

CAPPED BUST HALF DIMES

NEW 1833 REMARRIAGE(S)

Sean Kelly
for the John Reich Collectors Society
at the ANA World's Fair of Money
August 20, 2025



FEVER JOINS THE BOARD

February 12, 2007 – Edgar Souders announces new die marriage of 172-year-old coin



MrHalfDime Posts: **3,440** ★★★★★
[February 13, 2007 1:36AM](#)

This is truly significant news in the field of die marriage collecting of the early Federal coinage. Two new die marriages of Bust coinage discovered in the same week!! (1835 LM-12 half dime and 1806 O-130 half dollar). I don't recall that ever happening before. This is the first new die marriage for the baby busties in more than a dozen years, and the first since the publication of "Federal Half Dimes 1792 - 1837" by Russ Logan and John McCloskey in 1998. Coincidentally (and fortunately) it appears that the new die marriage, which of necessity must be numbered sequentially as LM-12, *does not* violate the LM numbering sequence, which also denotes the emission sequence (LM-12 was minted *after* LM-11, which in turn was minted *after* LM-10, etc.). From a detailed study of the discovery coin, it appears that it was minted using two previously known dies, late in their life. Although the coin is dated 1835, it appears that it was actually minted in 1836, after the 1835 LM-8 and also after the 1836 LM-7.

While this is truly spectacular news, it is met with somewhat mixed emotions by those of us who were 'complete' (91 of 91 known die marriages) just one short week ago. At least we now have something new to look for. 😊

first post" I've ever seen. Congratulations

ED BUST HALF DIME
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clusion in the next

ich Posts: **8,553** ★★★★★

TULATIONS, Edgar and welcome to the forums!



Barndog Posts: 2

nuclear first pos

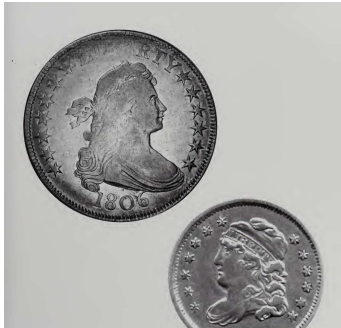


numi
[Febru](#)

Cool!
joine

<https://forums.collectors.com/discussion/comment/6256535>

APRIL 2007 JR JOURNAL




John Reich Journal

Volume 18 / Issue 1

April 2007

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

Edgar E. Souders, NLG



In July 2, of 1832 Pauson's "American Daily Advertiser" ran the following advertisement:

"United States Mint Property under authority from the President of the United States, will be sold at Public Sale on Thursday, the 10th of July, 1832, at 8 o'clock in the evening at the Merchants Coffee House.

The site of the old Mint, together with the improvements thereon, and a quantity of subtile machinery.

The machinery comprises a steam engine of 10 horse power, together with a complete system of rolling apparatus for hot and cold rolling, together with a drawing table connected with the steam power, all new in daily use, with a variety of other implements, fixtures, etc."

The advertisement further noted:

"The premises and machinery will be offered either separately or together, or may be considered most advantageous to the United States and to those persons inclined to purchase Terms, etc. at sale.

S. Moore, Director
C. J. Walker, Auctioneer"

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

However, because of delays with the new Second U. S. Mint building the old Mint was withdrawn from the sale. Six months later in January of 1833, the old Mint's machinery was removed and taken to the now finished Second Mint where it was used until 1835. Later that year the breadfruit engines were hauled back to the original Mint where on October 8, the first Mint and its remaining machinery was auctioned off to the general public realizing \$10,100.

Why am I telling you all of this about the Mints? Because, a multitude of change was occurring at this time as the old ways of the First Mint and more advanced technologies of the Second Mint collided. I would guess that "normal" coinage operations during this strenuous period were far from routine. I can imagine machinery being dismantled and hauled to the new location, items being boxed up, moved and so forth. No doubt some of the old worn-out items were left behind and there was likely to go with any move of this type an overall confusion at the new Mint perhaps leaving some items packed while others were repacked for a more thorough recheck later. Still, carelessness with the valuable dies used to strike coinage would have been a very abnormal practice, even during unfamiliar daily changes, as the dies were probably the most protected items of all the Mint's possessions. For example during the years of boats with Yellow Fever, when the Mint was forced to close, the common practice was to lock the dies in the vault of the First Bank of the United States where they would remain safe while the Mint sat idle. I imagine those same closely watched practices were in effect during the transfer of daily use items and machinery from the First to Second Mint.

So again, my reasons for telling you this first, is to place you in the correct mindset concerning the newly discovered die marriage that I now bring to your attention.

Over the last 35 years in my research and search for the variety of Capped Bust Half-Dollars, I have, on occasion, picked up a nice Capped Bust Quarter, Dime or Half-Dime whenever the opportunity arose. Recently, while spending a sleepless night playing with some of these popular "baby busts" that I had purchased in the past, I started examining a new 1835 Half Dime that I had purchased just the day before from an online show. Nothing special about this one - just a nice 1835 Half-Dime in VF - with pretty tuning. I retrieved my copy of "Federal Half Dimes 1792-1837" by Russ Logan and John McCloskey and quickly identified it as being a LM-8.1 - Obverse #4 and Reverse DD. Next I checked my pocket inventory sheet and noted I already had the variety, so I then decided to check the grade of my piece using my enlarged scanned computer image set (something I've done out of habit for many years). Normally I use these images for study but also use them in a situation like this when trying to determine which of the two was higher grade and/or more eye pleasing to me. I quickly hit the keys and brought up my earlier 1835 LM-8.1 to the screen. My set piece was a much nicer AU, so I decided to keep it and use the new purchase as "trader bait".

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

Still, I always do an obverse and reverse scan into the image database first, so I placed the new purchase LM-8.1 on the Dated scanner and made a quick scan of obverse/reverse and pulled both images to my tablet that screens using Photoshop CS2. Hmmmmmm . . .

Apparently, I had misattributed my earlier piece, because what I was viewing was not an LM-8.1 like the one I had just acquired. It was quite obvious with both of them side by side, each the size of a small dime plate, on two large computer screens. The obverse was a quick match being Obverse #4 but the reverse was quite different. My interest now heightened, I reopened the Half-Dime book and went through the other three "small date" reverses of LM-9, LM-10 and LM-11. No match. In fact, once I dug into it, nothing appeared even remotely close. How could I have missed this, I thought to myself. It appears that in my earlier sloppy attribution, after having identified Obverse #4, I had simply flipped the half-dime over, noted the of PLURIBUS in relation to the A's right foot in STATES, directly above, and never checked anything further. After all there were no known scarce or rare pieces among the 1835 small dates, save for the scarce R4, LM-11 with the of PLURIBUS pretty much centered beneath A of STATES. BIG MISTAKE!

A few minutes later I had both pieces under the stereomicroscope. (Keep in mind that it is now 3 a.m. and my wife still loves me!) Unlike the reverse of LM-8.1 this reverse showed the second S of STATES was pretty much equal distance and centered over the opening of the scroll between the S and I of PLURIBUS UNUM. I started making further comparisons and writing down notes on those findings. Longer more slender arrowheads and the top arrowshaft visually appears longer. Top section of E (from center bar up) of E PLURIBUS shows this area clipped out of the die (actually the raised piece in this case of the inner lining of the scroll). On the DD reverse of 1835 the tip of the drive stem just makes it over the C's serif in the denomination. On this piece the serif of the C is past the end of stem. The left wing, where it meets junction of the leg of the Eagle, shows a double feather "hump" up from the leg, whereas the DD reverse shows a smooth single transition. Lastly, while the wings themselves are narrower, giving the Eagle a scrawny appearance, and all the while keeping in mind that the entire design was lapped, the feather pattern does not fit the other small date reverse half-dime.

Knowing that the date on the coin does not necessarily mean that the coin was actually STRUCK in that year, I jumped back to the 1834 reverses and then ahead to the 1836 reverses. When I hit the JJ reverse of 1834 I was 98% sure I had a match. I scan the enlarged images and my notes out to friends/fellow researchers Brad Knudsen, Glenn

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

Peterman and Stephen Crain for confirmation on what I was seeing (after all, at 3 a.m. in the morning you never know!).

