

1859-O
WB-9, Repunched 1



Obverse 7



Reverse G

**1859-O
WB-10**

Obverse 8

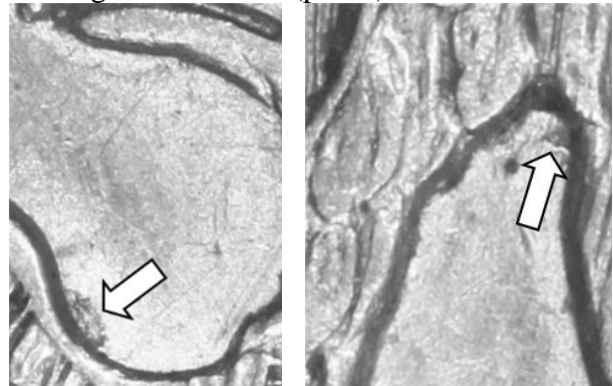


- Date (photo)
- No readily apparent die diagnostics other than the weak dentils; note weak dentils in the photo above.
- This die has not been seen with die cracks.

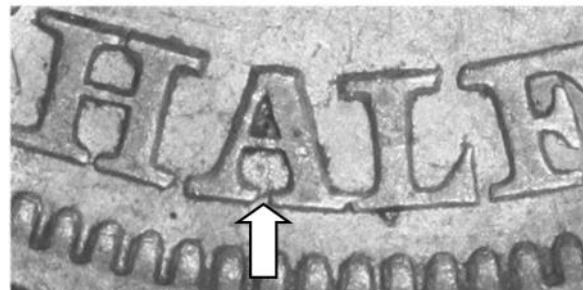
Reverse H



- Large O mintmark (photo)



- “Crud” or areas of die roughness along the upper edge of the left wing (photo above left), below the underside of the right wing (photo above right); others on the eagle’s left wing and in the (H)A(LF) (photo below)



- This die has not been seen without die cracks.

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1.5, .028”	140 reeds	Typical diameter = 1.200”	Rarity - 4
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-10**



Obverse 8



Reverse H

1859-O WB-11

Obverse 9



- Date (photo)
- No readily apparent die diagnostics
- All examples seen: stars 6-9 weakly struck

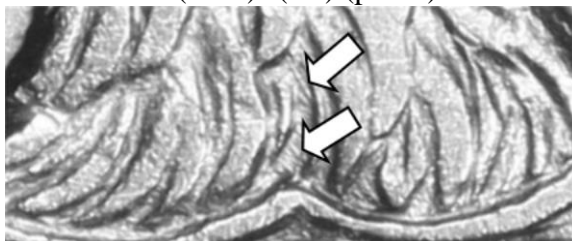
Reverse I



- Large O mintmark (photo)



- EDS only: parallel die lines between the dentils and (STA)T(ES) (photo)



- Die lines in the recessed areas between the eagle's neck feathers above the shield center point; these lines are much weaker but visible on LDS coins (photo of EDS)

This is the only use of this obverse die and only use of this reverse die.

Date grid: L5.5, .024"	140 reeds	Typical diameter = 1.204"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF40 and MS61		Coins from the Bill Bugert Collection and the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-11**



Obverse 9



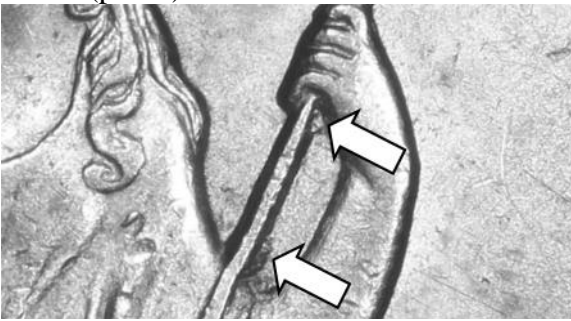
Reverse I

**1859-O
WB-12**

Obverse 10



- Date (photo)

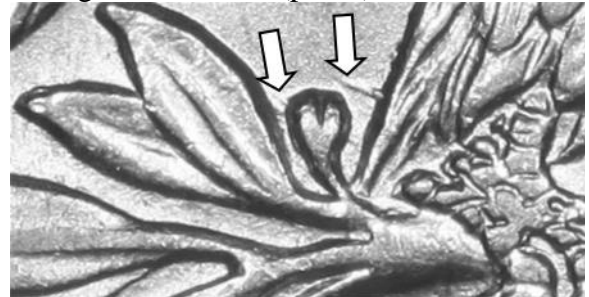


- “Crud” or areas of die roughness along the right edge of the staff between Liberty’s hand and forearm (photo)

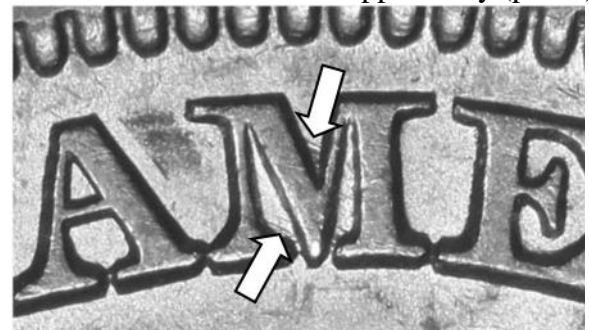
Reverse J



- Large O mintmark (photo)



- Die lines from the eagle’s left leg into the field above and thru the upper berry (photo)



- Diagonal (NW to SE) die lines thru (A)M(ERICA) (photo); other vertical die lines thru (STAT)ES on EDS coins only
- LDS: weak die crack along the top of letters (AME)RICA

This is the only use of this obverse die and only use of this reverse die.

Date grid: M1, .018”	140 reeds	Typical diameter = 1.198”	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU58		Coin from the Bill Bugert Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-12**



Obverse 10



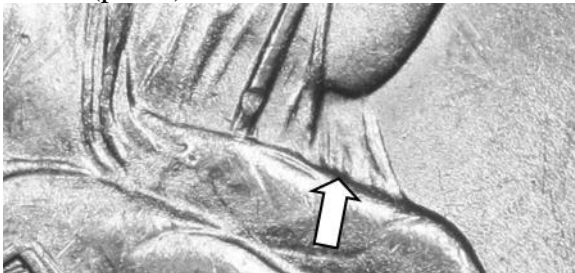
Reverse J

1859-O WB-13

Obverse 11



- Date (photo)

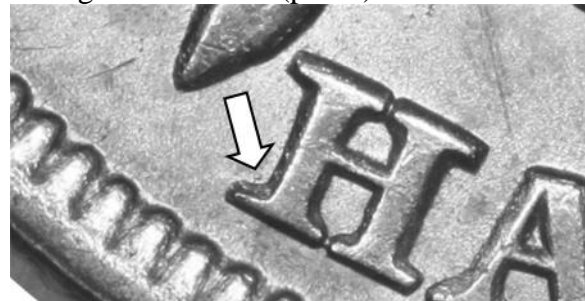


- All examples seen: clash marks in the drapery below her right elbow (photo)
- No readily apparent die diagnostics

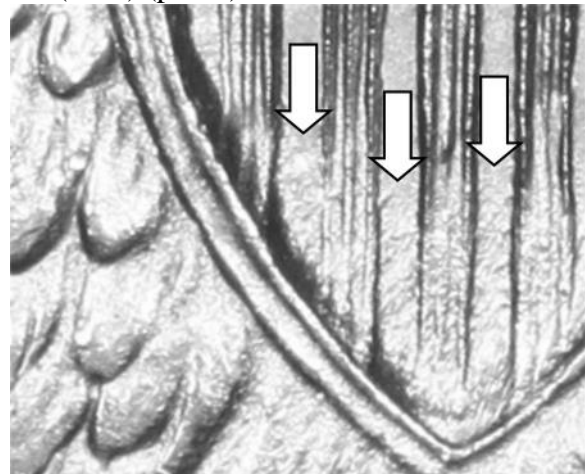
Reverse K



- Large O mintmark (photo)



- Tiny lump above the lower left serif of the H(ALF) (photo)



- Rough surfaces (unfinished die) on the inside lower left of the shield (photo)
- All examples seen: very weak or worn dentils from K-8 to K-3
- Clash in shield's lower right

This is the only use of this obverse die and only use of this reverse die.

Date grid: L5.5, .026"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Weak	
Grade of coin depicted: MS62		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-13**



Obverse 11



Reverse K

**1859-O
WB-14**

Obverse 11



- Date (photo)



- All examples seen: clash marks in the drapery below her right elbow (photo)
- No readily apparent die diagnostics

Reverse J



- Large O mintmark (photo)



- Die lines from the eagle's left leg into the field above and thru the upper berry (photo)
- The diagonal (NW to SE) die lines thru (A)M(ERICA) seen on the previous use of this die (WB-12) are now very weak.
- Weak die crack along the top of letters (AME)RICA

This is the second use of this obverse die and second use of this reverse die.

Date grid: L5, .030"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Weak	
Grade of coin depicted: MS63		Coin from the Dick Osburn Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-14**



Obverse 11



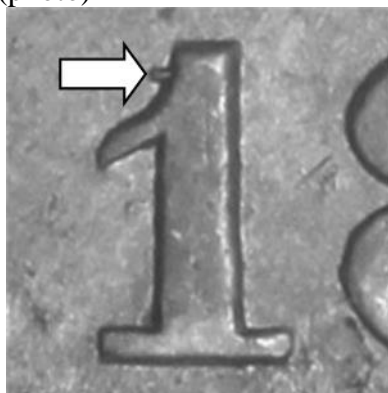
Reverse J

1859-O WB-15

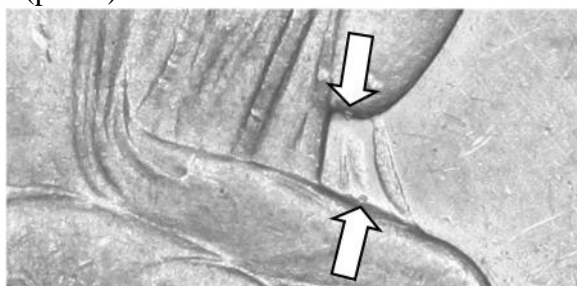
Obverse 12



- Date (photo)

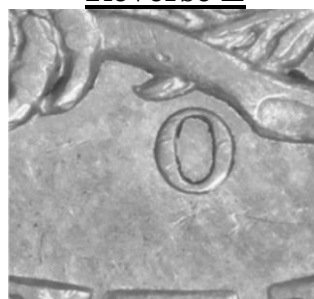


- Tine on the upper left above the serif of the 1 (photo)

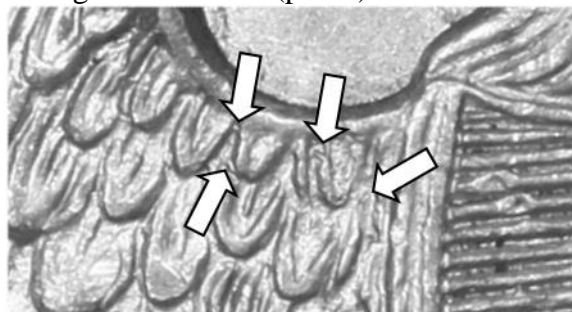


- Two very small lumps: one on Liberty's elbow and the other on Liberty's leg inside the drapery (photo)

Reverse L



- Large O mintmark (photo)



- Lumps in the feathers on the eagle's upper left wing near the shield (photo)



- MDS to LDS: die deterioration and/or rust with signs of roughness between the dentils and legend letters (STAT)ES OF AMER(ICA) ((STAT)ES OF in photo). This roughness does not show on EDS coins.
- LDS: clash in shield's lower right

This is the first use of this obverse die and only use of this reverse die.

Date grid: M1.5, .024"	140 reeds	Typical diameter = 1.200"	Rarity - 3
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Drapery die state: Full to Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full
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Grade of coin depicted: EDS: XF45 LDS: AU55	EDS: coin from the Bill Bugert Collection LDS: coin from the Randy Wiley Collection
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Cross reference: WB-101.

Version 1.325

**1859-O
WB-15**



Obverse 12



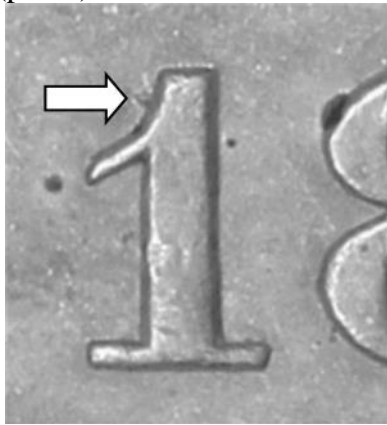
Reverse L

**1859-O
WB-16**

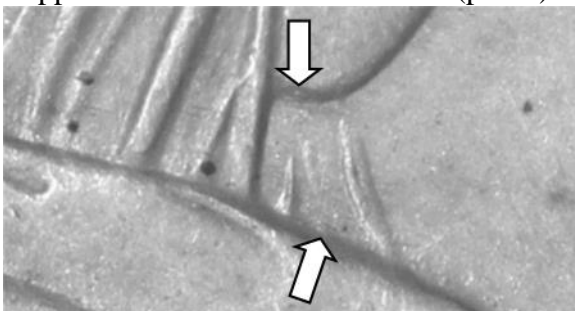
Obverse 12



- Date (photo)

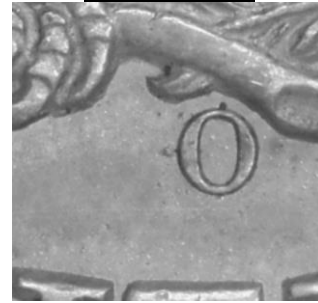


- EDS only: tine (now much weaker than on the previous use of this die, WB14) on the upper left above the serif of the 1 (photo)

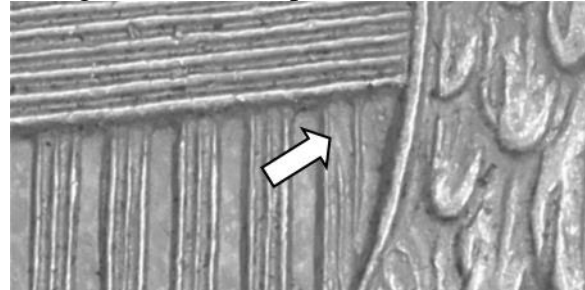


- Two very small lumps: one on Liberty's elbow and the other on Liberty's leg inside the drapery (photo)

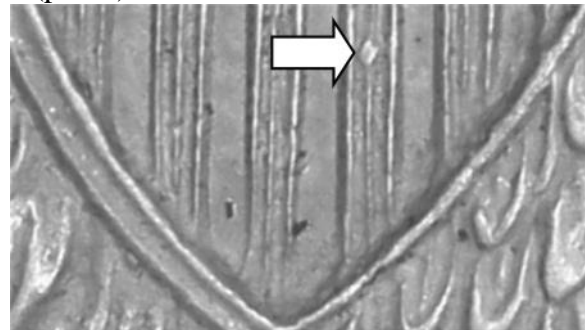
Reverse M



- Large O mintmark (photo)



- Broken/split upper vertical shield line F2 (photo)



- Lump on vertical shield line D2
- This reverse die is transitional with 1860-O (Reverse A).

