

MINT **ERROR** NEWSTM MAGAZINE

Bringing the latest mint error news to the collector.
Also featuring Die Trials, Test Pieces, Numismatic Rarities,
Patterns, Currency Errors and Discoveries from the U.S. Mint.



minterrornews.com

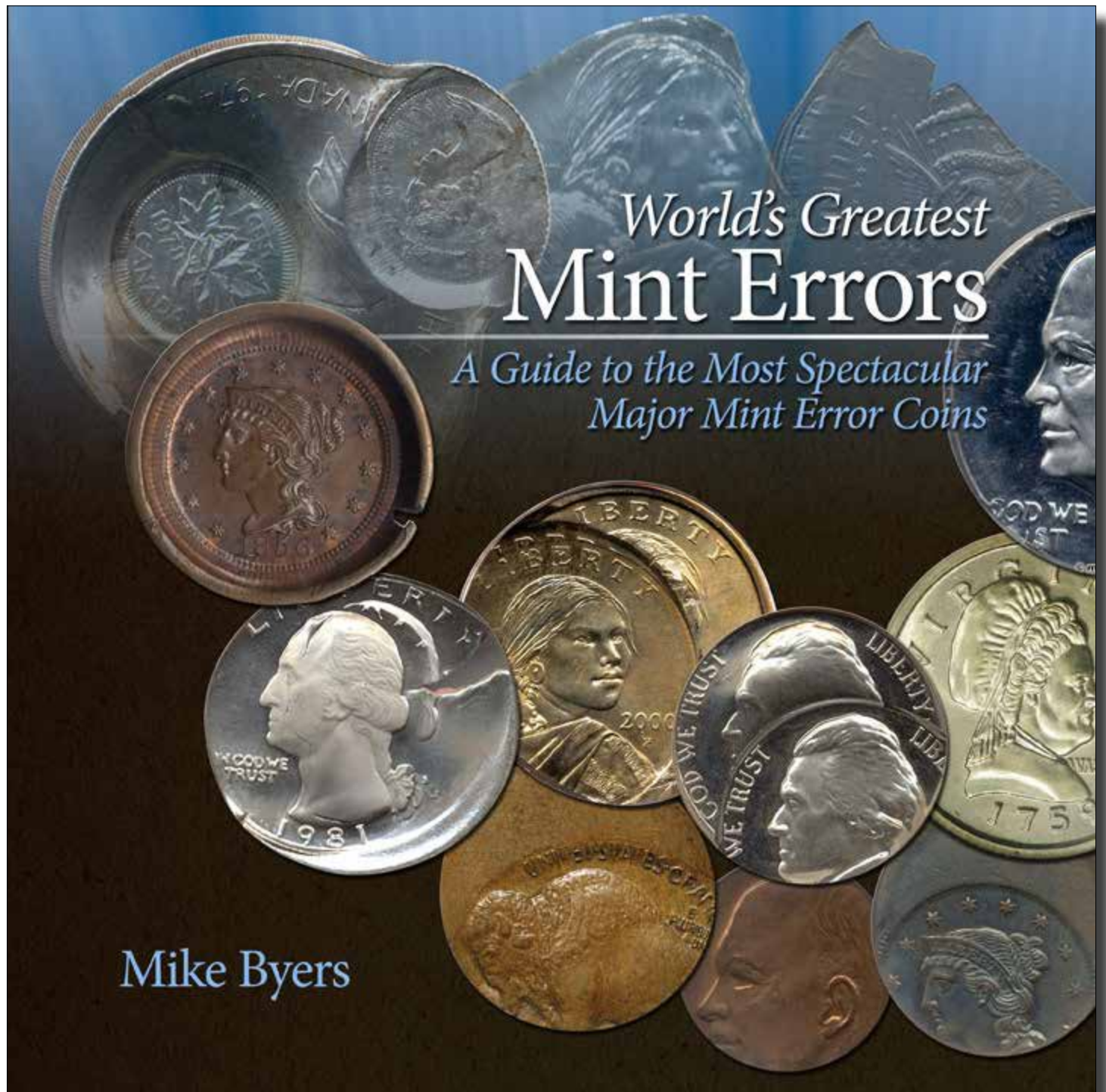
Unique World Off-Metal Mint Errors



21 Page
Price Guide
Inside!

Issue 87
A Mike Byers
Publication

Now Available From Amazon.com and Zyrus Press



MINT ERROR NEWS MAGAZINE



Issue 87

Publisher & Editor
Mike Byers

Production Editor
Sam Rhazi

Contributing Editors

Andy Lustig
Saul Teichman
Jeff Ylitalo
John Wang
Marc Crane
Greg Bennick

Contributing Writers

Heritage Auctions
Martin Wettmark
Mike Diamond
NGC

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Mint Error News Magazine

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MINT**ERROR**NEWSTM MAGAZINE

Bringing the latest mint error news to the collector.



Mike Byers, Publisher & Editor, Welcomes You!

Welcome to Mint Error News Magazine, bringing the latest mint error news and information to the collector. This is our 22nd year bringing you both an online PDF magazine and the Mint Error News website. There are over 1,500 articles, features, discoveries, news stories with mint error related info from the United States and around the World. Our website, minterrornews.com, has become the most popular and informative Internet resource for mint errors and is read by thousands of dealers and collectors.

Over the last 22 years with the advent of the internet millions of collectors have flocked to online auctions and dealer websites. Many people connect to various online forums and clubs to share knowledge and learn about Mint Errors. Everyone, including dealers, collectors and even investors have instant access to information as never before. The Mint Error market has experienced an explosion in collector interest over the last 22 years.

Time and again, rare and unique Mint Errors in the numismatic market have made headline news. Authentication and certification of Mint Errors is now commonplace. In 1991, ANACS was the first to authenticate, grade and encapsulate major Mint Errors. In 1999, PCGS and NGC began certifying Mint Errors. Major Mint Errors are now pursued, collected and traded just like patterns, territorial Gold, colonials and other interesting segments of numismatics.

In 1975, I purchased a 1900 Indian Head Cent struck on a \$2 1/2 Indian Gold blank planchet for \$7,750 at a major coin auction. That price ranked among the top five ever realized for a Mint Error that few dealers or serious collectors would even consider. At that time price guides for Mint Errors were nonexistent and today that Indian Head Cent struck in Gold is certified MS65 by PCGS and is valued at six figures.