Meanwhile, while awaiting feedback, I weighed the new 1835 die marriage to rule out a fabrication, and the weight was correct for the half-dimes of this period. I printed out a large image of the new reverse and the dentil count showed 179 of the narrow style dentils. Initially, I could not see every dentil but using Photoshop CS2 I did a large see through overlay and placed it above an enlarged 1836 JJ reverse image. Every dentil matched perfectly (as it should) and then I could count the rest without problems. Diameter was also correct for the JJ reverse of 1836. I tried to count the reeds but failed after 3 attempts. Then I noticed that Russ Logan and John McCloskey had mentioned there were two collar dies used with 97 and 98 reeds respectively. The 1836 LM-7 marriage (JJ reverse) shows 98 reeds and that collar was believed to be terminated with this marriage - where it was nearly worn smooth - hence my inability to successfully do a reed count! Also noted was that a new C-munch was used on the JJ reverse, identifiable by the broken top C as seen on the new LM-12 and believed to have never been used again in the series. This broken C clinched it for me and now I'm happy to report that we have a new die marriage for 1835 Capped Bust Half-Dimes.

THE EMISSION ORDER OF THE DIES

There are many known examples of the Capped Bust Half-Dime series, where obverse dated dies were used in years after the date that appeared on the coin. This was likely due to coinage demand and the above-mentioned chaotic transition between the First and Second U.S. Mints. Therefore, determining Emission order of dies used cannot be 100% accurate solely based on the "year dated". So, my next challenge was to figure out if the new die marriage was actually struck in 1835 or 1836.

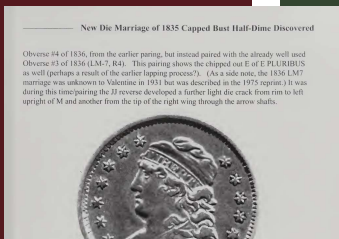
In 1836, LM-6 (Obverse #4, Reverse JJ) shows the first use of the E PLURIBUS. This was determined by viewing my 1836 LM-6 (a VF EF piece) as well as the example pictured in the Half-Dime Book.

On this first usage, the E of E PLURIBUS UNUM appears within the scroll above the top inner section of the E still intact (without the die chip-out). At some point, after an underminted amount of 1836 LM-6's were struck, the JJ reverse die was removed from the press and heavily lapped.

Next, the reverse was mated with a different 1836 dated obverse, but this time it was not

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

Obverse #4 of 1836, from the earlier pairing, but instead paired with the already well used Obverse #3 of 1836 (LM-7, R4). This pairing shows the clipped out E of E PLURIBUS as well (perhaps a result of the earlier lapping process). (As a side note, the 1836 LM-7 marriage was unknown to Valentine in 1931 but was described in the 1973 reprint.) It was during this time pairing the JJ reverse developed a further fight the crack from rim to left upright of M and another from the tip of the right wing through the arrow shafts.




1835 LM-12 Obverse #4 Discovery Piece

After an undetermined number of strikes this reverse was again pulled and taken for refinishing. But when they lapped it this time - it was even more extreme. This gave the JJ reverse a much cleaner overall appearance, as the lettering appears sharper with much less microscopic cutting around the individual letters. But it shranked out the entire lettering and Eagle device design. As a result of this, the reverse has a "blinking" of the scroll due to the extreme lapping process where the lower and upper edge of the scroll now appear closer to the tips of the lettering of E PLURIBUS UNUM. In fact, the scroll piece directly below the second U of PLURIBUS is nothing more than a suppressed raised baseline instead of being a solid line. The arrow feathers of the lower arrow are now barely visible, with most of the lower feathers directly above the flag of the S "flaring" as small raised humps in the field. The Eagle has entirely lost its tongue. The dentils visually appear mushy. The lowest pair of olive leaves is detached from the olive stem and the lowest berry is also detached from the stem.

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

Following this extreme lapping process, the JJ reverse was once again returned to the press but this time it was paired with Obverse #4, dated 1835 (Small Date) creating the new LM-12 die marriage being discussed here. The new marriage displays the top section of E of E PLURIBUS already clipped out like the LM-7 of 1836 (same reverse JJ). After an undetermined number of the new LM-12's were struck, the JJ reverse was retired and never used again.



1835 LM-12 Reverse JJ Discovery Piece

Note: The only die crack partially visible on the new 1835 Discovery Piece is a single, very light crack developing from the top of A in AMERICA to rim. ALL OTHER HAIRLINE CRACKS WERE LAPPED OUT!

Clipped Out Top of E in Scroll

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

1833-1836 EXPERIMENTS AT THE MINT

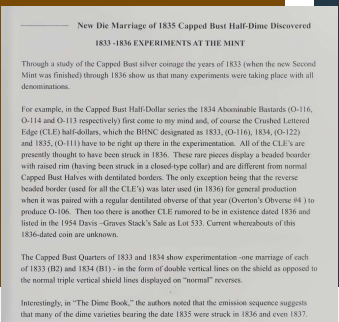
Through a study of the Capped Bust silver coinage the years of 1833 (when the new Second Mint was finished) through 1836 show us that many experiments were taking place with all denominations.

For example, in the Capped Bust Half-Dollar series the 1834 Abominable Bastards (O-116, O-114 and O-112) respectively first come to my mind and, of course the Cracked Lettered Edge (CLE) half-dollars, which the BINC designated as 1833, (O-116), 1834, (O-122) and 1835, (O-111) have to be right up there in the experimentation. All of the CLE's are presently thought to have been struck in 1836. Those rare pieces display a beaded border with raised rim (having been struck in a closed-type collar) and are different from normal Capped Bust Halves with denominated borders. The only exception being that the reverse beaded border (used for all the CLE's) was later used (in 1836) for general production when it was paired with a regular denominated obverse of that year (Overton's Obverse #4) to produce O-106. Then too there is another CLE rumored to be in existence dated 1836 and listed in the 1954 Davis-Givens Stock's Sale as Lot 533. Current whereabouts of this 1836-dated coin are unknown.

The Capped Bust Quarters of 1833 and 1834 show experimentation - one marriage of each of 1833 (B2) and 1834 (B1) - in the form of double vertical lines on the shield as opposed to the normal triple vertical shield lines displayed on "normal" reverses.

Interestingly, in "The Dime Book," the authors noted that the emission sequence suggests that many of the dime varieties bearing the date 1835 were struck in 1836 and not 1837. Punch style and punch size were the big experimentation features with the dimes during this period. But also, there was another even more interesting feature, starting in 1836 a significant change was made in the denomination where the beads were replaced in favor of a new design with long narrow dentilations similar to dime pieces struck prior to 1828 in an open collar.

And now we arrive at the Capped Bust Half Dimes for this period. . . .



Bruce C. Lapped Lower Arrow Feathers - Narrow Dentils.

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

Similar to the larger dime brethren most of the experimentation going on had to do with the punch style variation and punch sizes. However, like the Capped Bust Dimes of 1836, the Half Dimes of 1836 show experimentation with the beaded border being changed to the new narrow elongated dentil design. Of the 11 die marriages placed in the "Half-Dime Book," only 4 Reverses show this feature. Reverse FF with 180 narrow dentils, Reverse GG with 179 narrow dentils, Reverse HH with 174 narrow dentils and the JJ reverse with 179 narrow dentils. All Capped Bust varieties of 1837, save one (LM-4), shows the use of the reverse narrow dentil design. This new elongated narrow dentil style was thought to have never been used on Half-Dime dated prior to 1836 - until now.

OTHER NOTABLE OBSERVATIONS NOT MENTIONED IN THE HALF-DIME BOOK

Obverse #4 of 1835:

*** There is a fine line from the hall of the S in the date to the upright above (similar to the so-called 1822/21 Half Dollar).

Reverse JJ of 1835:

*** The right serif of M is above the E in AMERICA.

*** The left "upright" of all three A's are best.

*** On the heavily lapped reverse of JJ, when used to strike the new LM-12, there is a small style groove/slip from the very tip of the right wing. This shows on all three marriages where JJ was used but it is particularly evident of the final use with the new die marriage - probably due to the lapping process making it appear more prominent.