This is the second and last use of this obverse die and only use of this reverse die.

Date grid: M1.5, .026"	140 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS60		Coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1859-O
WB-16**



Obverse 12



Reverse M

1860-O

Some half dollar collectors consider this date uninteresting. Unfortunately, I half-heartily agree but some other dates such as 1855-O are much more so. With some major varieties and a limited and manageable number of die marriages, this date may elicit your interest. It has two major reverse hubs, an interesting reverse die with reworked shield vertical lines, and a mintmark placement unlike any other date in the Liberty Seated half dollar series. I hope this introduction will interest you enough to read on.

Twelve die marriages are known as depicted in the tables below.

Mintage	Number of Dies	Number of Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
1,290,000	Requested	-	6*	3*	1 (140)
	Shipped	-	6*	12*	
	Known	12	7	7	

Note *: U.S. Archive's die shipment records are incomplete.

Reverse hubs. 1860 is the first year of use for the type 2 reverse hub at the New Orleans Branch Mint.



Type 1 reverse hub. Previously, the type 1 hub was used on Liberty Seated half dollars and is readily identified by the short base on the letter (HA)L(F) and the lack of a lump along the eagle's left leg (see image at left). Three 1860-O reverse dies were used from this type 1 hub.

Type 2 reverse hub. The type 2 reverse is easily identified by the long base on the letter (HA)L(F) and a diagnostic lump along the eagle's left leg (see image at right). Four 1860-O reverse dies were used from this type 2 hub.



1860-O half dollars in hoards. Some 1860-O half dollars were included in famous hoards of coins, a few worth mentioning here.

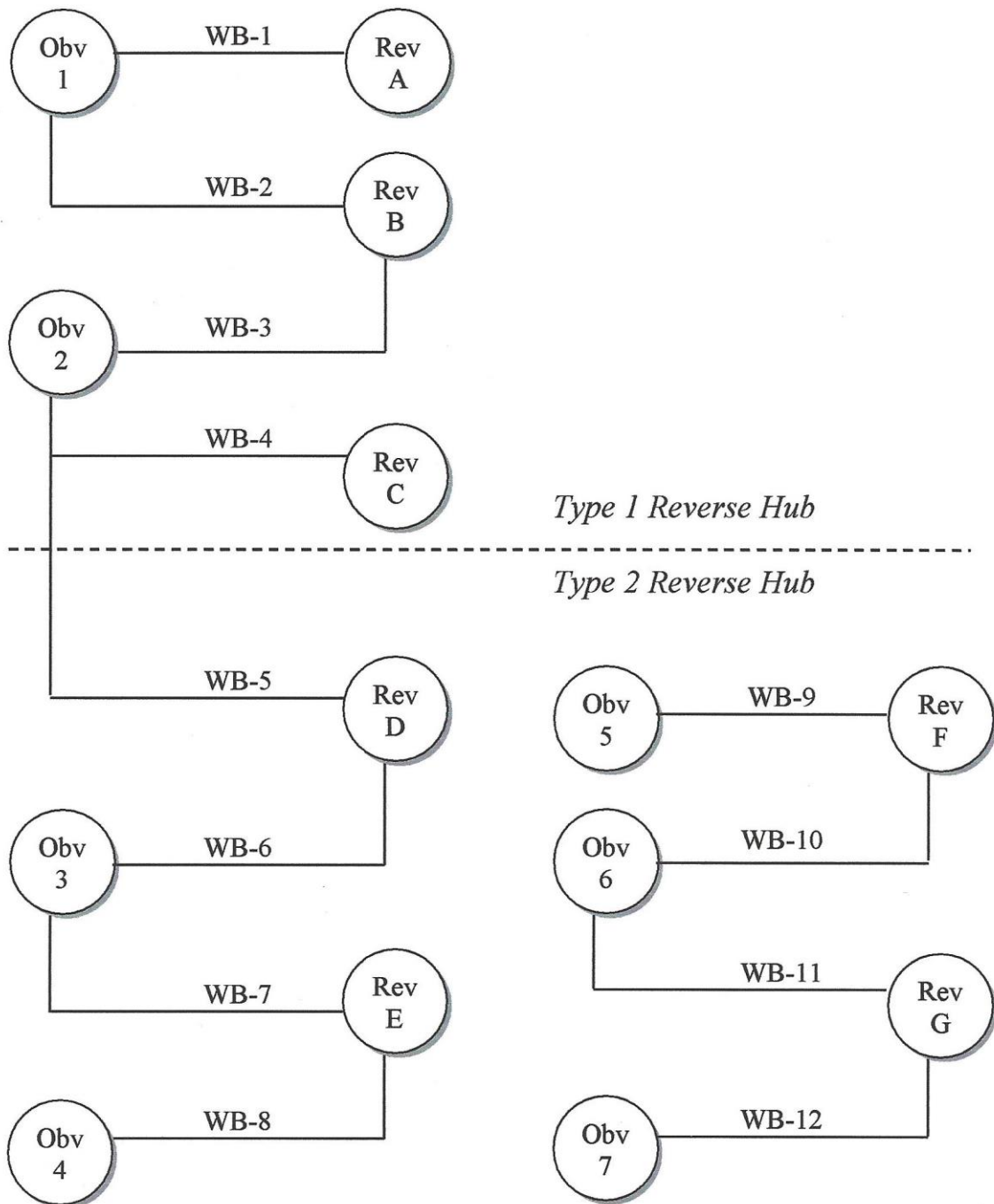
SS Republic. Many 1860-O half dollars were in the 1865 wreck of the ship, the SS Republic. The Odyssey Marine Exploration, who recovered the massive fortune of silver and gold coins from this wreck, promoted at least three varieties of this date in NGC "Shipwreck Effect" holders labeled as:

- "Shield Lines" [identified here as the "weird vertical stripes" varieties WB-2 and WB-3]
- "High O" [identified here as the "eagle laying egg" varieties WB-7 and WB-8]
- No qualifier [all other 1860-O die marriages]

Christy's 1991 hoard. The September 13, 1991 Christie's auction included "an extraordinary part roll" of fifteen 1860-O half dollars (all plated, lots #455 to 469) in grades ranging from Choice BU to NGC MS65. The exact die marriages are unknown but the lot 456 blow-up and larger images on the auction catalogue cover indicated most (if not all) were WB-9s.

Tuscaloosa Collection. At least one 1860-O half dollar was in this hoard, possibly others. Unearthed in the 1990s, this large hoard of U.S. and foreign silver and gold coins was found by a property owner digging fence postholes along an old stagecoach route near modern day Tuscaloosa, Alabama. Most of the coins were dated in the 1850's, from the New Orleans Branch Mint, and of various Liberty Seated denominations. NGC apparently encapsulated most of these coins, labeling them as from the "Tuscaloosa Hoard." These coins are thought to have been buried just prior to the American Civil War in a cloth bag inside an iron box two feet below the surface.

1860-O Half Dollar Die Linkage Diagram




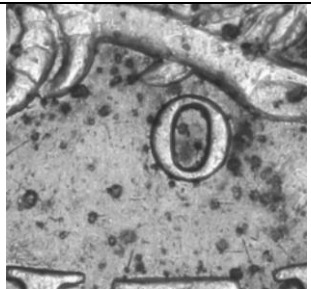





1860-O Obverse and Reverse die identification keys		Lump on vertical shield line D2	“Weird vertical stripes”, jumbled vertical shield lines	Lowest mintmark	Die cracks around the entire circumference	“Eagle Laying Egg” Mintmark	Mintmark repunched slightly	Weak eagle’s feathers adjacent to shield’s upper left
		A	B	C	D	E	F	G
		Type 1 Hub				Type 2 Hub		
Die line thru shield into Liberty’s lap	1	WB-1	WB-2					
Radial die crack from rim thru star 9	2		WB-3	WB-4	WB-5			
Small lump on Liberty’s stomach	3				WB-6	WB-7		
High Date	4					WB-8		
Small die line in the recessed area of the shield above the (LIBERT)Y	5						WB-9	
Small lump on the lower left outside edge of the shield	6						WB-10	WB-11
No prominent die characteristics	7							WB-12

1860-O date grid quick reference table

Obverse die date grid	Die Marriage
L5.5, .020”	WB-1
L5.5, .024”	WB-10
L5.5, .024”	WB-2
M1 , .023”	WB-11
M1.5, .020”	WB-3
M1.5, .021”	WB-5
M1.5, .022”	WB-12
M1.5, .022”	WB-4
M2 , .018”	WB-8
M2 , .024”	WB-6
M2 , .026”	WB-9
M2.5, .026”	WB-7

1860-O Half Dollar Mintmark Positions

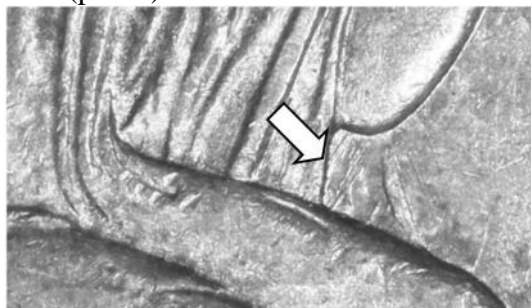
<p>Type 1 Reverse Hub</p>	 <p>Reverse A, WB-1</p>	 <p>Reverse B, WB-2, 3</p>	 <p>Reverse C, WB-4</p>	
<p>Type 2 Reverse Hub</p>	 <p>Reverse D, WB-5, 6</p>	 <p>Reverse E, WB-7, 8</p>	 <p>Reverse F, WB-9, 10</p>	
		 <p>Reverse G, WB-11, 12</p>		

1860-O WB-1

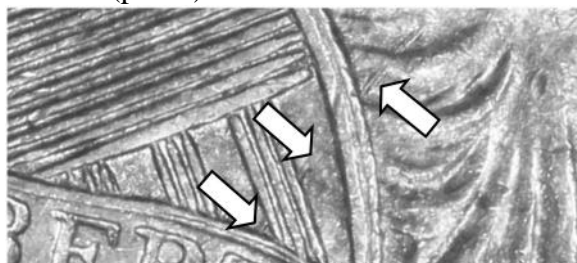
Obverse 1



- Date (photo)



- EDS only: many diagonal (SW to NE) die lines in the drapery below Liberty's right elbow (photo)



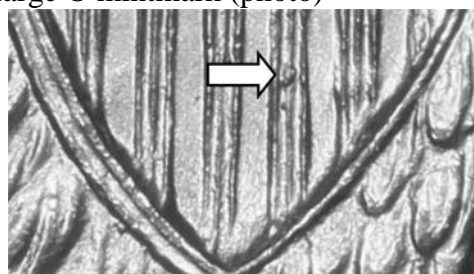
- All die states: diagonal (SW to NE) die line thru shield's right into Liberty's lap (photo); this die line is weak on LDS coins.
- MDS-LDS: heavy clash lines on Liberty's lap and in the drapery under her right elbow
- LDS only: die rust on Liberty's lower right skirt and right leg

Reverse A

Type 1 Reverse Hub



- Large O mintmark (photo)



- Lump on vertical shield line D2 (photo)
- Broken/split upper vertical shield line F2 (see 1859-O WB-16 plate coin)



- LDS only: radial die crack from K-6 thru D(OL) to stem into arrow feathers (photo)
- This reverse die is transitional with 1859-O (Reverse M).

This is the first use of this obverse die and only use of this reverse die in 1860.

Date grid: L5.5, .020"	140 reeds	Typical diameter = 1.202"	Rarity - 2
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full to weak; Reverse - Full	
Grade of coin depicted: XF40, AU50, and MS62		Coins from the Bill Bugert and Randy Wiley Collections	
Cross reference: WB-101.		Version 1.325	

**1860-O
WB-1**



Obverse 1



Reverse A (enhanced die cracks in photo at right)

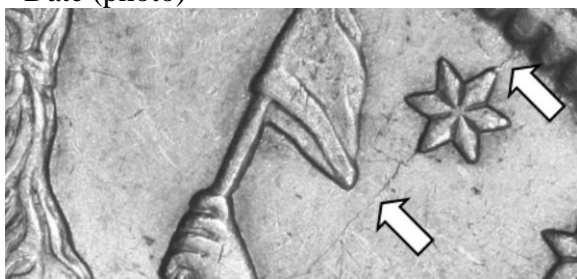
1860-O

WB-2, Weird Vertical Stripes

Obverse 1



- Date (photo)



- All examples seen: radial die crack from rim thru star 9 into field below cap (photo)
- Very weak diagonal (SW to NE) die line thru shield's right into Liberty's lap (see WB-1)



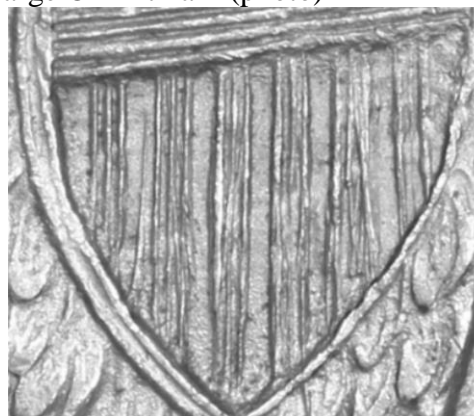
- Heavy clash lines on Liberty's lap and in the drapery under her right elbow
- Die rust on Liberty's lower right skirt and right leg

Reverse B

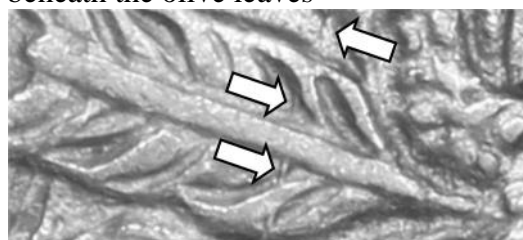
Type 1 Reverse Hub



- Large O mintmark (photo)



- Jumbled vertical shield lines, hence the "weird vertical stripes" nickname (photo). The vertical shield lines were likely re-engraved poorly.
- Very rusty die - rough surfaces in the shield's upper right, eagle's right wing, and beneath the olive leaves



- Vertical die line from lower shield thru the arrow feathers (feathers photo above)
- Clash in shield's lower right

This is the second use of this obverse die and first use of this reverse die.