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PUBLISHER & EDITOR

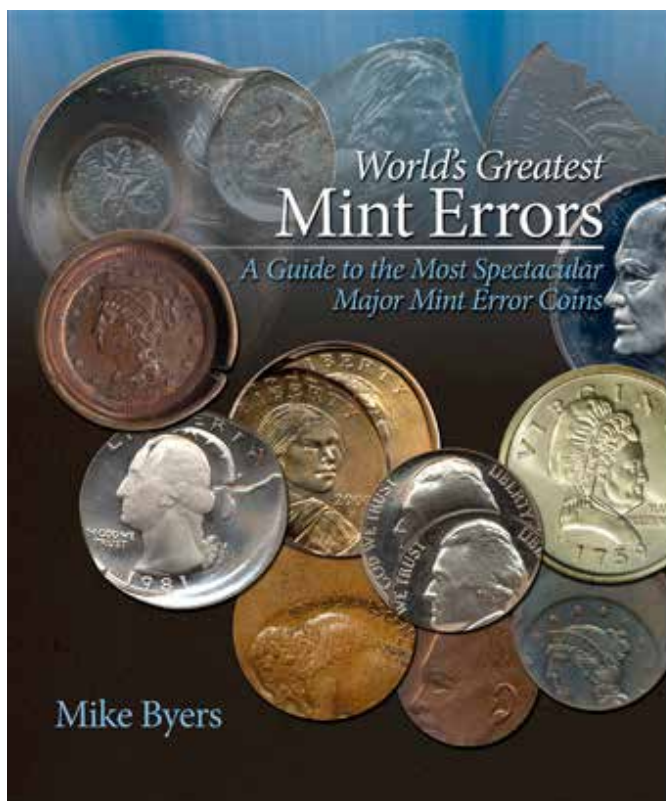


Mike Byers



Mike Byers (mikebyers.com) is president of Mike Byers Inc. He has been a professional numismatist for over forty years. He is one of the largest dealers handling U.S. Gold Coins, Patterns and Rarities certified by PCGS and NGC. He has handled major coin collections and attends every major coin convention. Mike Byers carries an extensive inventory as well as solicits want lists and is always looking to purchase fresh inventory and collections. You can visit Mike Byers and view his rarities at the ANA, Central States, FUN show and the Long Beach Coin Expo.

Mike Byers was a consultant to ANACS for Mint Errors from 2000 to 2006. He is also the Owner, Publisher and Editor of Mint Error News Magazine and the Mint Error News Website that was founded in 2003. In 2009, Mike Byers published his first book, *World's Greatest Mint Errors*, which received the NLG Award for Best World Coin Book and is available on Amazon. In 2016, Mike Byers was featured on Fox News in an interview with one of his unique mint errors.



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Mike Byers is the Publisher and Editor of Mint Error News. Consultants to Mint Error News are numismatic experts recognized worldwide including Heritage Auctions, Jim Stoutjesdyk, Dave Camire, Greg Bennick, Andy Lustig, Michael Faraone, Marc Crane, John Wang, Saul Teichman, Ron Guth, Jeff Ylitalo, Tom Caldwell, Fred Weinberg (retired), Christopher Talbot Frank, Steven Contursi, Silvano DiGenova, Brian Hodge, Joe Cronin, Allen Rowe, Ian Russell and Jim Gately.



Jim Stoutjesdyk

**Expert on U.S. Coins, Unique Items,
Patterns and Mint Errors**

Vice President of Heritage Rare Coin Galleries



Dave Camire

Expert on Mint Errors, Patterns and Die Trials

NGC Modern World Coin Grader and Finalizer
President of Numismatic Conservation Services (NCS)
NGC Mint Error Expert



Greg Bennick

**Expert on Mint Errors and
Trends in the Error Market**

Professional Keynote Speaker, Author
and Board Member of CONECA



Andy Lustig

Expert on Mint Errors, Patterns and Die Trials

Co-Founder of the Society of U.S. Pattern
Collectors (uspatterns.com)



Mike Faraone

Expert on Mint Errors, Patterns and Die Trials

Owner of Mike Faraone Rare Coins
Former Grader for PCGS and ANACS



Marc Crane

Expert on Mint Errors, Patterns and Die Trials

President of Marc One Numismatics, Inc



John Wang

Expert on Mint Errors and Patterns

Founder and Editor at PrivateMintNews.com



Saul Teichman

Expert on Mint Errors, Patterns and Die Trials

Co-Founder of the Society of U.S. Pattern
Collectors (uspatterns.com)



Ron Guth

Expert on Patterns and Die Trials

Former PCGS President
Former CoinFacts President
Proprietor of GermanCoins.com



Jeff Ylitalo

Expert on Mint Errors

Former Editor for the ErrorScope

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Tom Caldwell

Expert on Mint Errors and Patterns

Founder of Northeast Numismatics



Fred Weinberg

Expert on Mint Errors and Die Trials

Former PCGS Consultant for Mint Errors



Christopher Talbot Frank

Expert on Modern & Dramatic
Major Mint Errors

Owner of CTF Error Coins



Steven L. Contursi

Expert on U.S. Patterns

CEO of Rare Coin Wholesalers



Silvano DiGenova

Expert on Patterns and
Unique & Esoteric U.S. Coinage

Founder and President of Tangible Investments



Brian Hodge

Expert on Specimen Coinage
and Unique U.S. Coins

Partner and the President of Numismatics
at Minshull Trading



Joe Cronin

Expert on Mint Errors and Counterfeit/Altered
Coins Made To Resemble Genuine Errors

Author of *Mint Errors to Die For*



Allen Rowe

Expert on Morgan and Peace Dollar Errors,
Especially From The Carson City Mint

Owner of Northern Nevada Coin



Ian Russell

Expert on Error Coins and Patterns

President and Co-Founder of GreatCollections



Jim Gately

Expert on 20th Century U.S. Coinage
With an Emphasis on Buffalo Nickels

Owner of the #1 Ranked PCGS
Registry Set of Buffalo Nickels

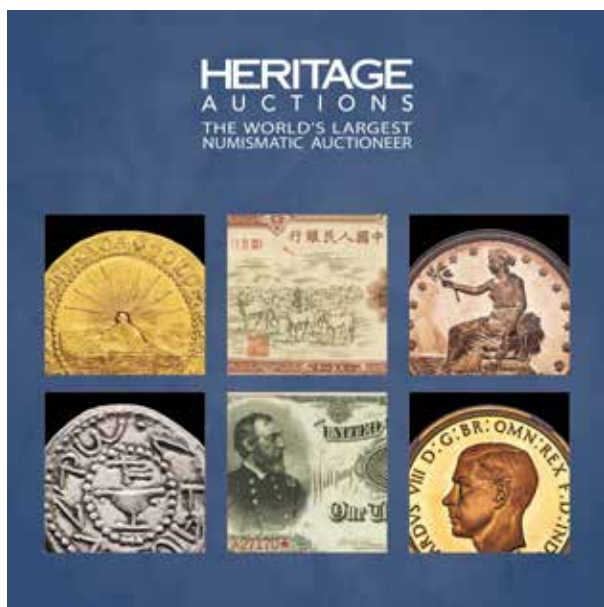
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Jim Stoutjesdyk

Jim Stoutjesdyk was named Vice President of Heritage Rare Coin Galleries in 2004. Since coming to Heritage in 1993, Jim has assumed a wide variety of responsibilities. He initially was hired as the Gallery Manager for Heritage's retail showroom. For several years he helped to develop Heritage's retail clientele and placed millions of dollars worth of rare coins with collectors. Jim's interest turned to wholesale trading and he quickly became a familiar face at coin shows across the nation. As Vice President, Jim's duties include buying and selling millions of dollars worth of rare coins each month, pricing all of the new coins available for sale each day, and overseeing the daily operations of the rare coin department. In 2019 the American Numismatic Association awarded Jim the very prestigious Doctor of Numismatics honorary degree.