*** The far left claw (your left) is split.

I feel honored to have found this new die marriage and am happy to report it here to you in the JRCS Journal. As a writer/reviewer of early Federal coinage, this is the kind of thing we strive for and I'm excited the hall on the back of our next stack up! I would ask of Capped

New Die Marriage of 1835 Capped Bust Half-Dime Discovered

Half Dime Dime enthusiasts to double-check their collections for the new LM-12. Feel free to contact me at: esouders@charter.net.

Lastly, I would like to personally thank Brad Knudsen, Dr. Glenn Peterman and Stephen Crain for their verifications of my observations in preparation for this article.

References:

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THE 1835 LM-12 IS
STILL VERY SCARCE.

THIS MS65 SURFACED
IN 2024.

BY FAR THE BEST, IT'S
A \$60K COIN.

Interesting story: this coin last
appeared publicly at the Bowers &
Merena Walter H. Childs sale in 1999
as a "small date/large 5c."

After the 2007 discovery, an
observant JRCS member "retro-
attributed" it in the 1999 catalog.

That kind of knowledge is power.



Imaged by Heritage Auctions, HA.com

<https://coins.ha.com/itm/bust-half-dimes/1835-h10c-small-date-large-5c-v-12-lm-12-high-r7-ms65-pcgs-pcgs-501413-/a/1374-4419.s?ic4=ListView-ShortDescription-071515>

A NEW DIE MARRIAGE ASSERTS ITS EXISTENCE AND GETS A WRITE-UP IN THE NOVEMBER 2021 JR JOURNAL

What's Going on in the Tiny World of Capped Bust Half Dimes...and a New Remarriage

NEW DISCOVERY

I am grateful to have been chosen to announce a more recent discovery by the Iowa collector. This new discovery means you can start looking for AT LEAST one new die remarriage! The Iowa collector found a holed 1830 half dime with a retained cud on the reverse over NIT of UNITED. This type of cud is normally associated with another die marriage that also used Reverse L, the 1831 LM-1 die marriage. Take a look at the coin here:



Clearly, this must be a new remarriage. For now, we are calling this the 1830 LM-9.3. However, the research must not end here. There is likely at least *one additional remarriage* that needs to be described too! If one examines enough 1831 LM-1.3 half dimes, one notices there are early die state examples that show a crack at NIT of UNITED, and there are later die state examples that show a later die state cud than the one featured above on the 1830 LM-9.3. So perhaps the numbering for the 1831 LM-1 remarriages should include LM-1.1, LM-1.2, LM-1.3, and LM-1.4! Think about it: just when you thought it was a challenge to collect 123 die marriages and remarriages, it will be an even greater undertaking to assemble at least 125! Certainly, more research needs to be done. Further, I recognize that we don't always incorporate the results of research into our collecting and "categorizing" goals. For example, years ago I illustrated that there may be no distinction between 1829 LM-13.1 and LM-13.2, yet we still designate the die marriage this way. So it may take YEARS before the 1830 LM-9 and 1831 LM-1 remarriages achieve wide recognition amongst the collector base and become sorted out.

This article was meant to be the starting point of the discussion on the newly-discovered remarriage. It is my sincere hope that this article spurs collectors to look for additional examples and to compare the die state shown on this coin to their 1831 LM-1.3 half dimes to see if we truly need to further reassess the remarriage numbering for the 1830 LM-9 AND the 1831 LM-1.

THE 1830 LM-9.3 WAS
FORMALLY
ANNOUNCED
IN THE JRJ BY
RICHARD
MEANEY

THIS UNIQUE COIN WAS THE 2023 JRJ COVER GIRL


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1830 CAPPED BUST HALF DIME 5C RARE REVERSE DIE BREAK CUD MINT ERROR LM-9.2 HOLED




PRICING & HISTORY

SOLD FOR
SOLD DATE
SOURCE

[START FREE TRIAL](#)
or [Sign In](#) to see what it's worth.
Online Marketplace

You will receive the exact coin that is pictured in the photos. Nice 1830 Capped Bust Silver half dime. Rare Die Break on the reverse!! Very tough to find! I believe this coin is the LM-9.2 Variety. Which is an R-4, But I believe this coin is an LDS example. (Late Die State) because the die crack from U(NITED) to the rim is much more bold on this coin than on other LM-9.2 Varieties I have seen. This coin has nice details but it is holed. Would make a great filler coin for a tough variety! Please view the photos provided so you can judge the condition of the coin and attribute the variety for yourself! If you have any questions feel free to ask! Dont forget to check out the rest of the coins that I have for sale! All my auctions are No Reserves, & Offers are welcomed on all my buy it now items! Thanks for looking! 1830 Capped Bust Silver Half Dime 5c Rare Reverse Die Break Cud Error Holed. Shipped with USPS First Class.



John Reich Journal

March 2023

MY FIRST "DISCOVERY"

An 1835 LM-3
with mismatched
photos caught
my eye – from
my hotel room
at the ANA,
August 2023.

I was (temporarily) the proud discoverer of a new Capped Bust Half Dime die marriage ⭐ ⚙️



Bikergeek Posts: 585 ★★★★★

November 8, 2023 3:49PM in U.S. Coin Forum

On August 10, 2023, in a hotel room in Pittsburgh, I was surfing coin dealer websites and auction houses from my laptop. It was my last evening at the ANA's World's Fair of Money. I was looking through my scores of bookmarks in a routine I call "running the jewels," seeking coins I need or want for my capped bust half dime passion. Across the room, my roomie, Dr. Glenn Peterson – numismatist/author/expert/friend – was poring over some numismatic tome or treasure. (And before I go any further, let me just say what a privilege it is to hang out with Glenn for 3 days at a major coin show! "Gentleman and a scholar" is overused but supremely fitting here!)

One of the lots from an unknown/untried auction house caught my eye. I won't name them here. The pics below show the obverse and reverse of an 1835 half dime. Obverse 2 is easy to spot: the large blocky 8 that looks taller than the fancy 8 on the other two large-date obverses that year. Obverse 2 is known only on one die marriage; paired with reverse AA (large 5c, S1 close to scroll) it comprises LM-3. BUT WAIT: this coin has a small 5c!



<https://forums.collectors.com/discussion/1097340/i-was-temporarily-the-proud-discoverer-of-a-new-capped-bust-half-dime-die-marriage>



MY SECOND "DISCOVERY"

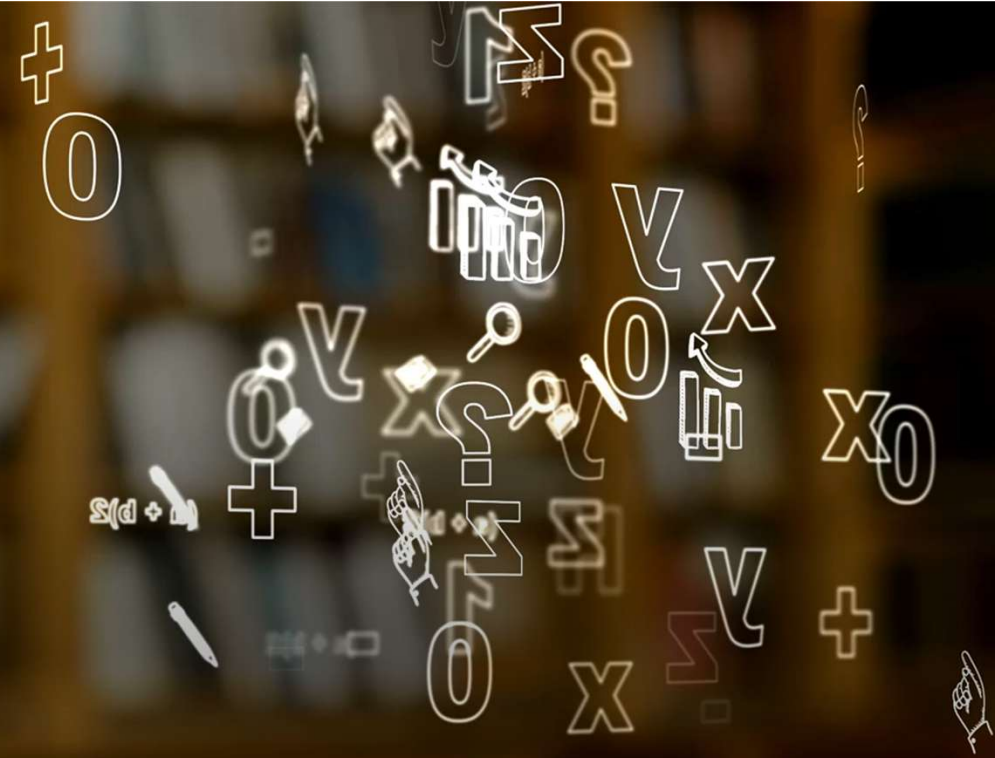
Reverse V was never paired
with an 1833 Obverse!