Date grid: L5.5, .024"	140 reeds	Typical diameter = 1.203"	Rarity - 4
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Drapery die state: Partial	Foot support: Partial	Dentils: Obverse - Weak; Reverse - Full
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Grade of coin depicted: AU55	Coin from the Randy Wiley Collection
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Cross reference: WB-102.	Version 1.325
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1860-O

WB-2, Weird Vertical Stripes



Obverse 1 (enhanced die cracks in photo at right)



Reverse B (enhanced die cracks in photo at right)

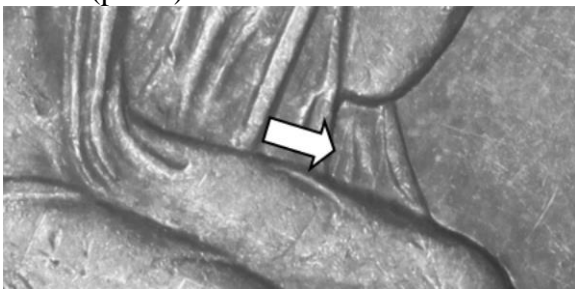
1860-O

WB-3, Weird Vertical Stripes

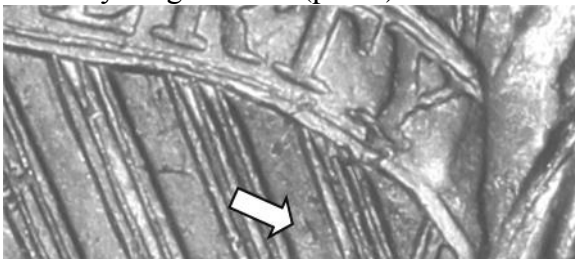
Obverse 2



- Date (photo)



- EDS: diagonal die line in the drapery below Liberty's right elbow (photo)



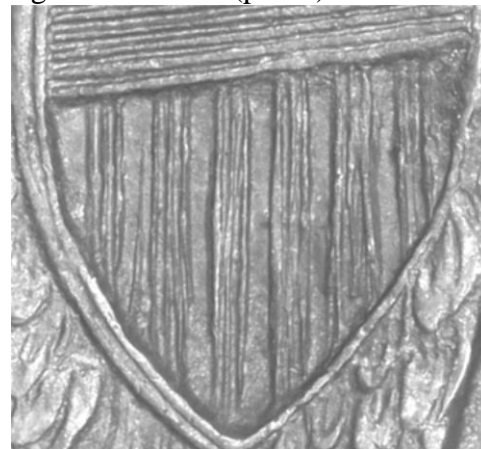
- Small lump in the lower shield (photo)

Reverse B

Type 1 Reverse Hub



- Large O mintmark (photo)



- Jumbled vertical shield lines, hence the "weird vertical stripes" nickname (photo). The vertical shield lines were likely re-engraved poorly.
- Very rusty die - rough surfaces in the shield's upper right, eagle's right wing, and beneath the olive leaves
- Vertical die line from lower shield thru the arrow feathers (see WB-2)
- All examples seen: radial die crack from K-7 between olive leaves #1 - #2
- Clash in shield's lower right

This is the first use of this obverse die and second use of this reverse die.

Date grid: M1.5, .020"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Bill Bugert Collection	
Cross reference: WB-102.		Version 1.325	

1860-O
WB-3, Weird Vertical Stripes



Obverse 2



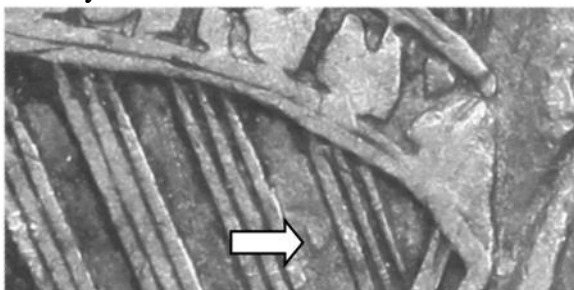
Reverse B (enhanced die cracks in photo at right)

1860-O WB-4

Obverse 2



- Date (photo)
- EDS only: the diagonal die line in the drapery below Liberty's right elbow seen in the previous use of this die (WB-3) is now barely visible.



- Small lump in the lower shield (photo); strong on EDS coins (shown above), much weaker on LDS



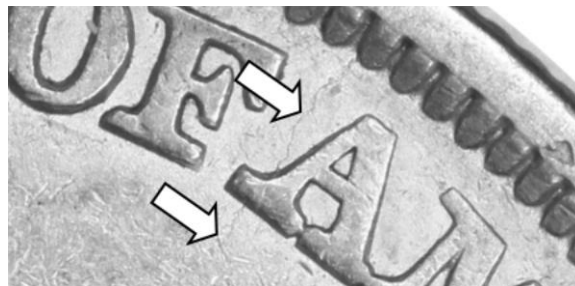
- LDS only: radial die crack from dentil along star 8 into field (photo)

Reverse C

Type 1 Reverse Hub



- Large O mintmark (photo) with the lowest mintmark position of the Type 1 reverse hub dies (compare Reverse A, B, C mintmark positions)
- No prominent die characteristics to identify this die



- LDS only: radial die crack from dentil between (O)F A(MERICA) thru the lower left serif of the A into field (photo). Another die crack from the upper right serif of the (HAL)F along the right side of the mintmark but this die crack is difficult to see without high powered magnification on high grade coins.

This is the second use of this obverse die and only use of this reverse die.

Date grid: M1.5, .022"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: NGC XF40 LDS: AU50		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101.		Version 1.325	

**1860-O
WB-4**



Obverse 2 (enhanced die cracks in photo at right)



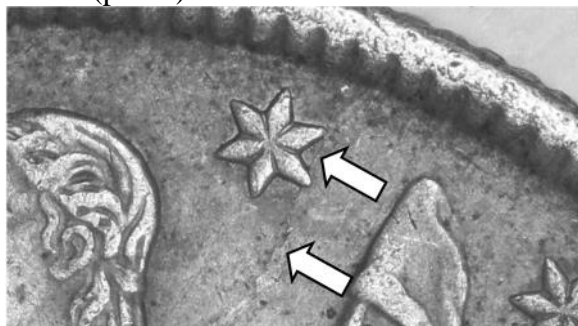
Reverse C (enhanced die cracks in photo at right)

1860-O WB-5

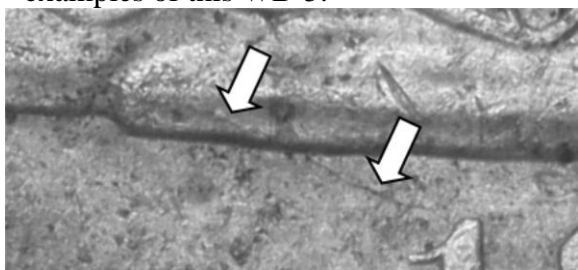
Obverse 2



- Date (photo)



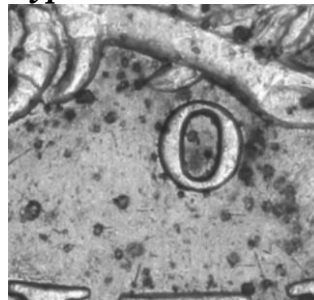
- All die states: radial die crack from dentil along star 8 into field (photo). This die crack first appears on the previous use of this die (WB-4) and will therefore appear on all examples of this WB-5.



- LDS: die crack from the top of the 1(860) into the rock support (photo)
- Very weak dentils notably from K-9 to K-11

Reverse D

Type 2 Reverse Hub



- Large O mintmark (photo) tilted to the right
- All examples seen: die cracks around the entire circumference on the outer edges of the legend and denomination (see enhanced die cracks diagram on next page)
- No prominent die characteristics other than the mintmark and die cracks noted above to identify this die

This is the third use of this obverse die and first use of this reverse die.

Date grid: M1.5, .021"	140 reeds	Typical diameter = 1.196"	Rarity - 3
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: AU55		Coin from the Bill Bugert Collection	
Cross reference: WB-103.		Version 1.325	

**1860-O
WB-5**



Obverse 2 (enhanced die cracks in photo at right)



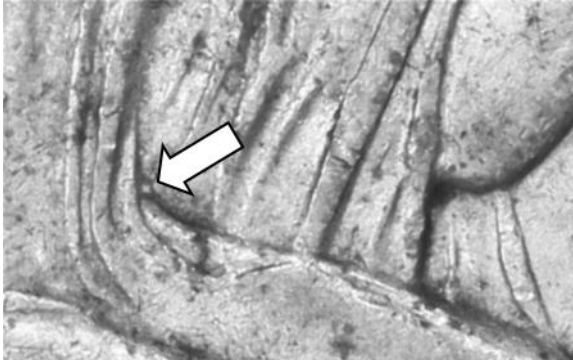
Reverse D (enhanced die cracks in photo at right)

1860-O WB-6

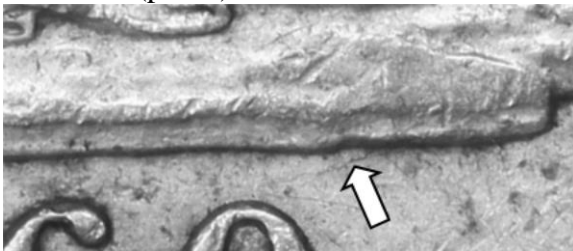
Obverse 3



- Date (photo)



- Small lump in the recessed area on Liberty's stomach (photo)



- LDS: die crack from above the (186)0 to the rock support (photo)

Reverse D

Type 2 Reverse Hub



- Large O mintmark (photo) tilted to the right
- All examples seen: die cracks around the entire circumference on the outer edges of the legend and denomination (see enhanced die cracks diagram on next page)
- No prominent die characteristics other than the mintmark and die cracks noted above to identify this die

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .024"	140 reeds	Typical diameter = 1.200"	Rarity - 3
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Drapery die state: Full to Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full
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Grade of coin depicted: XF45	Coin from the Bill Bugert Collection
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Cross reference: WB-103.	Version 1.325
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**1860-O
WB-6**



Obverse 3 (enhanced die cracks in photo at right)



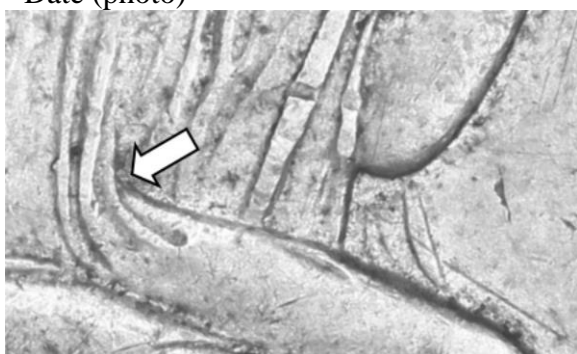
Reverse D (enhanced die cracks in photo at right)

1860-O WB-7, Eagle Laying Egg

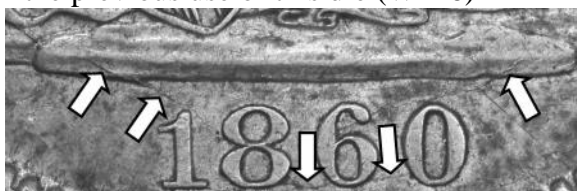
Obverse 3



- Date (photo)



- Small lump in the recessed area on Liberty's stomach (photo) now much weaker than on the previous use of this die (WB-6)



- All examples seen: die cracks along the base of the digits 1860; another from the upper loop of the 6 above the 0 into the rock support; and another from the 8 along the top serif of the 1 into the rock support and ribbon (photo)

Reverse E

Type 2 Reverse Hub



- Large O mintmark (photo). The mintmark is located high in the croch formed by the olive branch and feather tip; hence, the nickname "eagle laying egg" penned by the late Charlton "Swampy" Meyer. This die is the only New Orleans mintmark position so.



- All examples seen: weak eagle's feathers adjacent to shield's upper left (photo)
- LDS: die cracks on the letters of the legend and denomination from K-1 to K-6 (see enhanced die cracks diagram on next page)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2.5, .026"	140 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU53		Coin from the Bill Bugert Collection	
Cross reference: WB-104.		Version 1.325	

1860-O
WB-7, Eagle Laying Egg



Obverse 3 (enhanced die cracks in photo at right)



Reverse E (enhanced die cracks in photo at right)

1860-O WB-8, Eagle Laying Egg

Obverse 4



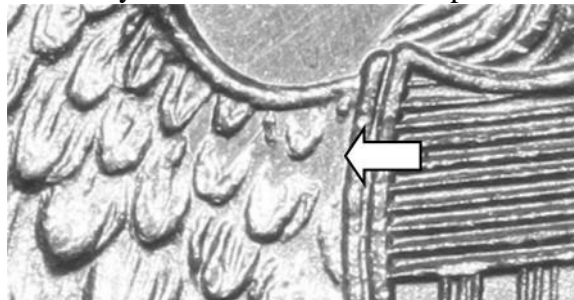
- Date (photo)
- No prominent die characteristics other than the high date position identify this die. This obverse die shares the eagle laying egg reverse with WB-7 but is easily distinguished by the date position when compared to WB-7. The date on this die is slightly more to the left and higher than on WB-7.

Reverse E

Type 2 Reverse Hub



- Large O mintmark (photo). The mintmark is located high in the crotch formed by the olive branch and feather tip; hence, the nickname “eagle laying egg” penned by the late Charlton “Swampy” Meyer. This die is the only New Orleans mintmark position so.



- Weak eagle's feathers adjacent to shield's upper left (photo)
- All examples: die cracks on the letters of the legend and denomination from K-1 to K-6 (see enhanced die cracks diagram on next page)

This is the only use of this obverse die and second use of this reverse die.

Date grid: M2, .018”	140 reeds	Typical diameter = 1.200”	Rarity - 4
Drapery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS64		Coin from the Randy Wiley Collection	
Cross reference: WB-104.		Version 1.325	

1860-O
WB-8, Eagle Laying Egg



Obverse 4



Reverse E (enhanced die cracks in photo at right)

1860-O

WB-9, Repunched Mintmark

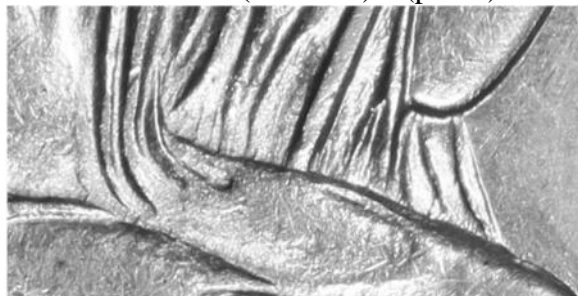
Obverse 5



- Date (photo)



- Small die line in the recessed area of the shield above the (LIBERT)Y (photo)



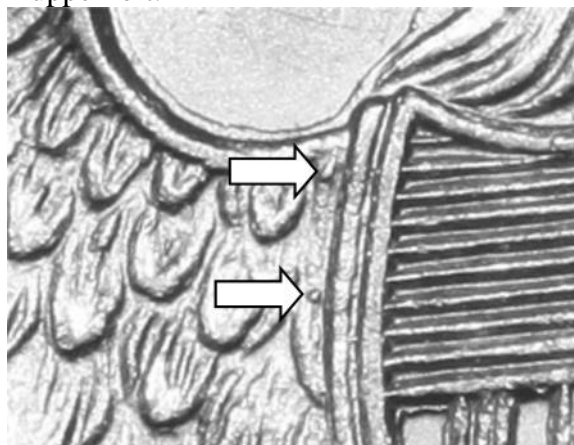
- All examples seen: die clash in Liberty's lap and below her right elbow (photo)

Reverse F

Type 2 Reverse Hub



- Large O mintmark repunched slightly northwest (photos). The repunching is visible only within the mintmark's inside upper left.