Jim Stoutjesdyk is a Consultant to Mint Error News for U.S. Coins, Unique Items, Patterns and Mint Errors.



Heritage Auctions is the largest collectibles auctioneer and third largest auction house in the world, as well as the largest auction house founded in the U.S. We are also the undisputed Internet leader in our field, with more than 1.75 million online bidder-members registered on HA.com from all 195 countries. This loyal and growing community of collectors is a testament to the usefulness of our website, our reputation for professional business practices and our vast expertise in the field of art and collectibles.

Established in 1976, Heritage offers a wide range of U.S. & World Coins, Rare Currency, Fine & Decorative Art, American Art, Illustration Art, Modern & Contemporary Art, Urban Art, Comic Books & Comic Art, Movie Posters, Entertainment & Music Memorabilia, Jewelry & Timepieces, Luxury Handbags, Sports Collectibles, Historical & Political

Memorabilia, Rare Books & Manuscripts, Ethnographic Art, & Space Exploration Memorabilia, Civil War Memorabilia, Photographs, Nature & Science, Fine and Rare Wine, Luxury Real Estate, Pop Culture Collectibles, and more.

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Dave Camire is considered an authority on modern minting technology and production, specializing in mint errors and Chinese coins. He has visited many mints, both domestically and internationally, which is not only insightful but useful in his role as NGC Modern World Coin Grader and Finalizer. His knowledge of the minting process is helpful in distinguishing mint defects from damaged coins and establishing a coin's authenticity and grade.



Dave Camire

Dave co-authored *100 Greatest U.S. Error Coins* and has contributed to such numismatic publications as *Coin World* (honored with being listed as one of the 100 Most Influential People), *COINage*, *Numismatic News*, *The Numismatist* and the *Red Book*. He has been featured on National Public Radio (NPR) and seen on *Good Morning America* and the *Discovery Channel*.

Dave is also President of Numismatic Conservation Services (NCS). With his knowledge and expertise in coin conservation, he has been an active volunteer at the Smithsonian Institution's Museum of American History, helping to preserve the National Numismatic Collection and establishing key numismatic displays at the museum. A collector at heart, he has been collecting since he was 13 years old.

Dave Camire is a Consultant to Mint Error News for Mint Errors, Patterns and Die Trials.



Mike Faraone

Mike Faraone is the owner of Mike Faraone Rare Coins in Las Vegas, Nevada. He previously was a grader at PCGS for 12 years after 11 years at ANACS.

He has taught grading at the ANA Summer Seminar for twenty years. Mike has lectured on Mint errors and Counterfeit protection at numerous coin shows across the country. He is a previous president of the National Silver Dollar Roundtable and served as editor of the NSDR Journal for over twenty years. Mike can be reached via e-mail at: mfaraone@hotmail.com.

Mike Faraone is a Consultant to Mint Error News for Mint Errors, Patterns and Die Trials.

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Greg Bennick

Greg Bennick is a collector and researcher of major mint errors and has been actively involved in the hobby since 1981 when he made his first major error purchase, a Liberty nickel on a cent planchet, at the age of ten.

Greg attends coin shows nationwide buying and selling major mint errors. He is the co-instructor for the week-long class “Modern Minting Process/U.S. Minting Errors and Varieties” at the American Numismatic Association Summer Seminar in Colorado Springs, CO.

A professional keynote speaker on the topic of Build a Better Now® for the corporate and association markets (gregbennick.com) Greg writes for multiple print outlets on major errors. He maintains an extensive personal library of error-related books, pamphlets, magazines, and ephemera going back to the dawn of the hobby in the 1950's.

Greg is a board member of CONECA, and focuses his study on major US and Canadian error coins, significant ancient and world errors, and the minting process.

Greg Bennick is a consultant to Mint Error News for Mint Errors and trends in the error market.



Marc Crane

Marc Crane is a dealer specializing in rare U.S. coins and U.S. patterns. He started Marc One Numismatics, Inc. in 1991. He is a member of the PNG (#565).

Marc tied for 1st place in a PCGS grading contest and is considered a world-class grader and authenticator. He is a contributor to the Red Book and is permanently listed in the pattern section. His coin store in Rancho Mirage, CA is open to the public and he regularly attends coin shows and auctions across the country.

Marc Crane is a Consultant to Mint Error News for Mint Errors, Patterns and Die Trials.

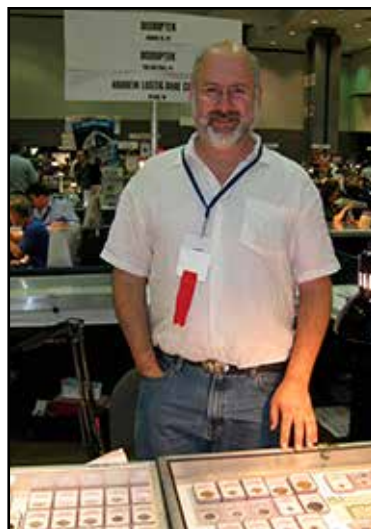
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Andy Lustig has been dealing in U.S. and World Coins since 1975 and has attended more than 2,000 coin shows and auctions.

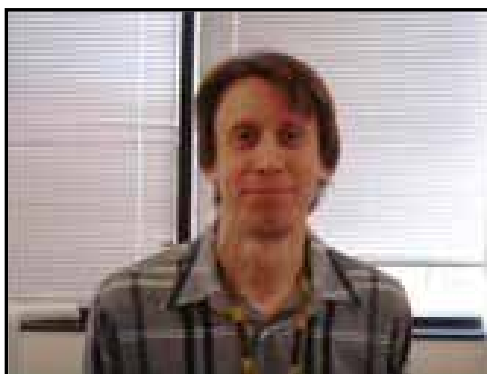
Andy is the co-founder of the Society of U.S. Pattern Collectors (uspatterns.com). He has been a member of the Professional Numismatists Guild (PNG #614) since 2005. He is a member of NGC and was also a former grader and authenticator for PCGS.

Andy was a speaker at the annual CSNS convention, presenting "Collecting Pattern Coinage." Andy was a major contributor to the 8th Edition of the Judd book.

Andy Lustig is a Consultant to Mint Error News for Mint Errors, Patterns and Die Trials.



Andy Lustig



Saul Teichman

Saul Teichman is a co-founder and primary contributor/editor of the Society of U.S. Pattern Collectors (uspatterns.com) as well as contributor to the 8th Edition of the Judd book and Andrew Pollock's *United States Patterns and Related Issues* as well as many other books. He has been collecting primarily off-metal U.S. Mint errors for over 20 years and maintains extensive pedigree information for many error issues which have been published here in the past.

Saul Teichman is a Consultant to Mint Error News for Mint Errors, Patterns and Die Trials.

Rare Coin Wholesalers has the largest inventory of U.S. Rare Coins.