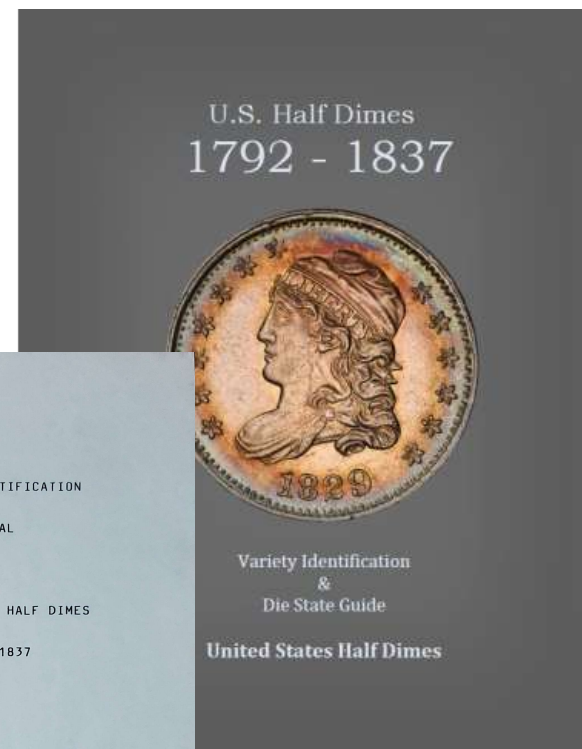
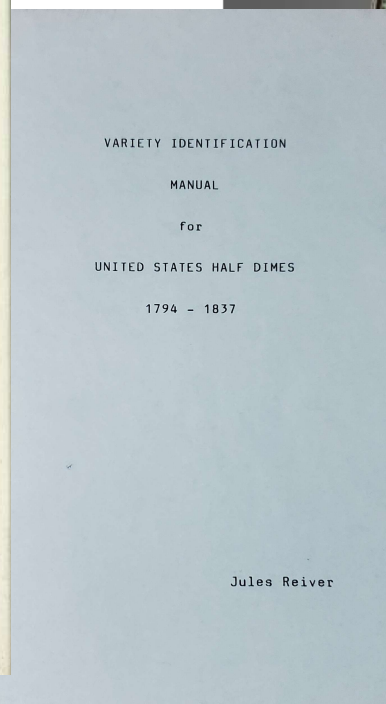
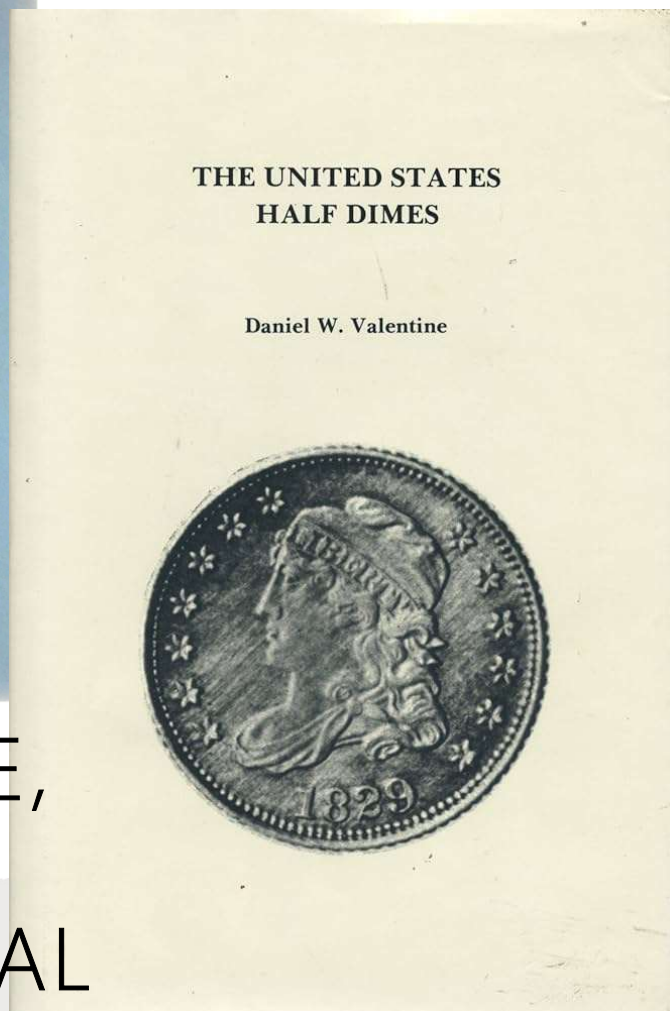
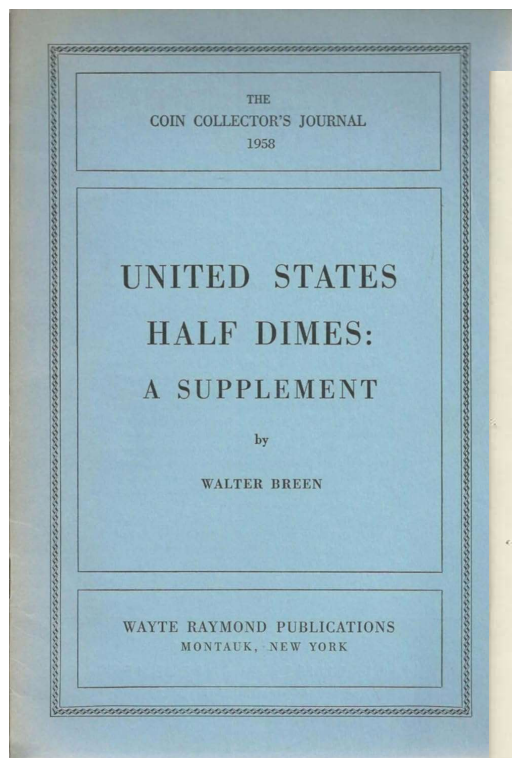


SO I KEPT MY NOSE TO THE
GRINDSTONE...
MY EAR TO THE GROUND...
MY EYES WIDE OPEN...



AND STAYED
UP ON THE
LITERATURE





VALENTINE,
BREEN,
REIVER, ET AL

Federal
Half Dimes
1792-1837

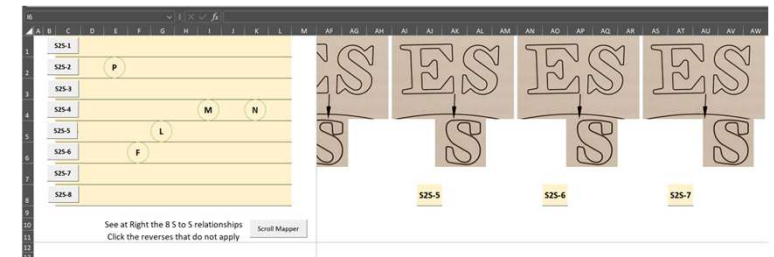
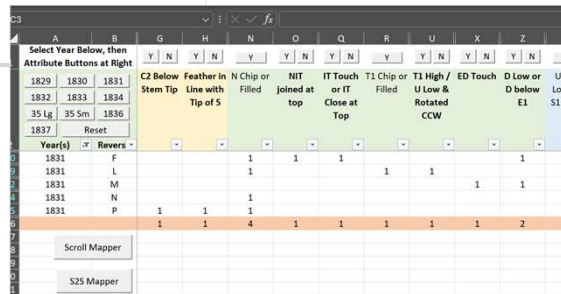


Russell J. Logan
John W. McCloskey

FEDERAL HALF DIMES 1792-1837

BY RUSSELL J. LOGAN AND
JOHN W. MCCLOSKEY





AND THEN A NEWLY LISTED COIN WITH NO PHOTO
INSPIRED ME TO LOOK BACK TO HERITAGE, 2004...