- Two small lumps along the upper left outside corner of the shield (photo)
- All examples seen: die cracks along the top of letters (STA)TES and (A)MERICA

This is the only use of this obverse die and first use of this reverse die.

Date grid: M2, .026"	140 reeds	Typical diameter = 1.200"	Rarity - 3
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: MS64		Coin from the Randy Wiley Collection	
Cross reference: WB-105.		Version 1.325	

1860-O

WB-9, Repunched Mintmark



Obverse 5 (enhanced die cracks in photo at right)



Reverse F (enhanced die cracks in photo at right)

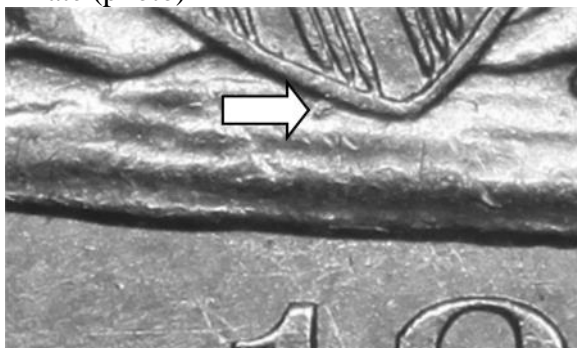
1860-O

WB-10, Repunched Mintmark

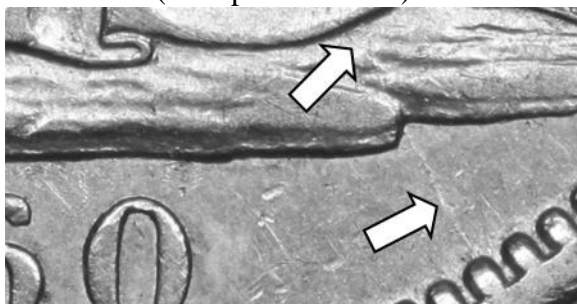
Obverse 6



- Date (photo)



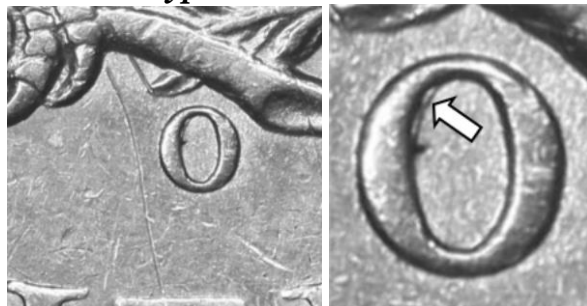
- Small lump on the lower left outside edge of the shield (both photos above)



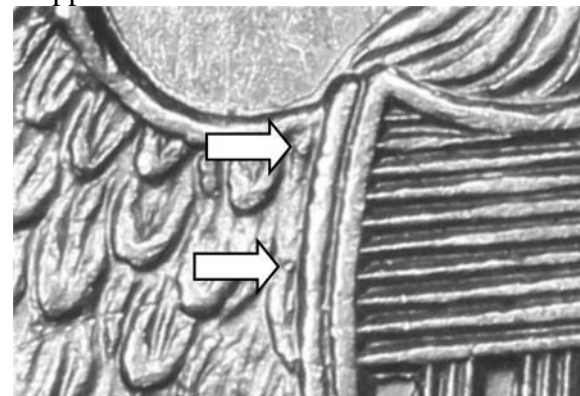
- All examples seen: radial die crack from dentil at K-5 into rock support and Liberty's skirt (photo)

Reverse F

Type 2 Reverse Hub



- Large O mintmark repunched slightly northwest (photos). The repunching is visible only within the mintmark's inside upper left.



- Two small lumps along the upper left outside corner of the shield (photo)
- All die states: die cracks along the top of letters (STA)TES and (A)MERICA

This is the first use of this obverse die and second use of this reverse die.

Date grid: L5.5, .024"	140 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-105.		Version 1.325	

1860-O
WB-10, Repunched Mintmark



Obverse 6 (enhanced die cracks in photo at right)



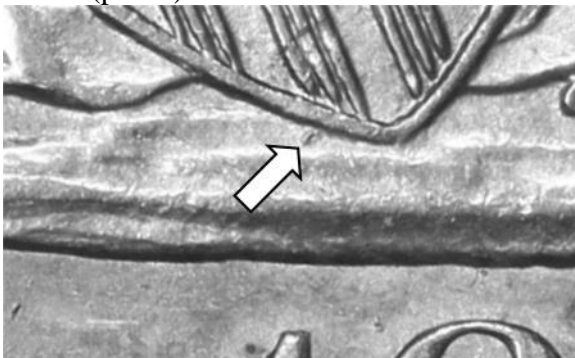
Reverse F (enhanced die cracks in photo at right)

1860-O WB-11

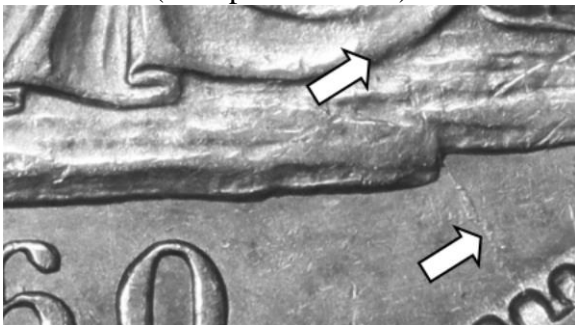
Obverse 6



- Date (photo)



- Small lump on the lower left outside edge of the shield (both photos above)



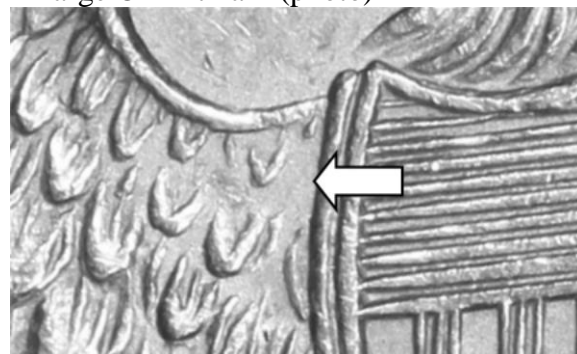
- All die states: radial die crack from dentil at K-5 into rock support and Liberty's skirt (photo)

Reverse G

Type 2 Reverse Hub



- Large O mintmark (photo)



- Weak eagle's feathers adjacent to shield's upper left (photo)



- Die rust die under olive leaves (photo)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M1, .023"	140 reeds	Typical diameter = 1.198"	Rarity - 3
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU50		Coin from the Bill Bugert Collection	
Cross reference: WB-103.		Version 1.325	

**1860-O
WB-11**



Obverse 6 (enhanced die cracks in photo at right)



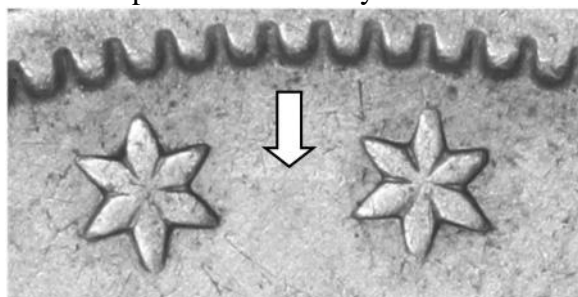
Reverse G

1860-O WB-12

Obverse 7



- Date (photo)
- No prominent die characteristics other than the date position to identify this die



- LDS only: weak die crack between stars 12-13 (photo)

Reverse G

Type 2 Reverse Hub



- Large O mintmark (photo)



- Weak eagle's feathers adjacent to shield's upper left (photo)
- The die rust die seen under olive leaves on the previous use of this die is now very weak.

This is the only use of this obverse die and second use of this reverse die.

Date grid: M1.5, .022"	140 reeds	Typical diameter = 1.199"	Rarity - 3
Dravery die state: Partial	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS - AU58 LDS - VF35		EDS coin from the Randy Wiley Collection LDS coin from the Bill Bugert Collection	
Cross reference: WB-103.		Version 1.325	

**1860-O
WB-12**



Obverse 7



Reverse G (enhanced die cracks in photo at right)

1861-O

For many good reasons, this date is one of the most popular in the Liberty Seated half dollar series. Even before Randy Wiley published his stunning award winning research efforts for this date², it was historically popular for the three minting authorities; i.e., the United States of America, the State of Louisiana, and the Confederate States of America. With his articles, he exponentially increased interest and demand for coins of this date. Until a few years ago, with the exception of the 1861-O CSA die crack, there was no absolute method of determining approximately when and under whose authority an 1861-O half dollar was minted, an important question to many.

Essentially, Randy researched and armed himself with three vital pieces of information, linked them to the three minting authorities, and produced a very convincing argument for 1861-O half dollars. Randy's analysis is very lengthy and thorough and I will not duplicate it here; I will summarize his findings and attempt to simplify the die identification process.

1. With access to two large hoards of 1861-O half dollars, Randy accurately determined an emission sequence for all the 1861-O die marriages (unlike most other dates in the Liberty Seated half dollar series, all dies are linked together and this information is critical to the analysis).
2. From knowledge of the other dates of this period, he suggested an average die usage.
3. He exploited the known mintage figures by minting authority and applied them to the die marriages.

This information threw open the door for interest in this date not only numismatically but also historically as fragments of the American Civil War.

Fifteen die marriages are known as depicted in the tables below.

Mintage	Number of Dies	Number of Marriages	Obverse Dies	Reverse Dies	Reed Counts Known
2,532,633	Requested	-	Unknown	Unknown	1 (140)
	Shipped	-	Unknown	Unknown	
	Known	15	6	6*	

*= This figure does not include the CSA reverse die.

Rarity of issues by minting authority. Many collectors opt to collect an 1861-O from each of the three minting authorities. Collectors routinely inquire as to which of the three is the scarcest. Contrary to what many think, the U.S. government's issues are by far the scarcest / rarest while the CSA issues are the most common. This fact is true not only from a perspective of the number of die marriages issued for each authority but also for the rarity of some of the die marriages; one of the rarest die marriages is a U.S. issue (W-1). The table at right depicts the total number of die marriages by authority. Details on each of the die marriages are, of course, included on the following pages.

Minting Authority	Die Marriages	
	Total	Numbers
U.S. (Union)	2	W-1, 2
State of Louisiana	6	W-3 thru 8
CSA (Confederate)	7	W-9 thru 15

² Wiley, Randy. "Die Marriages of 1861-O Half Dollars" Gobrecht Journal Issue 94, November 2005: 3-28

Wiley, Randy. "Coining Authority and Rarity for Die Marriages of 1861-O Half Dollars" Gobrecht Journal Issue 97, November 2006: 34-49

Rarity of Die Marriages. In his articles, Randy included a subjective descriptive rarity of all the die marriages and some die states; I used numeric analyses to assign a numeric rarity rating to each. The table below summarizes both findings.

W-#	Wiley		WB-# Cross Reference	Bugert R - Value
	Descriptive Rarity	Rarity Rank		
01	Rare	3	101	R-6
02	Rare	2	101	R-5
03	Average	8	101	R-2
04	Common	13	101	R-2
05	Very scarce	5	101	R-4
06	Scarce	7	101	R-3
07	Common	15	101	R-2
08	Above average	12	101	R-2
09	Above average	11	101	R-2
10	Very scarce	4	101	R-4
11	Average	9	102	R-3
12	4 Known	1	-	NC-1
13	Common	14	103	R-2
14	Very scarce	6	103 / 104	R-4
15	Average	10	104	R-2

It is important to note that these rarity ratings do not include those NGC encapsulated 1861-O half dollars with salt-water effect from the *SS Republic* hoard. I do not include those since the die marriage populations are not publicly known and may vary considerably from educated guesses.

Wiley (W-#) attribution numbers. For this date, I digressed from the normal die marriage attribution nomenclature (i.e., WB-#) and instead used Randy Wiley's die marriage nomenclature (W-#). I do this to honor Randy and his efforts and to maintain consistency with his published information and that already in use.

Reverse hub for 1861-O. All 1861-O half dollars are from a type 2 reverse hub (major characteristics in image at right). Over the years, 1861-O halves from a type 1 hub were periodically reported (and even listed in Breen) but Randy and I have never seen one. If one does exist, it is likely extreme rare. A complete description of these two hubs is contained earlier in this reference; for brevity, the main characteristics of the type 2 hub (lump on the eagle's left leg and long base of the (HA)L(F) are depicted in the image at the right.



Identification of dies. Collectors / dealers will often hand me an 1861-O and ask, according to Randy's articles, to identify the die marriage. Even with his excellent identification information, some if not many 1861-Os are very difficult to distinguish, impossible if the coin is low grade. The date and mintmark position for all the dies are nearly identical and relying on minuscule diagnostics is difficult for some die marriages. Most dies have distinct but non-subtle diagnostics that I hope to capitalize on for reliable use in this reference.

Halos. Many 1860's dates in the Liberty Seated half dollar series, including 1861-O, have an outline, "halo" as sometimes called, around the main reverse device (i.e., eagle). This feature, depicted in the image below, is not die doubling as it is often mistaken. Rather, this shelf-like effect is a remnant of the design elements that were punched into the master die. These halos were eventually transferred into the individual working dies then onto the individual coins. This haloling fades with die state, wear, and maintenance of the individual dies. Three 1861-O reverse dies have prominent haloling: reverse B, reverse D, and reverse E.