Founded in 2001, Rare Coin Wholesalers has transacted over \$2 billion in U.S. rare coin business and is a recognized leader in acquiring, managing, and selling U.S. rare coins positioned for wealth preservation and capital growth.

Steven L. Contursi is a Consultant to Mint Error News for U.S. Patterns.



Steven L. Contursi

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Jeff Ylitalo

Jeff Ylitalo has collected Mint Error coins since 1993. He has avidly researched & written about this area of numismatics since 2006 contributing dozens of articles to CONECAs bi-monthly publication ErrorScope and Mint Error News. Jeff is the former editor for the ErrorScope 2008-2017.

Jeff's research and collecting focus is now primarily centered on World Error coins. Jeff can be reached via e-mail at: jylitalo@yahoo.com.

Jeff Ylitalo is a Consultant to Mint Error News for Mint Errors.

John Wang is an avid numismatic researcher and collector. His research focus is on absolute rarities including patterns, mint errors and exonomia, with particular interest in coin census, pedigrees, coin designers and minters. A historian at heart, John enjoys tracing coins and people through time.

John writes for Mint Error News, the So-Called Dollar Fellowship and Wikipedia. He is also a top contributor to Collectors Universe Message Forums. Beyond writing, John enjoys creating coins, including co-creating a 2021 Morgan Dollar commemorative with Moonlight Mint, and inspiring a Frank Gasparro Liberty Dollar pattern design commemorative with Grove Minting Company. A collector at heart, John maintains a set of So-Called Dollar rarities in the PCGS Set Registry. John is founder and editor at PrivateMintNews.com.



John Wang

John Wang is a Consultant to Mint Error News for Mint Errors and Patterns.



Fred Weinberg

Fred Weinberg is a highly respected numismatist, with 40 years of full time experience in the rare coin marketplace.

He deals in numismatic United States Gold & Silver coinage, as well as specializing in buying & selling Major Mint Error coinage of all types.

He is one of the original 31 dealers selected as an authorized PCGS (Professional Coin Grading Service) dealer at it's inception in 1986.

Fred Weinberg has now retired and was a Consultant to Mint Error News for Mint Errors and Die Trials.

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Christopher Talbot Frank is an error coin dealer of over 25 years and is doing business as CTF Error Coins. Christopher specializes in superior eye appealing error coinage with a wide variety of dramatic specimens. He has an artistic background as a professional photographer and now specializes in high end numismatic photography. Christopher handpicks every coin in his inventory based on eye appeal first and rarity second.

Chris's 800 plus certified coin inventory is basically an error coin type set in many dates and denominations. Although he carries all error types and dates, he specializes in mint state modern and the very rare ultra modern (2002-present) error coins. Christopher has authored many articles on error coins for Mint Error News over the last few years.

Christopher Talbot Frank is a consultant to Mint Error News for modern and dramatic Major Mint Errors.



Christopher Talbot Frank



Ron Guth

Ron Guth is a recognized authority on United States and German coins. He is a licensed Certified Public Accountant who has been involved professionally in numismatics for over fifty years as a collector, dealer, researcher, and writer. His books and articles have earned numerous awards, including the American Numismatic Association's Heath Literary award and the Olga & Wayte Raymond awards, the Numismatic Literary Guild's Best Numismatic Investment Book and Best Book of the Year awards, and the Professional Numismatic Guild's Best Book of the Year award. In 2003, Ron received the prestigious President's Award from the American Numismatic Association in recognition of his numerous contributions to numismatics. In 2021, Coin World named Ron as one of the Top Ten Most Influential People in Numismatics for the sixty-year period from 1960-2020.

Ron created the CoinFacts website (now PCGS CoinFacts) in 1999 and sold the website to Collectors Universe in 2004 (where it is now presented as PCGS CoinFacts). Ron served in various capacities at Collectors Universe, including Director of Numismatic Research, President of the Professional Coin Grading Service, and President of PCGS CoinFacts.

Currently, Ron serves as proprietor of GermanCoins.com and as Chief Investigator at the Numismatic Detective Agency, where he provides expert provenance on high-end coins. Ron Guth is a Consultant to Mint Error News for Patterns and Die Trials.

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Tom Caldwell founded Northeast Numismatics over 50 years ago. In the years that have elapsed since 1964, Tom has proven his expertise in every area of US coinage, from rare colonials and patterns to high grade proof type and gold.

In addition to being an ANA life member since 1972 (#1318) and a member of the Professional Numismatists Guild (PNG), Tom is a life member of the Society for US Commemorative Coins, the Central States Numismatic Society, Florida United Numismatists, the Numismatic Association of Southern California, as well as other regional and national organizations. He has attended every major coin show and auction since the late 1960s, and can often be seen at shows out for a run in the early morning (he has completed several marathons).



Tom Caldwell

Tom Caldwell is a Consultant to Mint Error News for Mint Errors and Patterns.



Joe Cronin

Joe Cronin is currently a History teacher, a former U.S. Treasury Department law enforcement officer, and has been a coin collector for over thirty years. Within the last ten years he has focused more on Mint errors, and also fake and altered coins made to resemble genuine errors.

He is the author of the popular error reference book, *Mint Errors to Die For*, has written articles for CONECA's *Errorscope*, and is the creator and moderator of the Facebook® page, "Joe Cronin's Mint Errors Explained." Joe often attends coin shows in the Western N.Y. area with educational tables on Mint errors and Henning nickels. Feel free to contact Joe at jcro57@yahoo.com.

Joe Cronin is a consultant to Mint Error News for Mint Errors and Counterfeit/Altered coins made to resemble genuine errors.

Brian Hodge is a Partner and the President of Numismatics at Minshull Trading. Over the last three decades years they have been a leader in the numismatic industry and have grown into a formidable market maker, garnering the respect of every major market player.

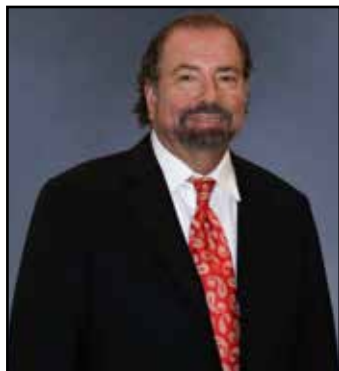
He is a member of every major numismatic organization in the country, including PNG, ICTA, FUN, CSNS, and a life member of the ANA. He is a regular Red Book contributor and maintains consistent and up-to-date pricing to sustain healthy markets.



Brian Hodge

Brian Hodge is a consultant to Mint Error News for Specimen Coinage and Unique U.S. Coins.

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Silvano DiGenova

Tangible Investments founder and president Silvano DiGenova is an authority on the rare coin market, grading, authenticity, and appraisals. In fact, since Silvano co-founded the renowned Professional Coin Grading Service (PCGS) and designed the PCGS coin grading standards, you could actually say he wrote the book on coin grading.

Millions of collectors and investors depend on Silvano DiGenova's expertise every day. He has been featured in Fortune Magazine's "People to Watch," quoted on the front page of The Wall Street Journal, interviewed in hundreds of U.S. newspapers, and has appeared several times as a commentator on CNN, FNN, CNBC, the Discovery Channel, the History Channel, and more.