LOT #6074 | [Jump to Lot](#) [GO](#)

SOLD ON SEP 9, 2004 FOR: \$437.00

1833 H10C MS62 PCGS. V-5, LM-7, R.2. A nicely struck ...



1833 H10C MS62 PCGS. V-5, LM-7, R.2. A
NICELY STRUCK PEARL-GRAY HALF DIME
THAT HAS REASONABLE LUSTER AND NO
RELEVANT ABRASIONS. A DIE CRACK
FROM THE TOP OF THE A IN STATES TO
THE RIM IS **UNMENTIONED IN THE
LOGAN-MCCLOSKEY REFERENCE.**

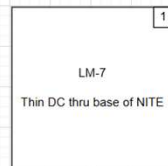
<https://coins.ha.com/itm/bust-half-dimes/1833-h10c-ms62-pcgs-v-5-lm-7-r2-a-nicely-struck-pearl-gray-half-dime-that-has-reasonable-luster-and-no-relevant-abrasions-a-die-crack/a/355-6074.s?ic4=ListView-ShortDescription-071515>

DIE DETERIORATION CHART REVERSE Y (ORIGINAL)

Reverse Y

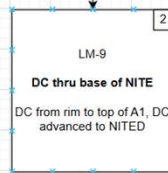
1833 LM-7

[Obverse 3](#)



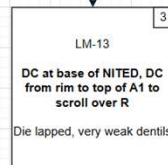
1833 LM-9

[Obverse 2](#)



1832 LM-13

[Obverse 5](#)



Heritage sold an identified LM-7 in 2004-09-09 and said it had the DC from A1 to rim. This is up for auction again in 2025 at HA. If so - Drawio for Rev Y should change to show the crack on this first use of Rev Y, not the second use in LM-9.

Also, ALL LM-9s would have to have that crack.



1833 LM-7 <https://www.pcgs.com/cert/21318465>

Legend

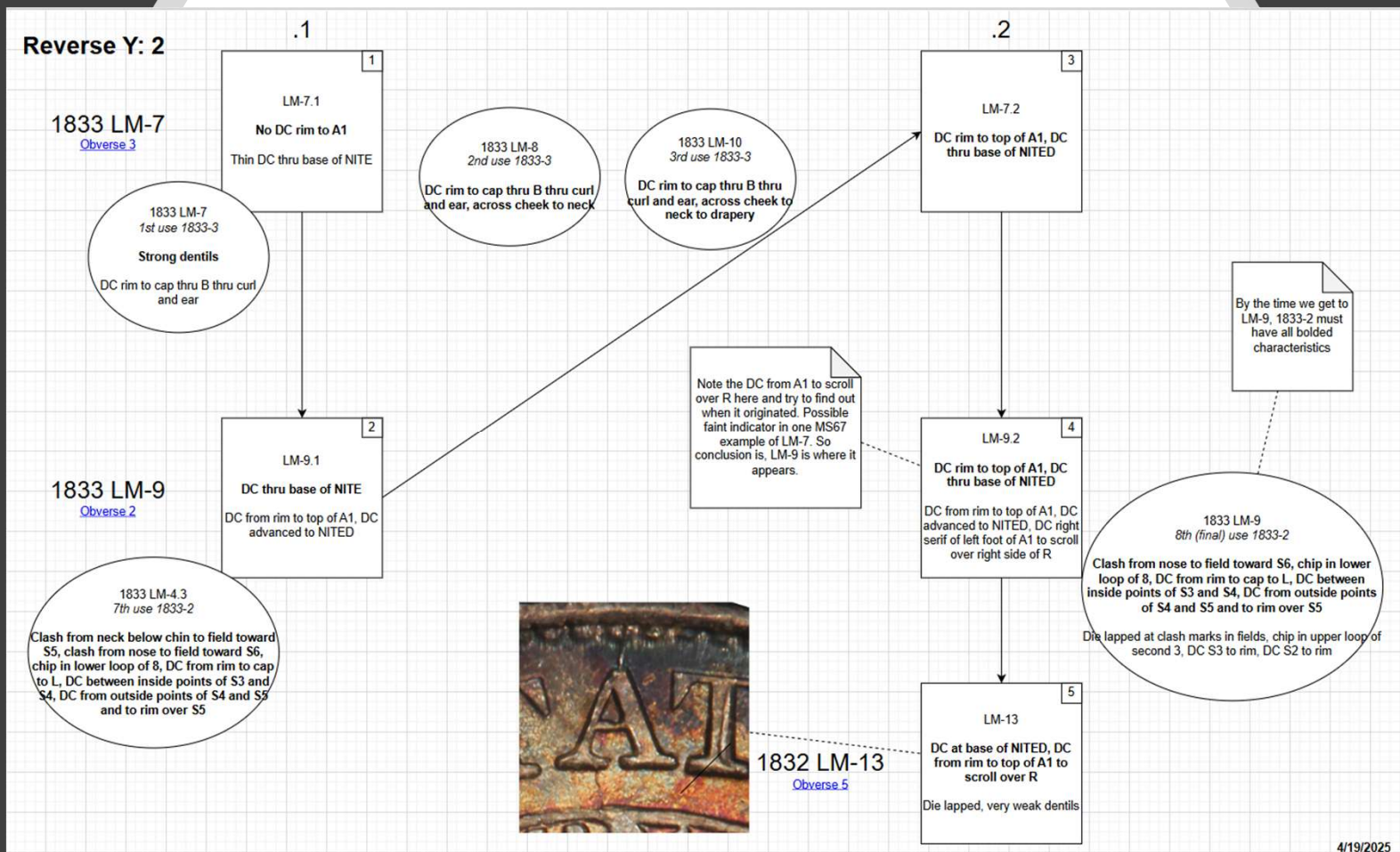
Must have

May have

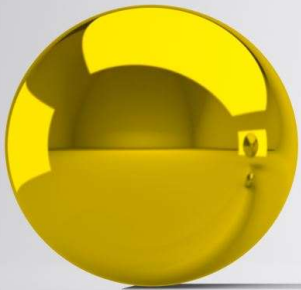
Possible or TBD

3/12/2025

DIE DETERIORATION CHART REVERSE Y (RESEARCH)



CURRENT VS. POSSIBLE (RE)MARRIAGE PROGRESSION



| | 1 st Use | 2 nd Use | 3 rd Use | 4 th Use | 5 th Use |
|---------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Current | 1833 LM-7 | 1833 LM-9 | 1832 LM-13 | -- | -- |

| | 1 st Use | 2 nd Use | 3 rd Use | 4 th Use | 5 th Use |
|----|---------------------|---------------------|---------------------|---------------------|---------------------|
| #1 | 1833 LM-7.1 | 1833 LM-9.1 | 1833 LM-7.2 | 1833 LM-9.2 | 1832 LM-13 |
| #2 | 1833 LM-7.1 | 1833 LM-9 | 1833 LM-7.2 | 1832 LM-13 | -- |
| #3 | 1833 LM-9.1 | 1833 LM-7 | 1833 LM-9.2 | 1832 LM-13 | -- |
| #4 | 1833 LM-9.1 | 1833 LM-7.1 | 1833 LM-9.2 | 1833 LM-7.2 | 1832 LM-13 |