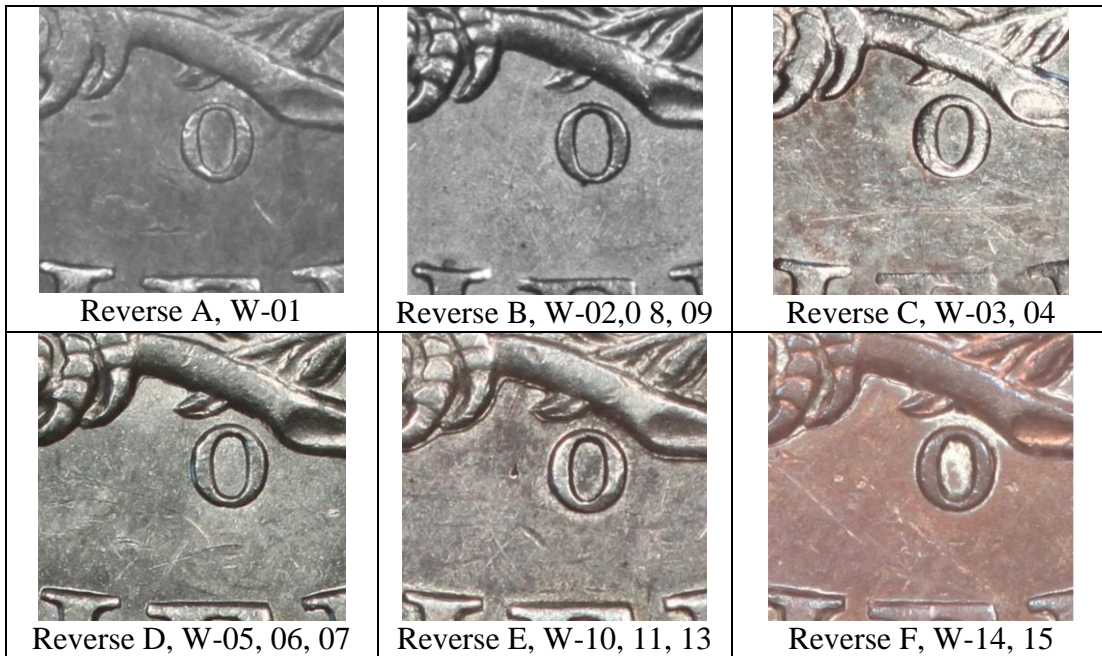


1861-O date grid quick reference table

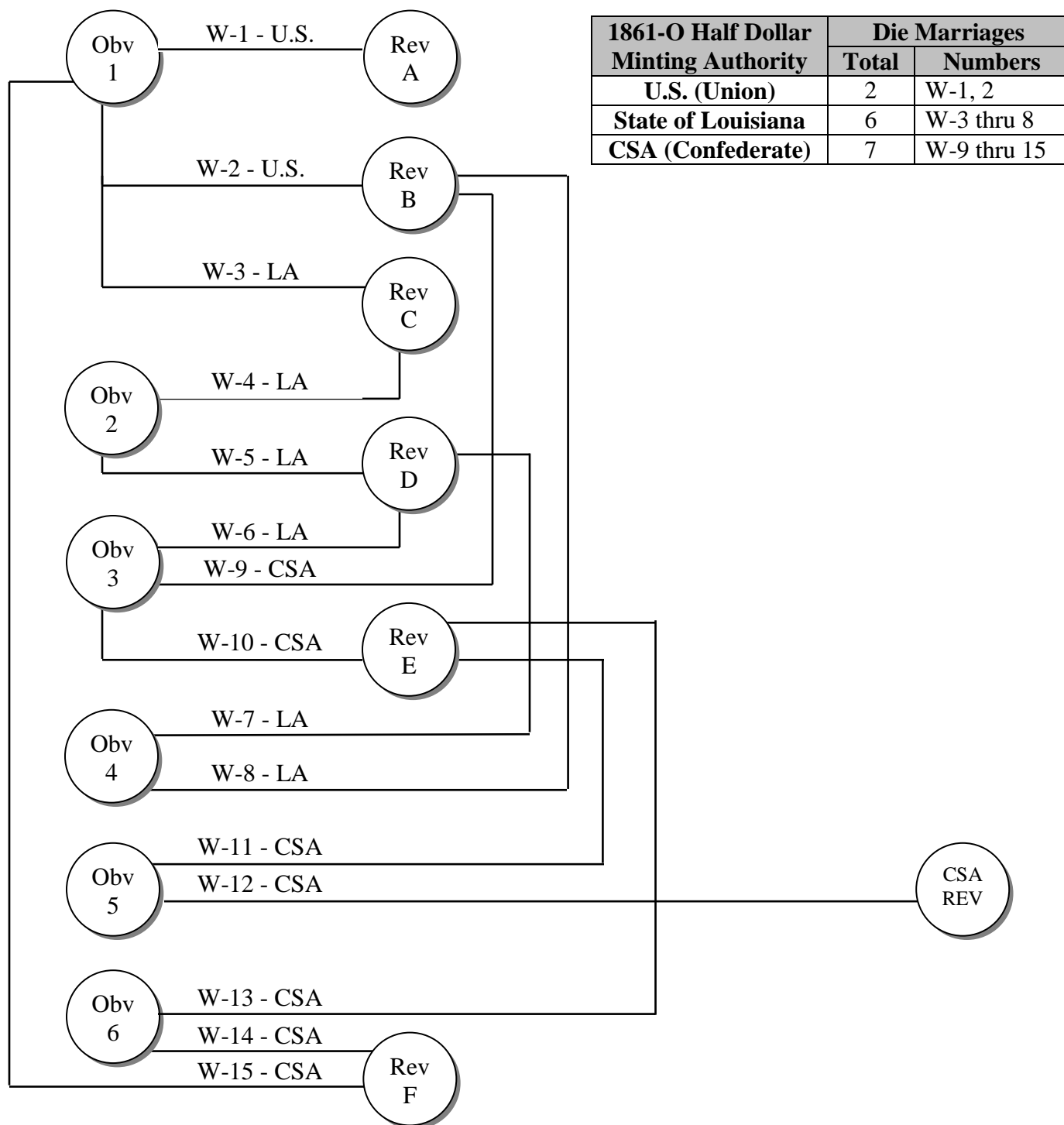
Obverse die date grid	Die Marriage
M1 , .026"	W-13
M1 , .028"	W-14
M1.5, .026"	W-07
M1.5, .028"	W-11
M1.5, .028"	W-04
M1.5, .028"	W-08
M1.5, .030"	W-01
M1.5, .030"	W-10
M1.5, .030"	W-12
M1.5, .030"	W-05
M2 , .028"	W-06
M2 , .028"	W-09
M2 , .029"	W-02
M2 , .032"	W-15
M2.5, .030"	W-03

1861-O Obverse and Reverse die identification keys		Lapped tail feathers	Die crack thru (AMER)CA	Lump on middle arrowhead	Halo around eagle	Halo around eagle Die crack along denomination	Speared Olive Bud	CSA Reverse
		A	B	C	D	E	F	
Tine on 1	1	W-01	W-02	W-03			W-15	
Arching die crack	2			W-04	W-05			
Lump by clasp	3		W-09		W-06	W-10		
Date slants upward	4		W-08		W-07			
CSA Die Crack	5					W-11		W-12
Die Crack Bisected Date	6					W-13	W-14	

1861-O Half Dollar Mintmark Positions


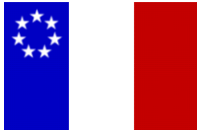



1861-O Half Dollar Die Linkage Diagram



1861-O Half Dollar Minting Authority	Die Marriages	
	Total	Numbers
U.S. (Union)	2	W-1, 2
State of Louisiana	6	W-3 thru 8
CSA (Confederate)	7	W-9 thru 15

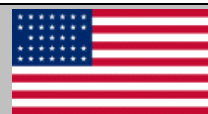
1861-O Half Dollar Minting Authorities

Die Marriage	Die Combination	Minting Authority	Authority's Symbol*	Approximate Date / Number** Minted
W-01	1A	United States of America. (Union)		January 1861 330,000
W-02	1B			
W-03	1C	State of Louisiana (LA)		February March 1861 1,240,000
W-04	2C			
W-05	2D			
W-06	3D			
W-07	4D			
W-08	4B			
W-09	3B	Confederate States of America (CSA)		April 1861 962,633
W-10	3E			
W-11	5E			
W-12	5CSA			
W-13	6E			
W-14	6F			
W-15	1F			

*I chose to represent the minting authority for each die marriage by the authority's contemporary flag. These flags will be on the upper right of each die marriage.

**These mintage figures vary considerably from Randy Wiley's analysis. See his articles for an in-depth analysis of die marriage estimates.

1861-O W-01, USA Issue



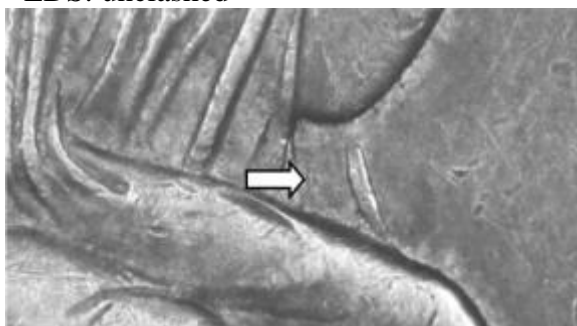
Obverse 1



- Date slants up slightly (photo). Bold line in the field at the upper left above the serif of the 1 (photos above and below).



- EDS: unclashed

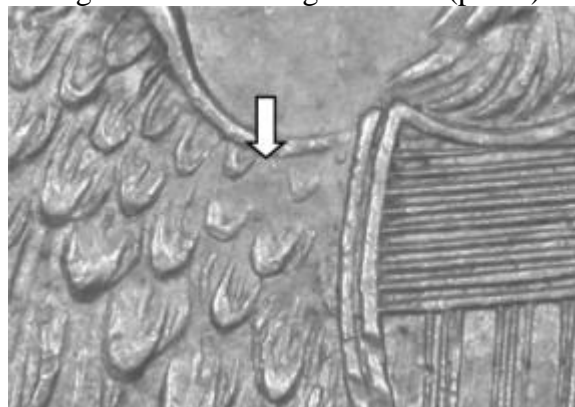


- LDS: clash in drapery below Liberty's elbow (photo)

Reverse A

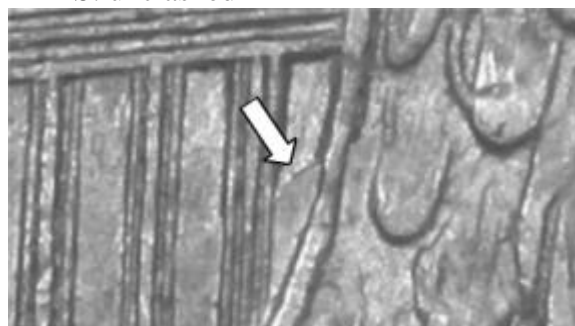


- Large O mintmark high and left (photo)



- Heavily lapped eagle's wing feathers adjacent to the upper left of the shield (photo). Note: this feature alone does not identify this die marriage; LDS W-04 and LDS W-09 also have weak feathers.

- EDS: unclashed



- LDS: clash in shield's lower right (photo)

This is the first use of this obverse die and only use of this reverse die.

Date grid: M1.5, .030"	140 reeds	Typical diameter = 1.200"	EDS unclashed Rarity - 6 LDS clashed Rarity - 5
Drapery die state: Full to Partial	Foot support: Full	Dentils: Obverse - Full to weak; Reverse - Full	
Grade of coin depicted: PCGS AU50		Coin from the Bill Bugert Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

1861-O
W-01, USA Issue



Obverse 1

Reverse A

1861-O W-02, USA Issue



Obverse 1



- Date slants up slightly (photo). The tine to the upper left seen on the previous use of this die (W-01) is no longer visible.
- Clash in drapery below Liberty's elbow

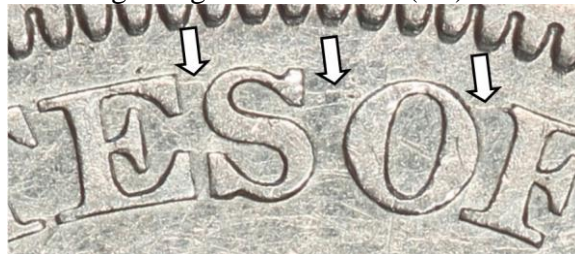
Reverse B



- Large O mintmark high and centered in crotch (photo)



- MDS-LDS: weak die cracks thru (AME)RICA (photo), along the top of letters (STA)TES OF (photo below), and just starting along the base of HA(LF)



- Unclashed

This is the second use of this obverse die and first use of this reverse die.

Date grid: M2, .029"	140 reeds	Typical diameter = 1.201"	Rarity - 5
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-02, USA Issue**



Obverse 1



Reverse B (enhanced die cracks in photo at right)

1861-O W-03, LA Issue



Obverse 1

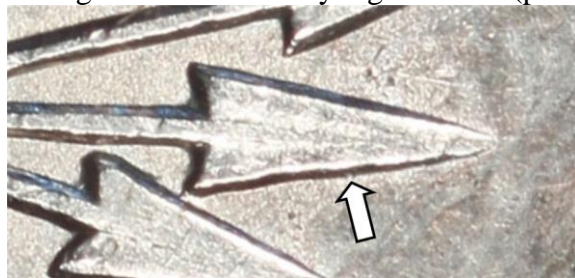


- Date slants up slightly (photo)
- Clash in drapery below Liberty's elbow; drapery is very weak.

Reverse C



- Large O mintmark very high and left (photo)



- Small lump on the lower side of the middle arrowhead (photo). This lump fades with die state such that it is only faintly visible on EDS coins.



- LDS only: die crack connects STA(TES) (photo)

This is the third use of this obverse die and first use of this reverse die.

Date grid: M2.5, .030"	140 reeds	Typical diameter = 1.202"	Rarity - 2
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: XF45 LDS: AU50		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-03, LA Issue**



Obverse 1



Reverse C

1861-O W-04, LA Issue



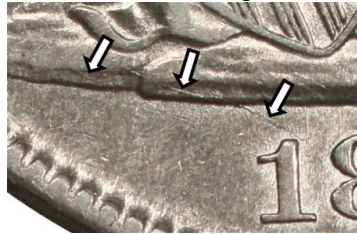
Obverse 2



- Date slants up slightly (photo). LDS: die crack along the base of the digits in the date.



- EDS only: small tine from the top left above the serif of the 1 (photo). Most examples of this die marriage do not have this tine.

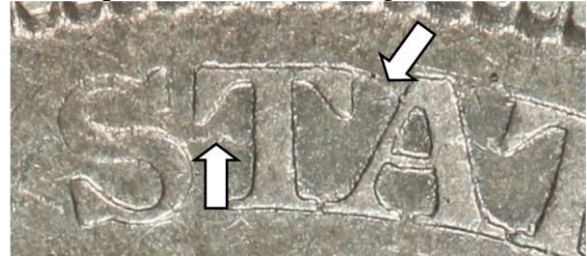


- LDS: outstretching die cracks from the date; the left from the top of the first 1 into the rock support and the right from the top of the second 1 into the rock support, Liberty's foot, and into the right field (photos)

Reverse C



- Large O mintmark very high and left (photo)
- The small lump on the lower side of the middle arrowhead seen on the previous use of this die (W-03) is visible only on VEDS examples of this die marriage.



- All die states: die crack connects STA(TES) (photo). Other die cracks along the top of portions of most the letters in the legend.
- LDS: outer edges of the letters of the denomination and legend are weak (see photo next page). The top serif of the (AMERI)C(A) is missing in VLDS. Lapped eagle's wing feathers adjacent to the upper left of the shield
- Clash in shield's lower right

This is the first use of this obverse die and second use of this reverse die.

A least one so-called proof was struck from these dies.

Date grid: M1.5, .028"	140 reeds	Typical diameter = 1.202"	Rarity - 2
Drapery die state: Partial	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Weak	
Grade of coin depicted: EDS: VF35 LDS: AU50		Coins from the Bill Bugert Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-04, LA Issue**



Obverse 2 (enhanced die cracks in photo at right)



Reverse C (enhanced die cracks in photo at right)

1861-O W-05, LA Issue



Obverse 2



- Date slants up slightly (photo). Note extremely weak dentils below date.

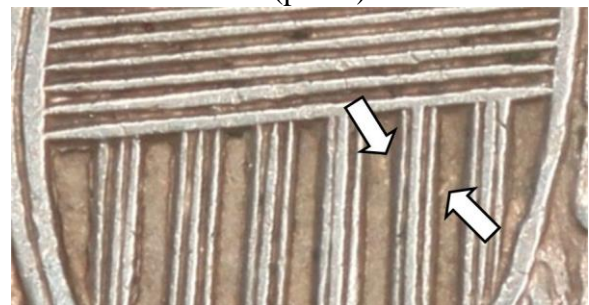


- Outstretching die cracks from the date; the left now from the top of the upper loop of the 8 into the rock support and the right from the top of the second 1 into the rock support, Liberty's foot, and into the right field (photos). These die crack are now very weak from erosion of die.