Silvano DiGenova is a consultant to Mint Error News for Patterns and Unique & Esoteric U.S. Coinage.

Allen Rowe is the owner of Northern Nevada Coin, which specializes in buying silver dollars, gold coins, Carson City coins, gold scrap, complete collections, estates, hoards, investment holdings, coins, silver bullion, gold billion, and rare paper money from collectors, investors, and other coin dealers. He has been buying gold in Carson City, Reno, Sparks, Minden, Gardnerville, Lake Tahoe, Fallon, Virginia City, and northern Nevada since 1993.



Allen Rowe

An interesting array of dollar errors is currently available to be viewed on Northern Nevada Coin's website brokencc.com. The gallery includes several off-center Morgan dollars, a broadstruck Morgan, a spectacularly broadstruck Peace dollar, an example of a rotated reverse, a blank silver dollar planchet, and the Amazing Broken CC.

Allen Rowe is a consultant to Mint Error News for Morgan and Peace Dollar Mint Errors, especially mint errors and rarities from the Carson City Mint.

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Ian is president and co-founder of GreatCollections Coin & Paper Money Auctions. From a young age, Ian was interested in collectibles and started working on weekends for a stamp dealer in Sydney, Australia at age 14. From there he learned about auctions at Stanley Gibbons Australia, personally handling many important sales including the Purcell Collection of Kangaroo and Map Series, the Mackey Collection of Australian States/Pacific Islands and the Morrison Hill China Collection. Ian also put together the company's first paper money auction featuring one of the finest New Zealand bank note collections ever formed.

Ian is a member of the prestigious Professional Numismatists Guild, member 785 and abides by the PNG Code of Ethics. In 2021, CoinWorld Magazine named Ian one of the most influential people in numismatics. Contact Ian Russell at ian@greatcollections.com.



Ian Russell

Great Collections holds the record auctioning the famous \$1 Sacagawea obverse muled with a Quarter reverse for \$194,062.50.

Ian Russell is a consultant to Mint Error News for Error Coins and Patterns.



Jim Gately

Jim Gately is the owner of the #1 ranked PCGS registry set of Buffalo Nickels. He also has other registry sets with PCGS.

He purchased the unique 1913 Gold Buffalo Nickel from Mike Byers for \$400,000 and proudly included it in his set.

Jim is an expert on 20th Century U.S. coinage with an emphasis on Buffalo Nickels. He is a consultant to Mint Error News for Double Dies and Overdates.

UNIQUE WORLD OFF-METAL MINT ERRORS

UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET

by Mike Byers (mikebyers.com)



UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET

This is a discovery coin and is unique. It is a Bolivia 1942 50 Centavos struck at the U.S. Mint in Philadelphia on a U.S. Wartime Nickel planchet!

In 2009, Mint Error News reported this discovery in an article written by Timothy D. Ziebarth, Ph.D., who discovered this unique off-metal. The article describes the fascinating path that he had to take in order to get it properly attributed by NGC.

Originally it was misattributed by Heritage Auctions as part of a 3-coin lot of raw Bolivian coins in their 2007 sale of the Whittier Collection. When it was first submitted to NGC, it was also misattributed, this time as struck on a Bolivia 20 Centavos planchet.

Dr. Ziebarth then spent the next year researching this mint error. He analyzed the Mint Error News article *Foreigner's In The Mint* which included a 69 page report on foreign coins struck by the U.S. Mint. He attended multiple coin shows, asking dealers for their opinions. David Lange, the research director for NGC, assisted him with

information. Ken Krah, the Vice President of NGC (at the time) accepted the submission from Dr. Ziebarth and proceeded to conduct a non-destructive Semi-Quantitative X-Ray analysis to determine the composition.

This is one of the most interesting numismatic stories about how a unique mint error, that was previously unknown and misattributed twice, is now recognized as being Struck on a U.S. Wartime Nickel Planchet. It is unique and a fascinating part of numismatics.

Wartime Mint Errors from 1942-1945 are among the most coveted and sought after by mint error collectors. Obviously the most famous are the 1943 copper Lincoln Cents that sell for \$300,000 and the 1944 steel Lincoln Cents that sell for \$50,000 to \$100,000. Even a 1943 Lincoln cent struck on a Curacao 25 Centstukken planchet sold in a Heritage auction for \$31,200. There are only a handful of world coins struck on U.S. planchets known during this wartime period. This Bolivia 50 Centavos struck on a U.S. Silver Wartime Nickel Planchet is unique.

The lab results concluded that this unique mint error was indeed struck on a U.S. Wartime Nickel Planchet and NGC subsequently revised their description.

Lab Analysis:

Copper: 57.5%

Silver: 36.3%

Rhodium: 5.7%

Iron: 0.4%

UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET



UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET



UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET

*Here is the original article by Dr. Ziebarth
that appeared in Mint Error News Issue 27:*

STORY OF THE BOLIVIA 1942 50 CENTAVOS STRUCK AT THE PHILADELPHIA MINT ON US WARTIME NICKEL PLANCHET

BY TIMOTHY D. ZIEBARTH, PH.D.
ANA# 3130037

I am an advanced collector of Foreign Coins Minted at United States Mints. Of the approximately 950 issues (not counting varieties) for 41 countries that have been minted by US Mints in Philadelphia, San Francisco, Denver, New Orleans and West Point since 1875 as authorized by the Act of Congress January 29, 1874, I have managed to add to my collection all but 31, 11 of which are modern (post 1964) and 7 of which may not exist, leaving 13 yet to find. Most examples in the collection are high-grade, including several of the finest known.

In 2006, Heritage offered a number of fine and rare examples of these coins in their June 2 Whittier Collection of Latin American Coinage, Auction

#410. Included in that auction was Lot# 16308 of 3 raw coins, whose description read:

“Republic 50 Centavos 1942 - Three Varieties, KM182a.1, original strike in bronze, nice BU and original strike in silver, choice BU and the only reported example, and KM182a.2, restrike with less distinct strike, nice BU.

Having both bronze issues, the KM182a.1 “original” (meaning Philadelphia) and the KM182a.2 LaPaz minted restrike, in my collection was appealing especially because they appeared to be very high grade. The “original strike in silver, choice BU and



UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET

the only reported example” was intriguing: Krause lists only one Pattern as “Pn57 1942 — 50 Centavos. Silver. Struck at LaPaz. KM#182a.1”, and I assumed this was perhaps that coin.

I won the Lot, and instructed Heritage to have these coins sent directly to NGC for certification, as many of the already certified coins in the auction were encapsulated with the “Whittier Collection” attribution on the slab label, and I wanted the same labeling on these coins.

When I received the coins from NGC, I was surprised to find that both bronze examples were in fact Philadelphia minted; both had plain edges. (The LaPaz restrike has a reeded edge.) I was even more surprised to see the “silver” example labeled “1942 4.9G Bolivia 50C Struck ON 20C PLANCHET MINT ERROR MS65”.