1833 LM-9 DEVELOPS A CRACK FROM A TO SCROLL
THAT IS PRESENT ON ALL 1832 LM-13S – SO LM-9 IS SECOND TO LAST

| | 1 st Use | 2 nd Use | 3 rd Use | 4 th Use | 5 th Use |
|----|------------------------|------------------------|------------------------|------------------------|-----------------------|
| #1 | 1833 LM-7.1 | 1833 LM-9.1 | 1833 LM-7.2 | 1833 LM-9.2 | 1832 LM-13 |
| #2 | 1833 LM-7.1 | 1833 LM-9 | 1833 LM-7.2 | 1832 LM-13 | -- |
| #3 | 1833 LM-9.1 | 1833 LM-7 | 1833 LM-9.2 | 1832 LM-13 | -- |
| #4 | 1833 LM-9.1 | 1833 LM-7.1 | 1833 LM-9.2 | 1833 LM-7.2 | 1832 LM-13 |

OPTIONS 1 AND 3 BOTH INDICATE AN LM-9 REMARRIAGE

1832 LM-13 IS LAST (PER L&M – AND DEMONSTRABLY)

| | 1 st Use | 2 nd Use | 3 rd Use | 4 th Use | 5 th Use |
|----|---------------------|---------------------|---------------------|---------------------|---------------------|
| #1 | 1833 LM-7.1 | 1833 LM-9.1 | 1833 LM-7.2 | 1833 LM-9.2 | 1832 LM-13 |
| #3 | 1833 LM-9.1 | 1833 LM-7 | 1833 LM-9.2 | 1832 LM-13 | -- |

BUT WHICH WAS FIRST: LM-7 OR LM-9?

There are contradictions in the book:

- In **LM-7** (p. 240): “Thin die crack **forms** through the base of NITE.”
- In **LM-9** (p. 242): “Small die crack **forms** at the base of NITED.”

Both show a “near-pristine” state **as far as I’ve observed...**

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IS THERE PROOF
OF EITHER LM-7
OR LM-9 BEING
THE FIRST USER
OF REVERSE Y?

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JULY 2025 JR JOURNAL – MY ARTICLE IS OUT!

Capped Bust Half Dimes – Two New 1833 Remarriages

By Sean Kelly

1833 LM-7 and LM-9: Undiscovered Remarriages

Striving to upgrade my Capped Bust half dime set, I keep a sharp eye peeled. As new facts come to light, I update my documentation, the core of which came from the book "Federal Half Dimes 1792-1837" by Russ Logan and John McCloskey ("LAM"). I note new findings, fit minor errors, chart die progressions, and share information with fellow collectors.

A recent Heritage Auctions (HA) listing for a nice MS62 1833 LM-7 led me to review lot 2555 in HA's 2004 September Long Beach Signature Sale. The cataloger wrote this introduction: "1833 HALF MS62 PCGS, V.S. LM-7. R? A nicely struck post-1849 half dime that has reasonable luster and no relevant obverse. A die crack from the top of the A in STATES to the rim is **unmentioned** in the Logan-McCloskey reference." (*Emphasis mine*).

This LM-7 crack was news to me! I set out to chart this change, but first, due diligence required me to find the crack in LM-7 and then to verify that all subsequent uses of Reverse Y had the crack. The cracks, once formed, are permanent and do not get removed or lapped away. Unlike, for example, die clashes, cracks are a reliable indicator of die deterioration and do not appear and disappear between marriages.

LAM say that **Reverse Y** was used in three marriages in this order: 1833 LM-7, 1833 LM-9, and 1832 LM-13. Searching the web, I found 1833 LM-7s with and without the *Al* die crack, and 1833 LM-9s with and without the crack. I recognized that **there must be at least one die remarriage among these two 1833 marriages**.

A Die Remarriage

"The *single analysis* of many Capped Bust half dimes reveals that an obverse-reverse die pair was frequently reused after one or both of the same obverse-reverse die pair is mentioned in other words, a *die remarriage occurs* if the same obverse-reverse die pair is mentioned in the same press after either of the dies was used to strike another die marriage. Because one new press was used exclusively for the production of half dimes, there is a need for continual set-up and break-down of the dies and periphery equipment to satisfy the demands for the remaining copper, gold, and silver denominations coined at the Mint." – LAM

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Capped Bust Half Dimes – Two New 1833 Remarriages

The Current State

LAM describe this Reverse Y progression:

1. LM-7 forms a DC from rim to top of the base of NITE.
2. LM-9 forms a DC from rim to top of A1 (the A in STATES). Also, "a small die crack forms at the base of NITEED."
3. 1832 LM-13 has a DC from rim to A1 which proceeds to the scroll over R, a DC at base of NITEED, and severe lapping with weak details.

Therefore, we expect to encounter:

- A. LM-7 with no reverse cracks
- B. LM-7 with crack under NITE
- C. LM-9 with crack under NITE
- D. LM-9 with crack under NITE and crack A1 to rim
- E. LM-9 with crack under NITEED and crack A1 to rim
- F. 1832 LM-13 with crack under NITEED and crack A1 to rim to scroll over R

Since this 1833 LM-7 deviates from these expectations, I undertook a deep dive. I wrote down my research questions, started downloading images, and devised a matrix to record and sort the die progressions for Reverse Y. In all questions, I assume that the LAM work is accurate until demonstrated otherwise; the book is 27 years old and has held up well.

Research Questions

Q1 – On Rev Y, when does the crack from rim to top of A1 occur?

Based on LAM's emission order for Reverse Y:

| | 1st Use | 2nd Use | 3rd Use | 4th Use | 5th Use |
|---------|-----------|-----------|------------|---------|---------|
| Current | 1833 LM-7 | 1833 LM-9 | 1832 LM-13 | -- | -- |

If the A1 to rim crack occurred during LM-7, then all instances of LM-9 and 1832 LM-13 should show it. If the A1 to rim crack occurred during LM-9, then no instances of LM-7 should show it.

Observation: There are LM-7s with and without the crack from rim to A1, and there are LM-9s with and without that crack.

LAM say: "The working die continued to operate during the production of a specific die marriage. This dynamic degradation is documented in the present form. A description such as the crack *forms* from rim to top of A1, or the *die develops* within the upper half of A1 describes a die failure that occurred during the striking of the die marriage. Every effort has been made to chronologically list these die defects."

LAM assure that 1832 LM-13 has the DC from rim to A1 to scroll over R – has *didn't* fail as when *forms*. This article addresses that.

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Capped Bust Half Dimes – Two New 1833 Remarriages

The ladder charts above show the order of use for the obverses (left) and reverses (right). Note that these are not the names of the dies; they are the emission order numbers. Figure 2 reveals that 1833 LM-7 and LM-9 share a die (which we know to be 1833 Obverse 3). Therefore, we must sort in LM-9 accurately. There is a (rare) phrasing die crack from rim through B down to slope on Obv. 3 that forms in LM-7 and is seen in all instances of LM-9. But at which remarriage of LM-7 did it form?



Figure 4: 1833 LM-7 with full obverse crack

Observation: The observed instances of LM-7, which lack the reverse die crack from A1 to rim also lack the 1833 Obverse 3 die cracks. The copies of LM-7, like the NGC-CAC MS67 image in Figure 4, taken from Stack's Bowers November 2012 Baltimore sale, show a progression of those die cracks from rim to top to rim to neck.

Adding two remarriages means there are now five steps on the ladder chart where there were three. For reverse Y, they are steps 1 through 5. *Read me also see increments 1 through 5 in the steps for the obverse?* The answer is no. Per LAM's convention for marriages like 1829 LM-6 or 1830 LM-4, where remarriages were triggered by a "wandering" reverse die but the obverse was "stable", the initial number of the obverse remained the same for all remarriages. Many plainly: 1829 LM-6.1, .2, and .3. For all shown as the **second** use of 1829 Obverse 4 (pp. 147-149). And 1830 LM-4.1 and 4.2 are both called the **second** use of 1830 Obverse 2 (pp. 175-177), although in LM-4.2, the authors clarify it is the **second "and final"** use.

Conclusions:

1. I place 1833 LM-9 after LM-7.2 in the emission order ladder.
2. I place LM-9 before LM-9.4 in deference to LAM's original order. Since LM-9 and LM-9 share neither obverse nor reverse dies, there is no empirical way to show their emission order.
3. LM-7.1 and LM-7.2 are both noted as the **first** use of 1833 Obv. 3.
4. LM-9.1 and LM-9.2 are both noted as the **eighth** use of 1833 Obv. 2, although LM-9.2 has the distinction of being "right and final".