Reverse D



- Large O mintmark extremely high and centered in crotch (photo)



- Two small diagonal lines in the upper right recessed area of the vertical shield lines (photo)
- Very high grade coins only (AU55+): small lump on the eagle's left leg below the diagnostic hub lump
- Weak diagonal (NW to SE) lines inside the (UNITE)D and (A)M(ERICA)

This is the second use of this obverse die and first use of this reverse die.

Date grid: M1.5, .030"	140 reeds	Typical diameter = 1.201"	Rarity - 4
Drapery die state: Weak	Foot support: None	Dentils: Obverse – Very weak; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Bill Bugert Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-05, LA Issue**



Obverse 2 (enhanced die cracks in photo at right)



Reverse D

1861-O W-06, LA Issue



Obverse 3



- Date level (photo)



- Small lump to the upper right of Liberty's left shoulder clasp (photo)



- VEDS only: horizontal die lines in the rock support below Liberty's foot (photo)

Reverse D



- Large O mintmark extremely high and centered in crotch (photo)



- LDS only: diagonal die line from the dentils above and to the letter (AME)R(ICA) (photo)



- High grade coins (AU55+) only: die defect on the upright of the letter (AME)R(ICA) (photos above)

This is the first use of this obverse die and second use of this reverse die.

Date grid: M2, .028"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Draperies die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: EDS: XF40 LDS: MS63		EDS coins from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-06, LA Issue**



Obverse 3



Reverse D

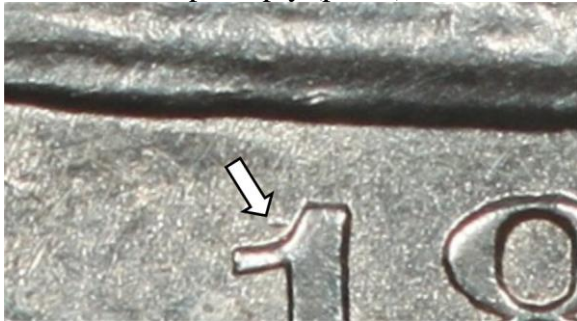
1861-O W-07, LA Issue



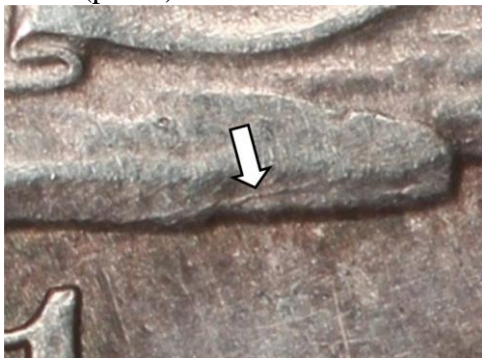
Obverse 4



- Date slants up steeply (photo)



- EDS only: small tine from the upper left serif of the 1 (photo)

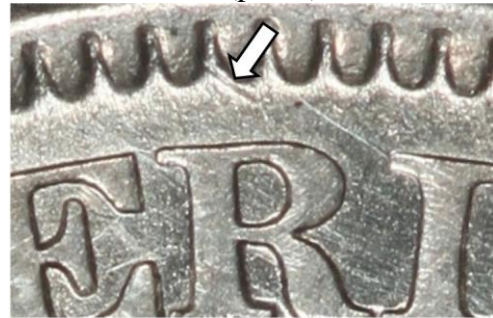


- LDS only: die crack along the rock support to the right of the second 1 (photo)

Reverse D



- Large O mintmark extremely high and centered in crotch (photo)



- EDS-MDS only: diagonal die line from the dentils above and to the letter (AME)R(ICA) (photo). This die line fades with die state.



- LDS only: die crack along top of letters RICA to the tip of the first arrowhead (photo)

This is the first use of this obverse die and third use of this reverse die.

Date grid: M1.5, .026"	140 reeds	Typical diameter = 1.202"	Rarity - 2
Drapery die state: Full to partial	Foot support: Full to weak	Dentils: Obverse - Full to weak Reverse - Full	
Grade of coin depicted: EDS: AU58 LDS: AU50		Coins from the Randy Wiley Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-07, LA Issue**



Obverse 4 (enhanced die cracks in photo at right)



Reverse D (enhanced die cracks in photo at right)

1861-O W-08, LA Issue



Obverse 4



- Date slants up steeply (photo). LDS: weak digits in the date and very weak dentils

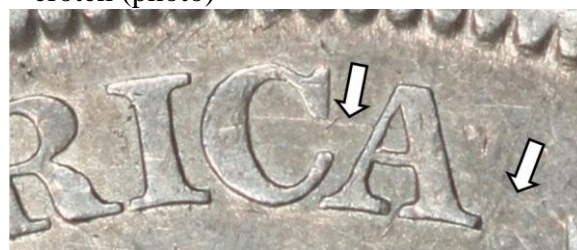


- LDS: weak die crack from the rock to star 1 (photo above left)
- All die states: die crack along the rock support to the right of the second 1 (photo above right)

Reverse B



- Large O mintmark high and centered in crotch (photo)



- All die states: die cracks thru (AME)RICA (photo) and along the top of letters (STA)TES OF (photo below)



- All die states: very heavy clash in shield's lower right (photo)

This is the second use of this obverse die and second use of this reverse die.

Date grid: M1.5, .028"	140 reeds	Typical diameter = 1.200"	Rarity - 2
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Drapery die state: Partial to none	Foot support: Very weak	Dentils: Obverse - Weak to very weak Reverse - Full to weak
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Grade of coin depicted: AU50	Coin from the Randy Wiley Collection
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Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.	Version 1.325
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**1861-O
W-08, LA Issue**



Obverse 4 (enhanced die cracks in photo at right)



Reverse B (enhanced die cracks in photo at right)

1861-O W-09, CSA Issue



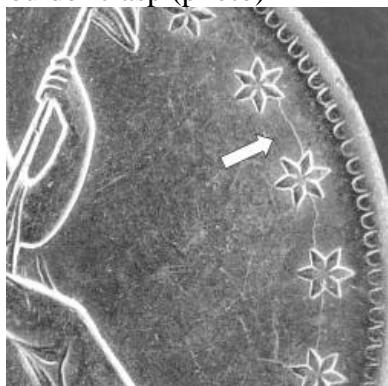
Obverse 3



- Date level (photo)



- Small lump to the upper right of Liberty's left shoulder clasp (photo)



- LDS: die crack connects stars 9-13 (photo). This die cracks starts from star 11 towards stars 10.

Reverse B



- Large O mintmark high and centered in crotch (photo)



- All die states: die cracks thru (AME)RICA (photo), along the top of letters (STA)TES OF (photo below), and along the base of letters HALF DOL into field below the arrowheads. This die cracked in the first use of this die so all examples of this die marriage will have these die cracks.



- LDS: weak feathers similar to W-01 (photo)
- Heavy clash in shield's lower right and weak/eroded dentils

This is the second use of this obverse die and third use of this reverse die.

Date grid: M2, .028"	140 reeds	Typical diameter = 1.200"	Rarity - 2
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full to weak; Reverse - Full	
Grade of coin depicted: EDS: PCGS AU58 LDS: MS60		EDS coin from the Bill Bugert Collection LDS coin from the Randy Wiley Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-09, CSA Issue**



Obverse 3



Reverse B (enhanced die cracks in photo at right)

1861-O W-10, CSA Issue



Obverse 3



- Date level (photo). Note weak dentils below date.



- Small lump to the upper right of Liberty's left shoulder clasp (photo)

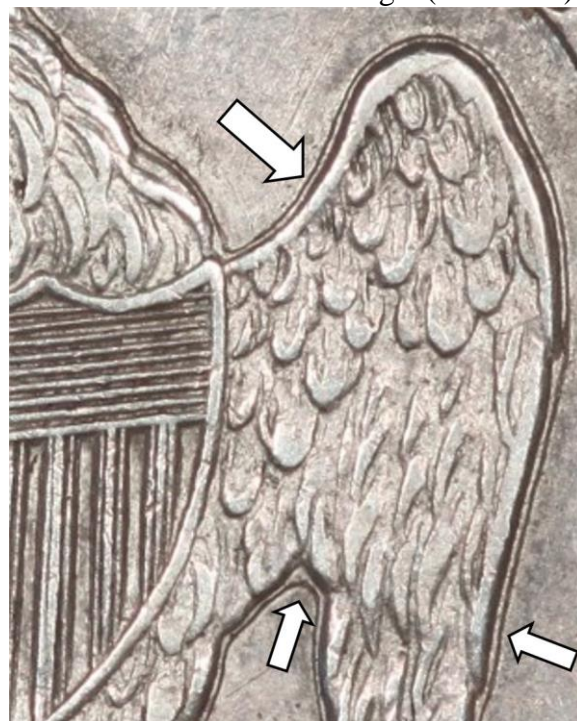


- All die states: die crack connects stars 9-13 (photo)

Reverse E



- Large O mintmark extremely high and left (photo)
- No die diagnostics found on this die other than the halo around the eagle (see below)



- Bold halo around the eagle (see notes in the introductory portion of this date) (photo)

This is the third use of this obverse die and first use of this reverse die.

Date grid: M1.5, .030"	140 reeds	Typical diameter = 1.200"	Rarity - 4
Drapery die state: Partial	Foot support: None	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: XF45		Coin from the Randy Wiley Collection	
Cross reference: WB-101 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

**1861-O
W-10, CSA Issue**



Obverse 3 (enhanced die cracks in photo at right)



Reverse E

1861-O W-11, CSA Die Crack



Obverse 5



- Date slants up steeply (photo)



- EDS only: tine in the field off the upper left of the serif of the first 1 (photo above left)
- M/LDS: strong die crack at the bridge of Liberty's nose (photo above right). This die crack runs from the dentil to the right of star 7 to the bridge of Liberty's nose out her chin to Liberty's shoulder.
- EDS: no die crack at bridge of Liberty's nose
- LDS only: die crack from rock support above (18)61 thru Liberty's foot into right field

Reverse E



- Large O mintmark extremely high and left (photo)
- No die diagnostics found on this die
- Bold halo around the eagle (see notes in the introductory portion of this date). This halo fades with die state but is still mostly visible on LDS coins.



- LDS only: weak die crack along the base of the letters HALF D(OL) in the denomination (photo). Another weaker die crack connects (UNITE)D S(TATES).

This is the first use of this obverse die and second use of this reverse die. In a later use of this obverse die, it is paired with the genuine Confederate reverse die (W-12). This die marriage is scarce, not rare but its' demand as a very popular variety merits a premium price.

Date grid: M1.5, .028"	140 reeds	Typical diameter = 1.202"	Rarity - 3
Drapery die state: Full to partial	Foot support: Full to weak	Dentils: Obverse - Full Reverse - Full	
Grade of coin depicted: VF35, AU50, and MS64	Coins from the Bill Bugert and Randy Wiley Collections		
Cross reference: WB-102 and <i>Gobrecht Journal</i> #94 and #97.	Version 1.325		

**1861-O
W-11, CSA Die Crack**



Obverse 5 (enhanced die crack in photo at right)



Reverse E

1861-O W-12, CSA Half Dollar



Obverse 5

- Date slants up steeply
- Strong die crack at the bridge of Liberty's nose. This die crack runs from the dentil to the right of star 7 to the bridge of Liberty's nose out her chin to Liberty's shoulder.



Reverse CSA

- No mintmark
- Unique die with the shield of the Confederacy in the center with seven stars and seven vertical stripes representing the seven original succeeding states, topped with a pole and cap, surrounded by a wreath of cotton and sugar cane branches, the legend CONFEDERATE STATES OF AMERICA and denomination HALF DOL.



This is the second use of this obverse die and only legitimate use of this reverse die. This die marriage is the genuine Confederate half dollar for which there are four known. The imaged coin is the CSA President Jefferson Davis' personal coin.

Images courtesy of Stack's, NY, NY.

Date grid: M1.5, .030"	Unknown reeds	Typical diameter = Unknown	Rarity - NC-1
Draperly die state: Full	Foot support: Partial	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: VF35		This genuine CSA half dollar was displayed at the 1995 Spring ANA Convention in Atlanta, GA. See additional information in this section.	
Cross reference: WB-not listed and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

1861-O

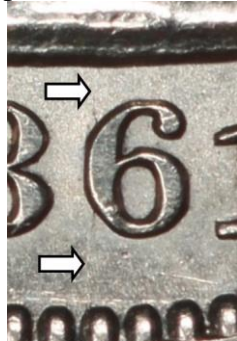
W-13, CSA Issue, Die Crack Bisected Date



Obverse 6



- Date level (photo)



- All die states: vertical die crack bisecting the date (photos above). All examples seen have this die crack even though it may be very weak on EDS coins.



- EDS only: many horizontal die lines along the dentils to the right of the date from K-4 to K-6 (photo)

Reverse E



- Large O mintmark extremely high and left (photo)
- The halo seen around the eagle (see notes in the introductory portion of this date) on the previous uses of this die (W-10 and W-11) is now only visible in a few areas.



- All die states: die crack along the base of the letters HALF DOL. and on LDS coins to the letters (AMERICA) (photo). Another die crack connects (UNITE)D S(TATES).
- VLDS: a radial die crack connects the dentil below (HALF) D(OL) to the die crack along the base of the denomination

This is the first use of this obverse die and third use of this reverse die.

Date grid: M1, .026"	140 reeds	Typical diameter = 1.202"	Rarity - 2
Drapery die state: Full	Foot support: Full	Dentils: Obverse - Full; Reverse - Full	
Grade of coin depicted: AU55 and MS63		Coins from the Randy Wiley Collection	
Cross reference: WB-103 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

1861-O

W-13, CSA Issue, Die Crack Bisected Date



Obverse 6 (enhanced die cracks in photo at right)



Reverse E (enhanced die cracks in photo at right)

1861-O



W-14 Die Crack Bisected Date/Sp peaked Olive Bud

Obverse 6



- Date level (photo)



- All die states: vertical die crack bisecting the date (photos above). Since the die crack appeared on the previous use of this die (W-13), all examples of this die marriage will have this die crack. Another die crack along the base of the digits (18)61 in the date.



- VLDS: die crack from the second 1 thru the rock support, Liberty's foot, and into the right field (photo). Another die crack from the rock to stars 1-2.

Reverse F



- Large O mintmark very high and centered in crotch (photo)



- Sp peaked olive bud; two parallel lines thru the upper olive bud (photo). This die characteristic is visible on coins of all grades.
- LDS: very weak die crack from the tip of the upper arrowhead to the middle of the (AMERIC)A and another along the base of letters DOL.

This is the second use of this obverse die and first use of this reverse die.