While I was delighted with the grade of MS65, I was somewhat disappointed that this coin was apparently a Copper-Nickel planchet error, and not the anticipated silver Pattern coin KM-Pn57.

Over the course of the next year, I looked at the coin a number of times and was continually struck by the color; it appeared much more brilliant and “silvery” than any C/N alloy coin I had ever seen. Referring to Greg Mirsky’s wonderful work on mint errors caused by having both Foreign and Domestic coins being made in the same US Mint at approximately the same time (see Mint Error News Magazine, Vol I, Issue II, page 16), and Krause World Coins 2006 Edition, it was apparent that something about NGC’s attribution of this coin was amiss. There was no “20C” (I assumed NGC meant “cent”, “centavo”, “centesimo” or perhaps “centime”) or any other denomination produced for any Foreign Country within several years of 1942 that had a 4.9 gram C/N planchet.

I took the coin (now NGC slabbed) to the CSNS Show in St. Louis in May, 2007 and showed it to a number of error dealers, including Fred Weinberg.

I asked each one two questions: 1. had they ever seen a coin like this one, and 2. did the coin appear to be Copper-Nickel alloy, or Silver. The responses to 1. were unanimously “NO”, and to the second question I received about a 50:50 split between C/N and Silver.

At the same show, I presented the coin to Mr. David Lange, Research Director, who was representing NGC at their booth. He agreed something may be amiss; the coin appeared clearly to be struck on an undersized planchet, and that the planchet did not appear to be Copper-Nickel. Mr. Lange suggested I contact NGC directly and have them re-look at the coin.

On the flight back to Denver, I was still mulling over the problem when that proverbial “light bulb” went on. I had looked extensively at what other Foreign planchets may have been floating around



UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET

the Philadelphia mint in 1942 (and for years before that, as an old planchet may have been lost in the machinery for years), but I had NOT looked at what US coins may have been on-site at the time. A quick look at the Redbook told me all I needed to know: of course we were minting 5 cent coins containing the “War” alloy of 56% copper, 35% Silver and 9% Manganese. Precisely a 5 gram planchet with a “not C/N and not Silver” appearance! The Bolivia 1942 50 centavo coin was specified to be minted with a 5.5 gram, 24.3 mm diameter planchet whereas the US War nickel used a 5.0 gram planchet with a 21.1 mm diameter.

Working directly with Ken Krah, Vice-President of NGC, via Email, I was invited to send him the coin directly. I described the issue to him, and my suspicion that in fact the coin was struck on a War Nickel planchet, and requested that NGC perform non-destructive analysis of the coin to perhaps solve the mystery. This they promptly did, with the Semi-Quantitative X-Ray analysis by Ledoux & Company of Teaneck, NJ coming back as:

Copper:	57.5%
Silver:	36.3%
Rhodium:	5.7%
Iron:	0.4%

Although the reported content of Rhodium and Iron might be disconcerting, being a Chemist and having managed an independent testing laboratory myself in the 1970's, I knew that this type of analysis was a) truly semi-quantitative (a few % error was not unusual without a known equivalent alloy as a reference), and b) mis-assignment of minor elements is common due to overlapping emissions from major elements. The key results were, of course, that the alloy was principally Copper and Silver, and not Copper and Nickel, in the proper proportions for the US Wartime 5 cent issues. To put a final “nail in the coffin”, I may elect to ask Ledoux to re-inspect their X-Ray results to see if in fact the Rhodium/Iron identification could have been misconstrued from and actual Manganese component, or I may send them an actual US War Nickel to see if the same

mis-assignment for these two minor compositional elements is made.

Nonetheless, NGC agreed with this overall conclusion, and re-encapsulated the coin with its proud new attribution as:

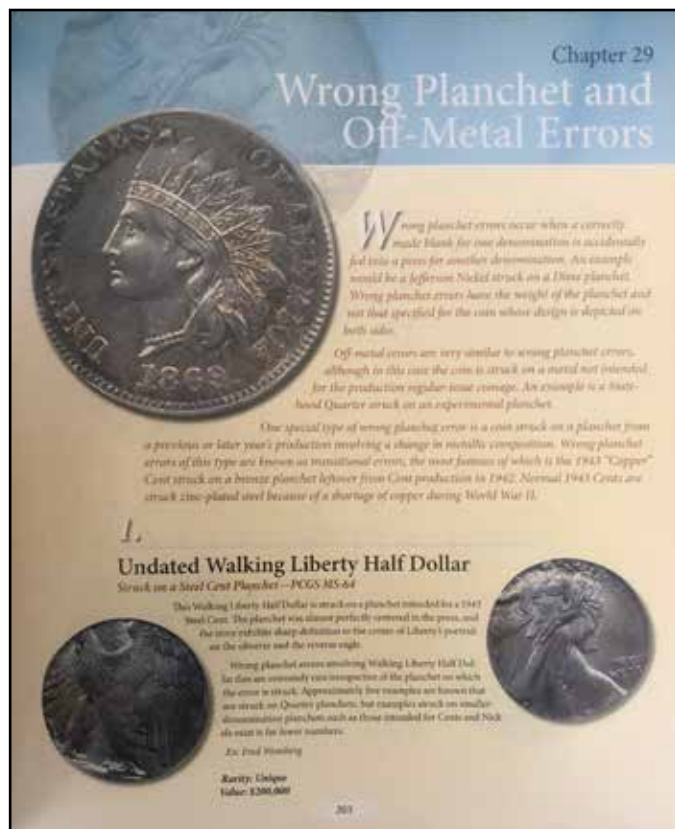
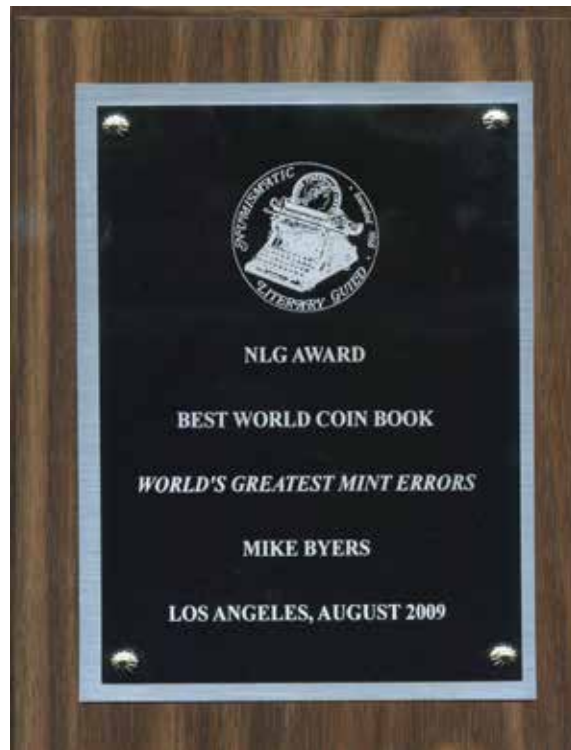
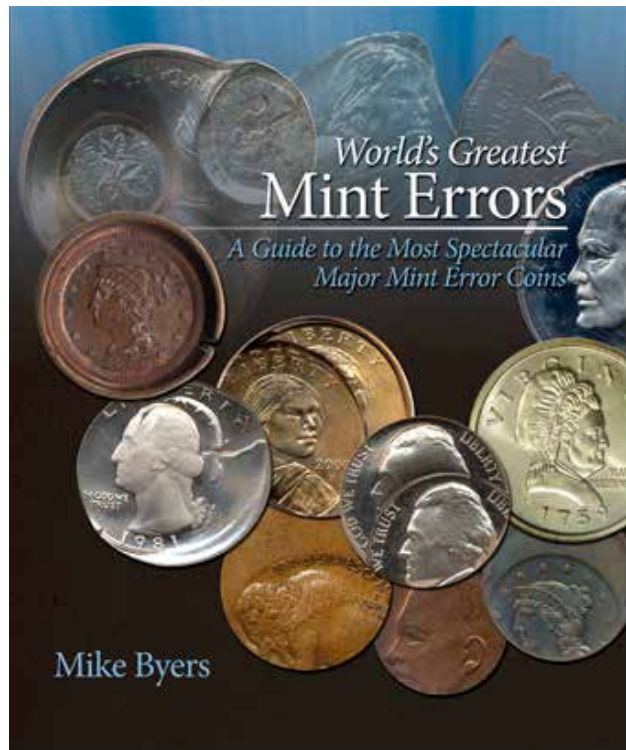
1942 BOLIVIA 50C
ON US 5C BLANK 4.9G
MINT ERROR MS 65
WHITTIER COLLECTION