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Capped Bust Half Dimes – Two New 1833 Remarriages

The "New" Current State

I submit that there are remarriages for 1833 LM-7 and LM-9, and that they are positively identifiable by the absence or presence of the die crack from A1 to the rim. Figures 5 through 8 show the coins with cleavage of A1 for, respectively, LM-7.1, LM-9.1, LM-7.2, and LM-9.2.



Figure 5: 1833 LM-7.1 and 1833 LM-9.1



Figure 6: 1833 LM-7.2 and 1833 LM-9.2



Figure 7: 1833 LM-7.2 and 1833 LM-9.2

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Capped Bust Half Dimes – Two New 1833 Remarriages



Figure 8: 1833 LM-9.2 and 1833 LM-7.2

Choosing Thoughts

There is more work to be done. The question of first use of Reverse Y should be settled (if not scientifically, at least politically). This will decide the existence of an LM-7 remarriage.

Obverse states, which I mention, but do not attempt to arrange here, should be documented and associated to the remarriages as LAM do for every remarriage:

- For LM-7, the progression of the vertical die crack in 1833 Obv. 3.
- For LM-9, an array of cracks and chips.

Partly ratings should be estimated. LAM assigned R2 ratings to both 1833 marriages (S1 to 1,250 coins exact), and the JRCS maintains the R2 estimate in its census, but I do not assign an R rating to these remarriages. I had no difficulty in finding examples of all four remarriages.

I intend to seek concurrence from the Capped Bust half dime community, and will conduct outreach via the JR Newsletter. You may contact me to express interest or share your thoughts via my link at the JRCS: https://jrcs.org/jrcs_contact.php or on the forums where my handle is "JillKemp".

As to the 1833 LM-7 (PCGS/CAC 2118465) that incited this article: I call it 1833 LM-7.2. The A1 to rim crack is there, just as the HA cataloger told us in 2004.



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MY DECISION MATRIX

| | A | B | C | D | E | F | G | H | I | J | L | M | N | O | P | Q | R | S | T | U | V | W | X | |
|----|--------------------------|------|----------|---------------|----------|---|----------------------------------|-------|--------------------------------------|-------------|-------------------------|---------------|-------------------------|------------------|----------------|-------------------------|---|--|---|-----------------|---|--|--|--|
| | Unique # (do not change) | Year | Marriage | Sort Marriage | New Name | Coin Link 1 | Coin Link 2 | TPG | Grade (needed for NGC Ctrl-L lookup) | Cert # | DC base of IT? (Note 1) | DC rim to A1? | DC base of ED? (Note 2) | DC A1 to Scroll? | Reverse WEIGHT | WEIGHT Factor (A1 only) | 1833 Obv 3 (LM-7) Die State A: DC Rim to Cap thru B thru Curl and Ear | 1833 Obv 3 (LM-7) Die State B: DC Rim to Cap thru B thru Curl and Ear Across Cheek to Neck | 1833 Obv 3 (LM-7) Die State C: DC Rim to Cap thru B thru Curl and Ear Across Cheek to Neck to Drapery | WEIGHT LM-7 Obv | 1833 Obv 2 (LM-9) Die State C: DC star 3 to rim | 1833 Obv 2 (LM-9) Die State E: DC inner points of S3 - S | 1833 Obv 2 (LM-9) Die State F: DC outer points of S4 - S | 1833 Obv 2 (LM-9) Die State G: DC outer points of S4 - S |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 1833 | LM-7 | 7 | LM-7.1 | P53 Coinfacts | | PCGS | 53 | 41615698 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 3 | 2 | 1833 | LM-7 | 7 | LM-7.1 | P50 Coinfacts | | PCGS | 50 | 27305838 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 4 | 81 | 1833 | LM-7 | 7 | LM-7.1 | Ted | | NGC | 58 | 6881227-047 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 5 | 84 | 1833 | LM-7 | 7 | LM-7.1 | | | ANACS | 62 | 9631110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 6 | 7 | 1833 | LM-7 | 7 | LM-7.1 | P58 Coinfacts | P58 HA | PCGS | 58 | 27305839 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | n/a | n/a | n/a | |
| 7 | 77 | 1833 | LM-9 | 9 | LM-9.1 | Ted | | PCGS | 50 | 18361310 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | #VALUE! | 1 | 0 | 0 | |
| 8 | 15 | 1833 | LM-9 | 9 | LM-9.1 | N61 Stacks | | NGC | 61 | 4775034-001 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | #VALUE! | 1 | 1 | 1 | |
| 9 | 16 | 1833 | LM-9 | 9 | LM-9.1 | N64 Stacks | | NGC | 64 | ? | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | #VALUE! | 1 | 0 | 1 | |
| 10 | 67 | 1833 | LM-9 | 9 | LM-9.1 | PCGS 66 | | PCGS | 66 | 37113210 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | #VALUE! | 1 | 0 | 1 | |
| 11 | 14 | 1833 | LM-9 | 9 | LM-9.1 | P58 Coinfacts | | PCGS | 58 | 36812371 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | #VALUE! | 0 | 1 | 1 | |
| 12 | 52 | 1833 | LM-9 | 9 | LM-9.1 | Raw 45 at GFRG | | Raw | 45 | n/a | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | #VALUE! | 1 | 1 | 1 | |
| 13 | 18 | 1833 | LM-9 | 9 | LM-9.1 | P58 Coinfacts | | PCGS | 58 | 12841792 | 0.5 | 0 | 0 | 0 | 0.5 | 0 | n/a | n/a | n/a | #VALUE! | 0 | 0 | 0 | |
| 14 | 3 | 1833 | LM-7 | 7 | LM-7.1 | NGC 58 Stacks ex Reiver | N58 HA ex Reiver | NGC | 58 | 656408-018 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 15 | 4 | 1833 | LM-7 | 7 | LM-7.1 | MS63 Stacks | | ? | 63 | | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 16 | 6 | 1833 | LM-7 | 7 | LM-7.1 | P63 Coinfacts Ted | | PCGS | 63 | 80588122 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 17 | 10 | 1833 | LM-7 | 7 | LM-7.1 | P63 Coinfacts | | PCGS | 63 | 13450838 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| 18 | 69 | 1833 | LM-7 | 7 | LM-7.1 | Glenn | | NGC | 63 | 1721311-069 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | n/a | n/a | n/a | |
| | 13 | 1833 | LM-7 | 7 | LM-7.1 | P62 Coinfacts | | PCGS | 62 | 47486100 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | n/a | n/a | n/a | |

MY DECISION MATRIX METRICS

The more frequent the occurrence, the sooner it happened

| Reverse Pickups: | DC base of IT? (Note 1) | DC rim to A1? | DC base of ED? (Note 2) | DC A1 to Scroll? |
|------------------|----------------------------|---------------|----------------------------|------------------|
| Sum: | 111 | 90 | 57 | 49 |

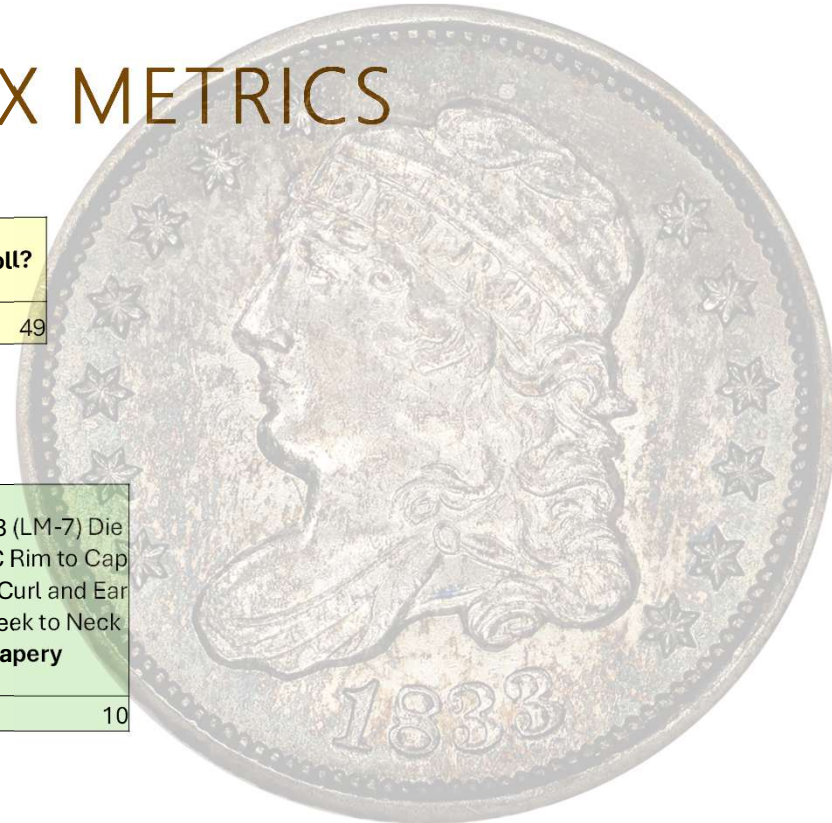
Remember: obverses deteriorate too...