Date grid: M1, .028"	140 reeds	Typical diameter = 1.202"	Rarity - 4
Dravery die state: Partial	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: PCGS XF Details		Coin from the Bill Bugert Collection	
Cross reference: WB-103 obverse / WB-104 reverse and <i>Gobrecht Journal</i> # 94 and 97.		Version 1.325	

1861-O

W-14 Die Crack Bisected Date / Speared Olive Bud



Obverse 6 (enhanced die cracks in photo at right)



Reverse F

1861-O

W-15, CSA Issue, Speared Olive Bud



Obverse 1



- Date level (photo)



- MDS only: horizontal die line from the dentil off the tip of Liberty's big toe (photo)

Reverse F



- Large O mintmark very high and centered in crotch (photo)



- Speared olive bud; two parallel lines thru the upper olive bud (photo). This die characteristic is visible on coins of all grades.
- All die states: very weak die crack from the tip of the upper arrowhead to the middle of the (AMERIC)A and another along the base of letters DOL.
- LDS: die crack from (DO)L thru the arrowheads to (AMERIC)A

This is the fourth use of this obverse die and second use of this reverse die.

Date grid: M2, .032"	140 weak reeds	Typical diameter = 1.198"	Rarity - 2
Drapery die state: Partial to none	Foot support: Weak	Dentils: Obverse - Weak; Reverse - Full	
Grade of coin depicted: AU55 and MS62		Coins from the Randy Wiley Collection	
Cross reference: WB-104 and <i>Gobrecht Journal</i> #94 and #97.			Version 1.325

1861-O
W-15, CSA Issue, Speared Olive Bud



Obverse 1



Reverse F (enhanced die cracks in photo at right)

Confederate Die Usage

Over an eighteen year period, there were three uses for the Confederate reverse die. In order, it was used by the Confederacy as a reverse for the genuine Confederate half dollars, as a reverse for the Scott-Proskey Token, and finally as the reverse for the Confederate Restrike. Details of each of these are forthcoming but here is a summary of the three uses.

Use	Genuine Confederate Half Dollar	Scott-Proskey Token	Confederate Restrike
When struck	April 1861	1879	1879
Number struck	4	500	500
Planchet	Blank silver / copper	White metal	Genuine 1861-O half dollar
Minter	CSA	J.W. Scott / David Proskey	J.W. Scott / David Proskey

Genuine Confederate Half Dollars. There are only four genuine CSA half dollars known. The existence of these was not publically known until a March 11, 1879 *Philadelphia Record* account, fourteen years after the end of the Civil War. The history of these famous half dollars is widely known and extensively covered elsewhere but summarized here:

On January 31, 1861, the State of Louisiana seized the U.S. Branch Mint in New Orleans, LA and operated it until the last of February 1861 when it was turned over to the Confederacy. The Mint staff swore allegiance to the Confederacy and continued to operate it.

In April 1861, C.G. Memminger, the Secretary of the Confederate Treasury, requested designs for Confederate half dollar coins. Among those designs sent to him and finally approved was an obverse design the same as the regular issue and a reverse design having a shield with seven stars, representing the seven original States that succeeded from the Union. Above the shield was a pole with Liberty cap, and surrounded with a wreath of sugar cane and cotton in the bloom. The reverse legend read CONFEDERATE STATES OF AMERICA and the denomination HALF DOL. below the shield.

In relating the story of the CSA coins in 1879, Dr. B.F. Taylor, the Chief Coiner of the Confederate States of America, used the plural in describing the number of CSA dies. The dies were engraved by A.H.M. Patterson and prepared by Conrad Schmidt, the foreman of the coining room, both at New Orleans. Take note that the Confederate obverse die was one of the dies originally shipped to New Orleans from the Mint at Philadelphia and required no fabrication. Four Confederate half dollars were struck (all with a die crack on the obverse from the dentil near star 7 across the bridge of Liberty's nose under her chin) on a hand press (because the die would not fit the regular coining press) and distributed as follows:

1. Confederate government
2. Professor Biddle (Riddell), University of Louisiana
3. Dr. E. Ames, New Orleans
4. Dr. B.F. Taylor, Chief Coiner, CSA.

Supposedly, no additional half dollars were struck for circulation. The Confederate-operated New Orleans Branch Mint closed on April 30, 1861 when the Secretary of the Treasury suspended operations as all resources were compelled to support the war.

The following information contains the pedigree chains for these four half dollars.

Coin #1. Confederate government coin (VF35, weight 189 grains).

- C.G. Memminger, CSA Secretary of Treasury
- Jefferson Davis, CSA President
- Union soldiers who captured Jefferson Davis and looted his possessions
- Unknown private collections
- F. Mark Bream, Cashtown, PA
- Mark Bream, Cashtown, PA
- Mark Bream's sister in Ohio (for safekeeping)
- Theodore L. Schnur (coin shop owner in NYC)
- Paul Franklin, circa 1961?
- John J. Ford
- Offered at the 1995 Spring ANA Convention in Atlanta – did not sell
- Stack's John J. Ford Collection Sale 10/14/2003:325 at \$632,500
- Jon Hansen

Coin #2. Biddle (Riddell) coin (XF+, weight 190 grains)

- Professor Biddle (John Leonard Riddell), University of Louisiana
- Biddle (Riddell) Family
- Private New Orleans collector, circa 1960's
- James Cohen
- Lester Merkin
- Private collector

Coin #3. Ames coin (XF, weight 190.5 grains)

- Dr. Edward Y. Ames, New Orleans
- Dr. E. Ames' son
- Ames family
- Private collection in Roundout, NY, circa 1910
- Thomas L. Elder, circa 1912
- H.O. Granberg
- William H. Woodin
- Waldo Newcomer
- Col. E.H.R. Green
- Burdette G. Johnson
- Eric P. Newman, circa 1940.

Coin #4. Taylor coin (Choice Proof, weight 192.25 grains)

- Dr. Benjamin F. Taylor, MD, Chief Coiner, CSA
- E.B. Mason, Jr. (Ebenezer Locke Mason, Jr.?), Philadelphia, PA, circa 1879
- John Walter Scott, NYC. This coin was supposedly offered numerous times thru Thomas L. Elder (sale 3/11/1910: 552), David Proskey, Edgar H. Adams, in a flyer by Scott (for \$1,000), and possibly others but always bought back by Scott. Acting as Scott's agent, David Proskey finally sold it to Saltus.
- J. Sanford Saltus, NYC (circa 1918), \$3,000
- American Numismatic Society, NYC (presented July 30, 1918)

The Scott-Proskey Token. John W. Scott, a New York City coin dealer who acquired the genuine Confederate reverse die along with a genuine Confederate half dollar from Dr. B.F. Taylor in 1879, decided to profit from this purchase. Along with his associate David Proskey, another NYC numismatist-dealer, they planned to overstrike genuine 1861-O half dollars with the Confederate reverse die, thereby creating a novelty which would be sold to the public at a premium. After striking one or more on intact (i.e., non-smoothed reverses) 1861-O half dollar, Scott feared the die would break so he affixed a metal retaining ring and 500 soft white metal impressions were struck so as to offer something to subscribers in case the die was rendered unusable. The Scott-Proskey side of this token bore the legend 4 ORIGINALS STRUCK BY ORDER OF C. S.A. IN NEW ORLEANS 1861 ***** REV. SAME AS U.S. (FROM ORIGINAL DIE: SCOTT). Scott sold these for 50¢ each. The Dick Osburn Collection Scott-Proskey Token is depicted below.



These tokens are highly collectible and demand a significant premium when they appear on the numismatic market. All tokens I have seen are of Mint State grade and have a cracked obverse.

Note: This token is commonly called the "Scott Token." I believe it is more appropriately called the "Scott-Proskey Token" because David Proskey was a prominent NYC dealer who played a major role in minting these tokens. He deserves proper credit for his efforts.

The Confederate Restrikes. After striking the Scott-Proskey Tokens, they struck the Confederate Restrikes (although technically they are not “restrikes” because they were not struck by the Confederacy). According to Proskey (in a 1923 letter to ML Beistle relating the history of these restrikes), Scott purchased 500 United States half dollars of New Orleans mintage, had the reverses drilled off. The half dollars were placed face down on a blank of soft brass and then the reverse was impressed with a screw press. This helped keep the obverse from completely flattening. Proskey supervised the process so the workers could not retain souvenirs. Restrikes were struck in both coin and medal alignments; the medal alignment is very rare and possibly test strikes.

Scott initially offered these restrikes to the public for \$2 with a planned October 15, 1879 distribution date, but, with an ample supply thereafter, gradually raised the price over the next 30 years to \$15 each.



Considering their status as struck from the genuine Confederate reverse die, these restrikes are highly collectible and demand a significant premium when they appear on the numismatic market. I have seen restrikes grading from VG to Mint State; since the obverse is always flattened, these are usually graded by the reverse. Determining the genuineness of a restrike or genuine Confederate half dollar is very straightforward and only requires close scrutiny and the table below.

Identifying Original Confederate Half Dollars

Feature	Confederate Half Dollar Restrikes	Genuine Confederate Half Dollars
Weight	185 – 188 grains	±192 grains
Edge Reeding	Crushed, very weak, or flattened	Full
Obverse	Flattened or distorted CSA Die Crack not likely (see next page)	Intact designs CSA Die Crack
Reverse	Rust mark above (AM)ER(ICA)	No rust mark

Proskey stated that the half dollar reverses were “drilled off.”³ Some accounts claim the half dollar reverse were “planed off.” I’ve always wondered how the reverses could be effectively drilled or planed off and finally found an restrrike with strong reverse concentric lines confirming the original half dollar reverses were “lathed/milled off.” See image at right of a restrrike from a February 2013 Heritage Auction (image courtesy of www.HA.com).



At least three Confederate Restrikes are known with underlying remnants of the federal design. These may have been test strikes on non-turned down or partially turned down reverse half dollars that proved unsatisfactory since the unwanted design elements show faintly. The three are as follows:

1. Bowers and Ruddy New York Library Sale, 10/1982:2891, 188.2 grains (possibly only partially turned down).
2. Bowers and Ruddy New York Library Sale, 10/1982:2893, 186.5 grains (possibly only partially turned down).
3. Bowers and Merena 8/1991:759, lot withdrawn, 189.05 grains (possibly only partially turned down).

Confederate Restrikes with the CSA Die Crack. Over the years, I have tried to attribute the obverse die of the Confederate Restrike examples. Most features are flattened to a point that die identification is difficult. But with 500 1861-O half dollar used for the Confederate restrikes, there was a chance that a few would have the obverse CSA die crack, the same as that used with the genuine Confederate half dollar. This is about as close as you can come to having a genuine Confederate half dollar without having one of the original four. I, and others, have identified five of them and there are likely others.

1. Bowers and Ruddy, New York Library Sale, 10/1982:2891 (see above).
2. Bowers and Merena, Rare Coins from the Abe Kosoff Estate, 11/5/1985:4243.
(ID key: finger print remnant by the obverse rock; small nick between stars 3-4)
3. Dick Osburn Rare Coins to Jim Bevill⁴
(ID key: small obverse dig between the top of Liberty’s head and star 8).
4. Stack’s-Bowers Sale of the Dick Osburn Collection, 8/18/2011:7078
(ID key: dig in the obverse left field between stars 5 and Liberty’s arm)
5. Bill Jones, photo and description on the PCGS message boards, 1/28/2013
(ID key: small obverse rim dig at K-7)

³ Proskey, David. Private letter to ML Beistle. NY, NY, September 25, 1923.

⁴ Bevill, Jim. “The Confederate Half Dollar Revisited.” *The Numismatist* September 2005: 40-43.

With the restrikes having the obverse flattened, the CSA die crack will also be flattened and nearly obliterated in some cases. The few examples I have seen above have only remnants of the CSA die crack visible as a small tine on the bridge of Liberty's nose and a weak die crack from the dentils near star 7. See image at right of Dick Osburn's example.



Confederate Half Dollar Tokens and Fantasy medals. Over the years, with the popularity of the history of the American Civil War and the Confederate half dollar, many fabrications were created to ease public demand for a low cost reminder of the Southern cause. Some reverse dies are poorly made imitations while others were likely spark erosion copies of a Confederate restrike (with the rust mark above (AM)ER(ICA)). The number of examples and variations of these copies is endless and, from my experience, growing. They can be found at many coin shows, antique shops, souvenir shops, and Civil War memorabilia establishments. I have many in my private collection some of which are paired with the Confederate Seal and others with the bust of Robert E. Lee; they can be often found for under \$10. In my opinion, the Patrick Mint made the most convincing copy of the Confederate die in a three medal set of 1,000 in 2002; fortunately, the obverse is a non-coin design. These medals were of silver, goldine/zinc, and copper/zinc with a common obverse. An example of the goldine/zinc medal is shown below.



The 2012 Half Dollar Summit



In March 2012 for the third Half Dollar Summit, Liberty Seated enthusiasts and Liberty Seated Collectors Club members (left to right in photo above) Randy Wiley, John Murison, Bill Bugert, and Dick Osburn gathered at the Bugert home in Gettysburg, PA for four days of friendship, coin camaraderie, marathon coin research, and lots of food and drink. Brian Cushing of Dick Osburn Rare Coins made a brief appearance from Northern Virginia and the nameless “prominent numismatist” made a surprise arrival with his security detail for a show and tell of his major rarities (shown on the table in the foreground in the photo above). The primary purpose of this summit was to gather large collections of later date New Orleans half dollars for study in preparation of my work on this Register.

Over 800 half dollars were studied as well as a large number of coins from other series. Everyone had a great time.

Appendix A: Resources

This appendix is not all inclusive of references used for this Register. Rather, it is meant to provide the Liberty Seated Half Dollar collector with a list of useful references to be used while collecting this series.

Beistle, Martin Luther. A Register of Half Dollar Die Varieties and Sub-Varieties. Shippensburg, PA: The Beistle Company, 1929.

Breen, Walter. Walter Breen's Complete Encyclopedia of US and Colonial Coins. F.C.I Press, Inc. and Doubleday, 1988.

Breen Walter. Walter Breen's Encyclopedia of United States and Colonial Proof Coins. New York: F.C.I. Press, Inc., 1977.

Bugert, Bill. A Register of Liberty Seated Half Dollar Varieties, Volume I, San Francisco Branch Mint. Gettysburg, PA: Self-published, 2009.

Bugert, Bill. A Register of Liberty Seated Half Dollar Varieties, Volume II, Carson City Branch Mint. Gettysburg, PA: Self-published, 2010.

Bugert, Bill. A Register of Liberty Seated Half Dollar Varieties, Volume III, New Orleans Branch Mint 1840-O to 1853-O NA. Gettysburg, PA: Self-published, 2011.

Bugert, Bill. A Register of Liberty Seated Half Dollar Varieties, Volume IV, New Orleans Branch Mint 1853-O WA to 1861-O. Gettysburg, PA: Self-published, 2013.

Carothers, Neil. Fractional Money. New York: John Wiley & Sons, 1930.

Cooper, Dennis R. The Art and Craft of Coinmaking - A History of Minting Technology. London: Spink & Son, 1988.

The Gobrecht Journal Collective Volume I, First Edition, LSCC, 1980.

The Gobrecht Journal Collective Volume II, First Edition, LSCC, 1985.