It stands as the only, and therefore finest known example, of error. This unique coin now hold a prominent place in my collection. I learned that tracking down a proper attribution for an error coin can be stimulating, fun and rewarding, that it takes dogged perseverance, but that sometimes even the experts need help from private collectors. It's truly a grand experience, pleasure and privilege when even an avid collector can actually act and feel like a numismatist. Error collecting presents this opportunity at almost every turn!



UNIQUE BOLIVIA 1942 50 CENTAVOS STRUCK ON A U.S. WARTIME NICKEL PLANCHET

Wrong Planchet and Off-Metal Errors are featured in my NLG award winning book, *World's Greatest Mint Errors*.



UNIQUE CANADIAN OLYMPIC COMMEMORATIVE OFF-METAL MINT ERROR

by Mike Byers (mikebyers.com)

*Struck on Experimental Silver Planchet
Intended for Uniface Essay Trial Strikes*

This 1974 Canada \$5 Commemorative for the Montreal Olympics is a unique off-metal mint error. As noted on the PCGS insert, it was struck on

a planchet with a silver fineness of 34%. The remaining composition is 65% nickel and 1% copper. The planchet was burnished or has an experimental finish.



UNIQUE CANADIAN OLYMPIC COMMEMORATIVE OFF-METAL MINT ERROR

It lacks the luster of the regularly issued commemorative in .925 (sterling) silver. It was accidentally struck as a mint error on a leftover planchet which was used by the Royal Canadian Mint for the essay trial strikes. In addition to being the only known off-metal mint error in the entire Montreal Olympics Commemorative series, being struck on an experimental silver essay planchet places it in a league of its own.

Essai (essay) is the term for a trial, pattern, and experimental strike of

a design that may, or may not, be adopted. Essays are often uniface test pieces.

The Royal Canadian Mint issued 28 commemorative sterling silver coins to help finance the hosting of the 1976 Summer Olympics in Montreal. There were seven series of coins with specific design concepts: geographic, Olympic motifs, early Canadian sports, Olympic track and field, Olympic water sports, Olympic team and body contact sports, and Olympic motifs. There was a single series of four coins



UNIQUE CANADIAN OLYMPIC COMMEMORATIVE OFF-METAL MINT ERROR

issued in 1973 and two series each issued in 1974, 1975, and 1976. Each series included two designs used on

\$5 and \$10 silver coins. The obverse of all the coins features the bust of Queen Elizabeth II.

The 1974 \$5 Montreal Summer Olympic Commemorative coin featuring rowing was issued in 1974 with a mintage of 1,990,570. The composition is 92.5% Silver (sterling) and 7.5% Copper with a weight of 24.3 grams, a diameter of 38 mm and a thickness of 2.4 mm. It was struck in proof and mint state.