1833 LM-7
used 1833
Obverse 3

| LM-7 Obverse Pickups: | 1833 Obv 3 (LM-7) Die State A: DC Rim to Cap thru B thru Curl and Ear | 1833 Obv 3 (LM-7) Die State B: DC Rim to Cap thru B thru Curl and Ear Across Cheek to Neck | 1833 Obv 3 (LM-7) Die State C: DC Rim to Cap thru B thru Curl and Ear Across Cheek to Neck to Drapery |
|-----------------------------|--|---|--|
| Sum: | 19 | 16 | 10 |

1833 LM-9
used 1833
Obverse 2

| LM-9 Obverse Pickups: | 1833 Obv 2 (LM-9) Die State C: DC star 3 to rim | 1833 Obv 2 (LM-9) Die State E: DC inner points of S3 - S4 | 1833 Obv 2 (LM-9) Die State F: DC outer points of S4 - S5 | 1833 Obv 2 (LM-9) Die State G: DC S5 to rim | 1833 Obv 2 (LM-9) Die State D: DC star 2 to rim |
|-----------------------------|--|--|--|--|--|
| Sum: | 56 | 52 | 56 | 54 | 20 |



DIAGNOSTICS (IF BOTH HAVE REMARRIAGES)

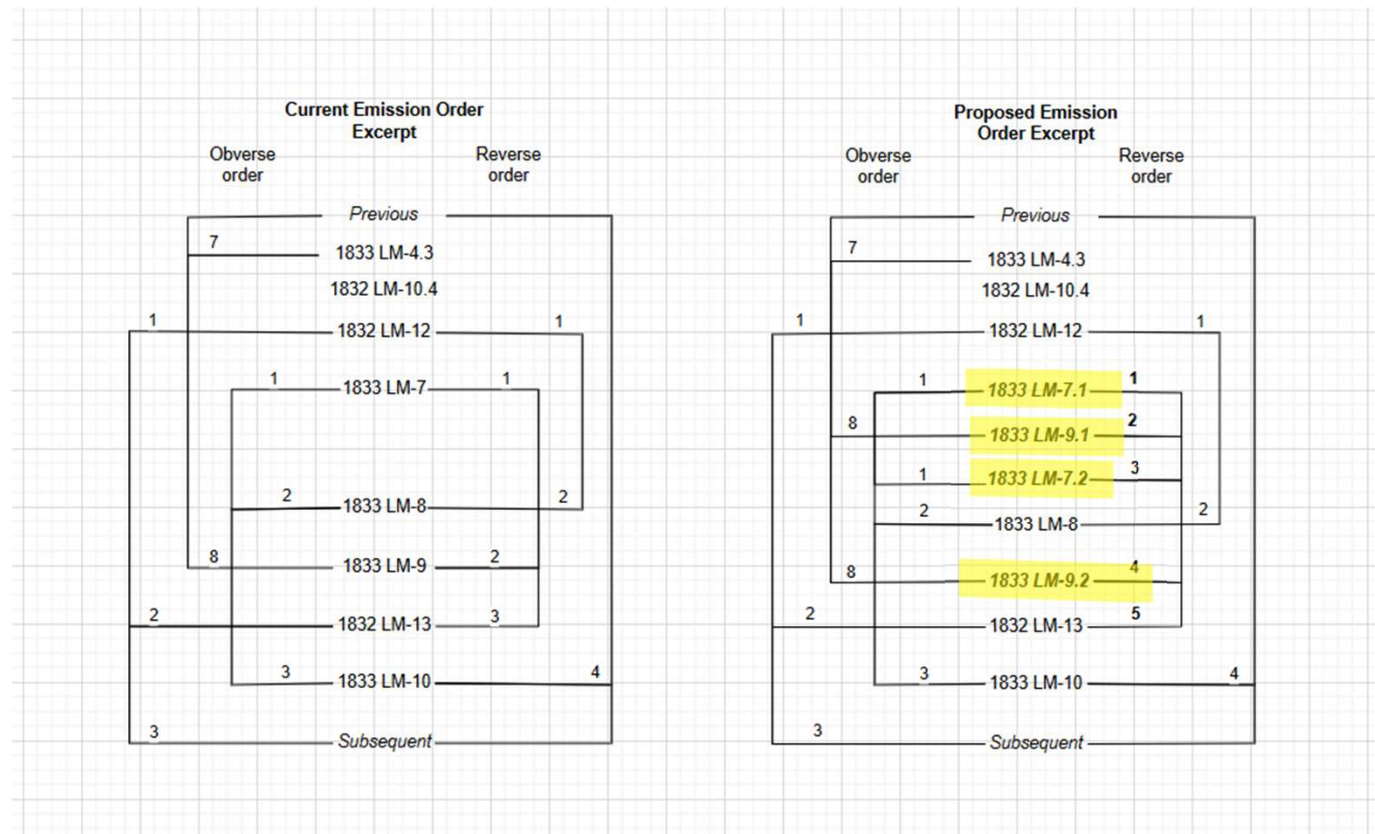
| | 1 st Use | 2 nd Use | 3 rd Use | 4 th Use | 5 th Use |
|----|---------------------------|---------------------|---------------------|---|--|
| | No Die Crack rim to A1 | No DC rim to A1 | DC rim to A1 | DC rim to A1; DC A1 to scroll forms | Crack rim to A1; DC A1 to scroll |
| #1 | 1833 LM-7.1 | 1833 LM-9.1 | 1833 LM-7.2 | 1833 LM-9.2 | 1832 LM-13 |

DIAGNOSTICS (IF ONLY LM-9 HAS A REMARRIAGE)

| | 1 st Use | 2 nd Use | 3 rd Use | 4 th Use |
|----|------------------------------|---|--|--|
| | No Die Crack rim to A1 | Starts with no DC rim to A1 – DC rim to A1 <i>forms</i> | DC rim to A1; DC A1 to scroll <i>forms</i> | Crack rim to A1; DC A1 to scroll |
| #3 | 1833 LM-9.1 | 1833 LM-7 | 1833 LM-9.2 | 1832 LM-13 |

WHERE DO THEY FIT IN THE OVERALL EMISSION ORDER?

Logan and McCloskey created a ladder chart for ALL marriages and remarriages.



Numbers on lines are *not* the names of the dies; they are the emission order numbers

A CAPPED BUST HALF DIME WORKING GROUP

COULD:

- VALIDATE ASSUMPTIONS IN MY ARTICLE
- DECIDE WHETHER 1833 LM-7 IS FIRST (HAS REMARRIAGE)
- FINALIZE EMISSION ORDER LADDER CHART
- ESTIMATE RARITY
- LOOK AT PROPOSALS MADE BY OTHER AUTHORS
- DOCUMENT CORRECTIONS TO THE BOOK
- PUBLICLY HOST THE MASTER LIST (FROM THE CENSUS, BUT ONLY EVERY 4 YEARS)
- *YOUR IDEAS HERE...*

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QUESTIONS?

(WHO WANTS TO BE
PART OF A WORKING
GROUP?)

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