The Gobrecht Journal Collective Volume III, First Edition, LSCC, 1990.

The Gobrecht Journal Collective Volume IV, First Edition, LSCC, 1996.

The Gobrecht Journal Collective Volume V, First Edition, LSCC, 2009.

The Gobrecht Journal individual unbound issues from 2000 to the present.

National Archives notes researched and compiled by Bill Bugert and Randy Wiley.

Wiley, Randy and Bill Bugert. The Complete Guide To Liberty Seated Half Dollars. Virginia Beach, VA: DLRC Press, 1993.

Appendix B: List of Contributors

Randy Wiley
Dick Osburn
Mike Lloyd
John Murison
Pete LaConte
Rich Uhrich
Jane Waldron
Paul Kluth

Appendix C: Checklist of Late Date NO Branch Mint Die Marriages

<u>√</u>	<u>Date</u>	<u>WB-#</u>	<u>Rarity</u>	<u>Variety</u>
<input type="checkbox"/>	1853-O	WB-1	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-2	4	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-3	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-4	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-5	3	Arrows and Rays, AMERICAI
<input type="checkbox"/>	1853-O	WB-6	3	Arrows and Rays, AMERICAI
<input type="checkbox"/>	1853-O	WB-7	3	Arrows and Rays, AMERICAI
<input type="checkbox"/>	1853-O	WB-8	3	Arrows and Rays, AMERICAI
<input type="checkbox"/>	1853-O	WB-9	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-10	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-11	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-12	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-13	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-14	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-15	4	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-16	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-17	6	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-18	3	Arrows and Rays, Doubled Die Reverse
<input type="checkbox"/>	1853-O	WB-19	6	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-20	3	Arrows and Rays
<input type="checkbox"/>	1853-O	WB-21	3	Arrows and Rays
<input type="checkbox"/>	1854-O	WB-1	2	Arrows
<input type="checkbox"/>	1854-O	WB-2	3	Arrows
<input type="checkbox"/>	1854-O	WB-3	1	Arrows
<input type="checkbox"/>	1854-O	WB-4	3	Arrows
<input type="checkbox"/>	1854-O	WB-5	3	Arrows
<input type="checkbox"/>	1854-O	WB-6	4	Arrows
<input type="checkbox"/>	1854-O	WB-7	4	Arrows
<input type="checkbox"/>	1854-O	WB-8	4	Arrows
<input type="checkbox"/>	1854-O	WB-9	3	Arrows, Bigfoot N
<input type="checkbox"/>	1854-O	WB-10	4	Arrows, Bigfoot N
<input type="checkbox"/>	1854-O	WB-11	3	Arrows
<input type="checkbox"/>	1854-O	WB-12	3	Arrows
<input type="checkbox"/>	1854-O	WB-13	4	Arrows
<input type="checkbox"/>	1854-O	WB-14	3	Arrows
<input type="checkbox"/>	1854-O	WB-15	3	Arrows
<input type="checkbox"/>	1854-O	WB-16	5	Arrows
<input type="checkbox"/>	1854-O	WB-17	5	Arrows
<input type="checkbox"/>	1854-O	WB-18	4	Arrows
<input type="checkbox"/>	1854-O	WB-19	3	Arrows
<input type="checkbox"/>	1854-O	WB-20	5	Arrows

<u>√</u>	<u>Date</u>	<u>WB-#</u>	<u>Rarity</u>	<u>Variety</u>
□	1854-O	WB-21	3	Arrows
□□	1854-O	WB-22	3	Arrows
□□	1854-O	WB-23	6	Arrows
□	1854-O	WB-24	2	Arrows
□□	1854-O	WB-25	2	Arrows, Crumbled Reverse Die
□□	1854-O	WB-26	4	Arrows
□□	1854-O	WB-27	5	Arrows
□□	1854-O	WB-28	3	Arrows
□□	1854-O	WB-29	3	Arrows
□□	1854-O	WB-30	3	Arrows
□□	1854-O	WB-31	4	Arrows
□□	1854-O	WB-32	3	Arrows
□□	1854-O	WB-33	3	Arrows
□□	1854-O	WB-34	3	Arrows
□□	1854-O	WB-35	4	Arrows, Filled 54
□□	1854-O	WB-36	3	Arrows
□□	1854-O	WB-37	3	Arrows, Filled 54
□□	1854-O	WB-38	4	Arrows, Filled 54
□□	1854-O	WB-39	2	Arrows
□□	1854-O	WB-40	4	Arrows
□□	1854-O	WB-41	4	Arrows
□□	1854-O	WB-42	3	Arrows
□	1854-O	WB-43	3	Arrows
□□	1854-O	WB-44	3	Arrows
□□	1854-O	WB-45	3	Arrows
□□	1854-O	WB-46	3	Arrows
□□	1854-O	WB-47	3	Arrows
□□	1854-O	WB-48	3	Arrows
□□	1854-O	WB-49	3	Arrows
□□	1854-O	WB-50	4	Arrows
□□	1854-O	WB-51	3	Arrows
□□	1854-O	WB-52	3	Arrows
□□	1854-O	WB-53	3	Arrows
□□	1854-O	WB-54	3	Arrows
□□	1854-O	WB-55	3	Arrows
□□	1854-O	WB-56	4	Arrows
□□	1854-O	WB-57	3	Arrows
□□	1854-O	WB-58	3	Arrows
□□	1855-O	WB-1	3	Arrows, O over Horizontal O
□□	1855-O	WB-2	4	Arrows, O over Horizontal O
□□	1855-O	WB-3	4	Arrows
□□	1855-O	WB-4	4	Arrows
□□	1855-O	WB-5	3	Arrows
□□	1855-O	WB-6	3	Arrows
□□	1855-O	WB-7	3	Arrows
□□	1855-O	WB-8	3	Arrows

<u>√</u>	<u>Date</u>	<u>WB-#</u>	<u>Rarity</u>	<u>Variety</u>
<input type="checkbox"/>	1855-O	WB-10	3	Arrows
<input type="checkbox"/>	1855-O	WB-11	3	Arrows
<input type="checkbox"/>	1855-O	WB-12	3	Arrows
<input type="checkbox"/>	1855-O	WB-13	3	Arrows
<input type="checkbox"/>	1855-O	WB-14	3	Arrows
<input type="checkbox"/>	1855-O	WB-15	3	Arrows
<input type="checkbox"/>	1855-O	WB-16	3	Arrows
<input type="checkbox"/>	1855-O	WB-17	3	Arrows
<input type="checkbox"/>	1855-O	WB-18	4	Arrows
<input type="checkbox"/>	1855-O	WB-19	4	Arrows
<input type="checkbox"/>	1856-O	WB-1	4	
<input type="checkbox"/>	1856-O	WB-2	4	
<input type="checkbox"/>	1856-O	WB-3	3	Repunched 1
<input type="checkbox"/>	1856-O	WB-4	3	
<input type="checkbox"/>	1856-O	WB-5	4	
<input type="checkbox"/>	1856-O	WB-6	4	
<input type="checkbox"/>	1856-O	WB-7	3	Repunched 56
<input type="checkbox"/>	1856-O	WB-8	3	
<input type="checkbox"/>	1856-O	WB-9	2	Doubled Date
<input type="checkbox"/>	1856-O	WB-10	3	
<input type="checkbox"/>	1856-O	WB-11	3	
<input type="checkbox"/>	1856-O	WB-12	3	Repunched 6
<input type="checkbox"/>	1856-O	WB-13	3	Repunched 6
<input type="checkbox"/>	1856-O	WB-14	2	Repunched 56
<input type="checkbox"/>	1856-O	WB-15	3	Repunched 56
<input type="checkbox"/>	1856-O	WB-16	3	
<input type="checkbox"/>	1856-O	WB-17	3	
<input type="checkbox"/>	1856-O	WB-18	4	
<input type="checkbox"/>	1856-O	WB-19	3	Doubled Die Obverse
<input type="checkbox"/>				
<input type="checkbox"/>	1857-O	WB-1	3	
<input type="checkbox"/>	1857-O	WB-2	3	
<input type="checkbox"/>	1857-O	WB-3	3	
<input type="checkbox"/>	1857-O	WB-4	3	Repunched Date
<input type="checkbox"/>	1857-O	WB-5	4	
<input type="checkbox"/>	1857-O	WB-6	3	Date in Rock
<input type="checkbox"/>	1857-O	WB-7	3	
<input type="checkbox"/>	1858-O	WB-1	2	Errant 1 in Dentils
<input type="checkbox"/>	1858-O	WB-2	3	Errant 1 in Dentils
<input type="checkbox"/>	1858-O	WB-3	2	Errant 1 in Dentils
<input type="checkbox"/>	1858-O	WB-4	3	Errant 8 in Gown Above 2nd 8
<input type="checkbox"/>	1858-O	WB-5	4	Errant 8 in Gown Above 2nd 8
<input type="checkbox"/>	1858-O	WB-6	3	Quadrupled 2nd 8
<input type="checkbox"/>	1858-O	WB-7	3	Errant 8 from Rock
<input type="checkbox"/>	1858-O	WB-8	3	Errant 8 from Rock

<u>√</u>	<u>Date</u>	<u>WB-#</u>	<u>Rarity</u>	<u>Variety</u>
<input type="checkbox"/>	1858-O	WB-9	3	Errant 8 from Rock
<input type="checkbox"/>	1858-O	WB-10	3	
<input type="checkbox"/>	1858-O	WB-11	3	
<input type="checkbox"/>	1858-O	WB-12	3	Repunched 1 and Tripled 2nd 8
<input type="checkbox"/>	1858-O	WB-13	3	Repunched 1 and Tripled 2nd 8
<input type="checkbox"/>	1858-O	WB-14	3	
<input type="checkbox"/>	1858-O	WB-15	3	
<input type="checkbox"/>	1858-O	WB-16	3	
<input type="checkbox"/>	1858-O	WB-17	5	Errant Digits from Rock
<input type="checkbox"/>	1858-O	WB-18	3	Errant Digits from Rock
<input type="checkbox"/>	1858-O	WB-19	3	Errant 8s in Rock
<input type="checkbox"/>	1858-O	WB-20	4	Errant 8s in Rock
<input type="checkbox"/>	1858-O	WB-21	3	18 Repunched North, 2nd 8 Repunched South
<input type="checkbox"/>	1858-O	WB-22	3	Repunched 2nd 8
<input type="checkbox"/>	1858-O	WB-23	3	Repunched 2nd 8
<input type="checkbox"/>	1858-O	WB-24	4	Repunched 2nd 8
<input type="checkbox"/>	1858-O	WB-25	3	
<input type="checkbox"/>	1858-O	WB-26	3	
<input type="checkbox"/>	1858-O	WB-27	3	
<input type="checkbox"/>	1858-O	WB-28	4	Errant 18 from Rock
<input type="checkbox"/>	1858-O	WB-29	3	
<input type="checkbox"/>	1858-O	WB-30	3	Errant 8 from Rock above 2nd 8
<input type="checkbox"/>	1858-O	WB-31	3	
<input type="checkbox"/>	1858-O	WB-32	3	1 Repunched North
<input type="checkbox"/>	1858-O	WB-33	3	1 Repunched North
<input type="checkbox"/>	1858-O	WB-34	3	Errant 1 Far Left of 1
<input type="checkbox"/>	1858-O	WB-35	3	Extra High Date
<input type="checkbox"/>	1858-O	WB-36	4	
<input type="checkbox"/>	1858-O	WB-37	3	
<input type="checkbox"/>	1858-O	WB-38	3	
<input type="checkbox"/>	1858-O	WB-39	3	Base of 1 Inside Shield
<input type="checkbox"/>	1858-O	WB-40	3	Base of 1 Inside Shield
<input type="checkbox"/>	1858-O	WB-41	3	
<input type="checkbox"/>	1859-O	WB-1	2	Errant 9 in Dentils
<input type="checkbox"/>	1859-O	WB-2	3	Errant 9 in Dentils
<input type="checkbox"/>	1859-O	WB-3	3	Errant 9 in Dentils
<input type="checkbox"/>	1859-O	WB-4	3	
<input type="checkbox"/>	1859-O	WB-5	3	
<input type="checkbox"/>	1859-O	WB-6	3	Errant 9 from Rock
<input type="checkbox"/>	1859-O	WB-7	3	
<input type="checkbox"/>	1859-O	WB-8	4	Bisected Date
<input type="checkbox"/>	1859-O	WB-9	3	Repunched 1
<input type="checkbox"/>	1859-O	WB-10	4	
<input type="checkbox"/>	1859-O	WB-11	3	
<input type="checkbox"/>	1859-O	WB-12	3	
<input type="checkbox"/>	1859-O	WB-13	3	

<u>√</u>	<u>Date</u>	<u>WB-#</u>	<u>Rarity</u>	<u>Variety</u>
<input type="checkbox"/>	1859-O	WB-14	3	
<input type="checkbox"/>	1859-O	WB-15	3	
<input type="checkbox"/>	1859-O	WB-16	3	
<input type="checkbox"/>	1860-O	WB-1	2	
<input type="checkbox"/>	1860-O	WB-2	4	Weird Vertical Stripes
<input type="checkbox"/>	1860-O	WB-3	3	Weird Vertical Stripes
<input type="checkbox"/>	1860-O	WB-4	3	
<input type="checkbox"/>	1860-O	WB-5	3	
<input type="checkbox"/>	1860-O	WB-6	3	
<input type="checkbox"/>	1860-O	WB-7	3	Eagle Laying Egg
<input type="checkbox"/>	1860-O	WB-8	4	Eagle Laying Egg
<input type="checkbox"/>	1860-O	WB-9	3	Repunched Mintmark
<input type="checkbox"/>	1860-O	WB-10	3	Repunched Mintmark
<input type="checkbox"/>	1860-O	WB-11	3	
<input type="checkbox"/>	1860-O	WB-12	3	
<input type="checkbox"/>	1861-O	WB-1	5	USA Issue
<input type="checkbox"/>	1861-O	WB-2	5	USA Issue
<input type="checkbox"/>	1861-O	WB-3	2	LA Issue
<input type="checkbox"/>	1861-O	WB-4	2	LA Issue
<input type="checkbox"/>	1861-O	WB-5	4	LA Issue
<input type="checkbox"/>	1861-O	WB-6	3	LA Issue
<input type="checkbox"/>	1861-O	WB-7	2	LA Issue
<input type="checkbox"/>	1861-O	WB-8	2	LA Issue
<input type="checkbox"/>	1861-O	WB-9	2	CSA Issue
<input type="checkbox"/>	1861-O	WB-10	4	CSA Issue
<input type="checkbox"/>	1861-O	WB-11	3	CSA Die Crack
<input type="checkbox"/>	1861-O	WB-12	NC-1	CSA Half Dollar
<input type="checkbox"/>	1861-O	WB-13	2	CSA Issue, Die Crack Bisected Date
<input type="checkbox"/>	1861-O	WB-14	4	CSA Issue, Die Crack Bisected Date/Spared Olive Bud
<input type="checkbox"/>	1861-O	WB-15	2	CSA Issue, Spared Olive Bud