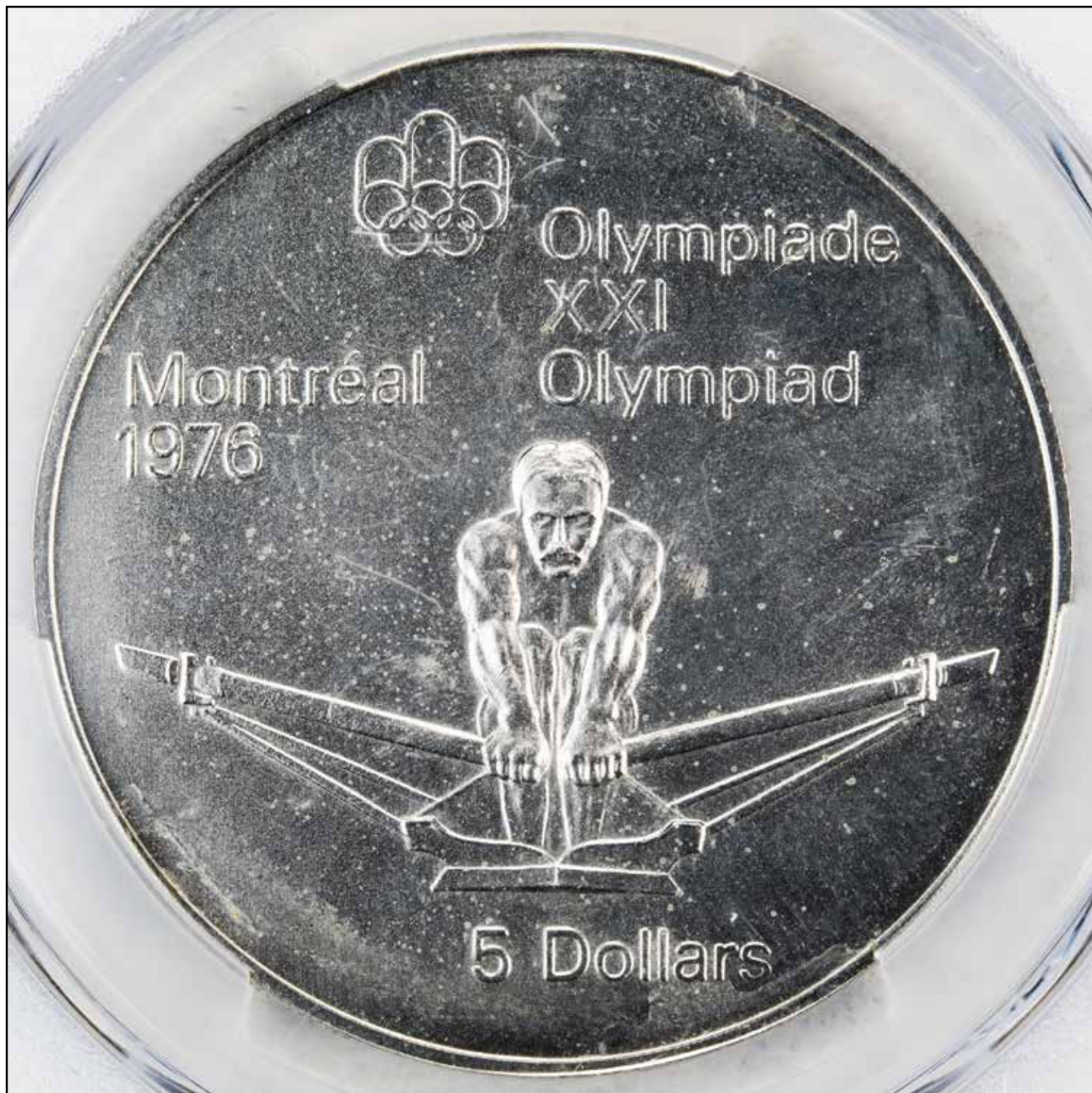
UNIQUE CANADIAN OLYMPIC COMMEMORATIVE OFF-METAL MINT ERROR

A Canadian auction house sold a group of Canadian \$5 and \$10 pattern uniface essay trial strikes on experimental planchets featuring various designs for the 1976 Montreal Olympics. Most were struck on planchets with a silver composition varying in fineness. They were certified by PCGS as specimens and were from the estate of Derek Dawson, Former Director of Products and Logistics, and Chairman of the Olympic Coin Design Committee.

Here are a few of the \$5 pattern uniface essay trial strikes with different silver compositions:



UNIQUE CANADIAN OLYMPIC COMMEMORATIVE OFF-METAL MINT ERROR



UNIQUE CANADIAN OLYMPIC COMMEMORATIVE OFF-METAL MINT ERROR



Unique 1877 Great Britain Penny Off-Metal Mint Error

by Mike Byers (mikebyers.com)

This is a unique and fascinating major mint error from Great Britain. After extensive research, I am not aware of another Great Britain Victorian-era coin struck

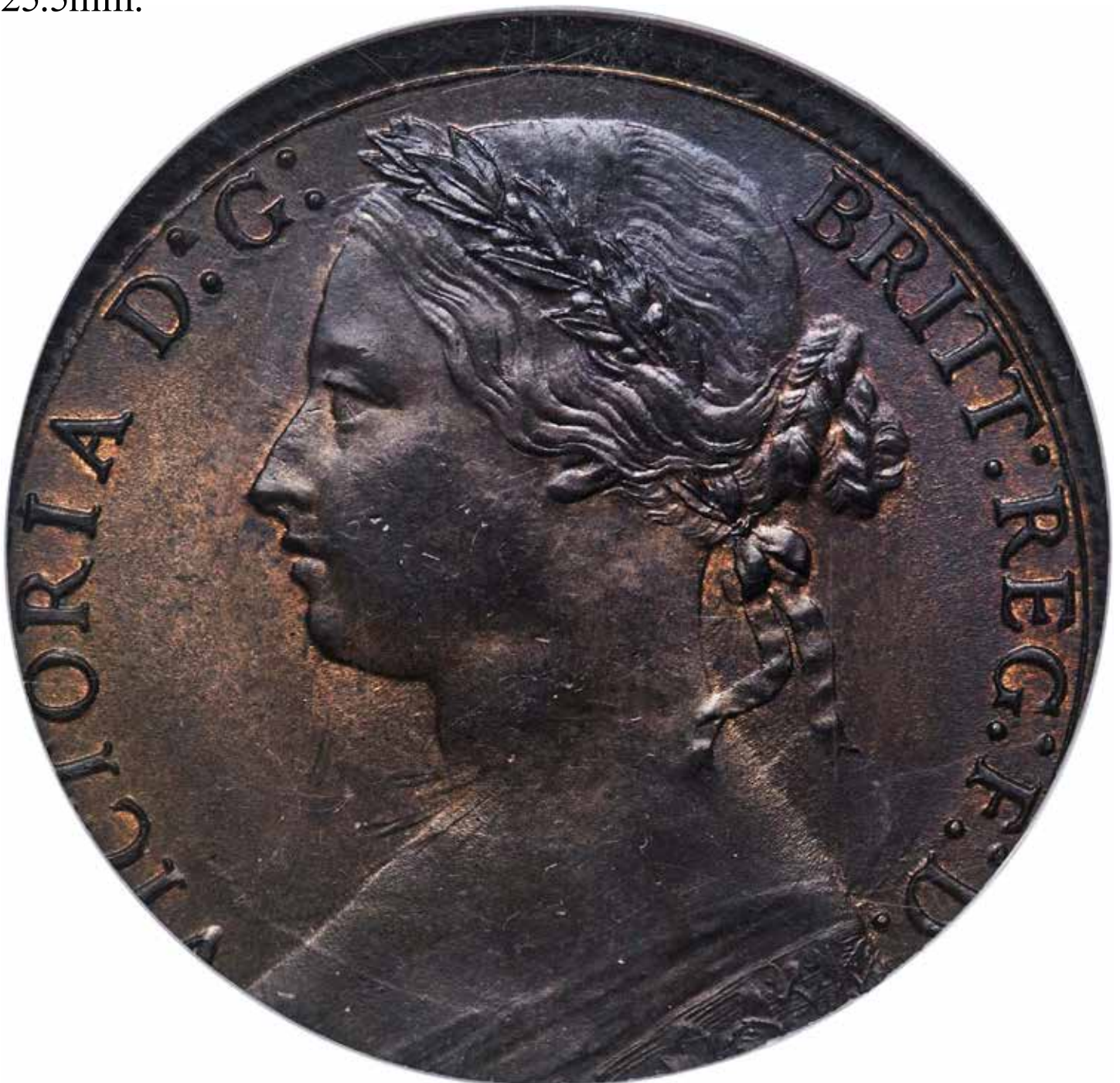
on a smaller planchet as an off-metal mint error. Experts in the U.S. and Great Britain were consulted, as well as searching through auction house catalogs and reference books.



Unique 1877 Great Britain Penny Off-Metal Mint Error

Instead of being struck on a 1 Penny planchet with a weight of 9.45 grams and a diameter of 30.8mm, it was struck on a 1/2 Penny planchet with a weight of 5.67 grams and a diameter of 25.5mm.

There are many patterns and die trials from Great Britain, some even during the Victorian era, that were struck as off-metals, but these were die trials or test pieces on full size planchets.



Unique 1877 Great Britain Penny Off-Metal Mint Error

This unique Great Britain off-metal is in gem mint state condition with full mint luster and original toning.

It is one of the most dramatic mint errors ever to surface out

of Great Britain, a country with extremely strict quality control at the mints. This unique off-metal deserves to be included in the finest collection of mint errors or English coinage.



UNIQUE OFF-METAL DISCOVERY: GREAT BRITAIN 2023 5 POUND 2oz .999 SILVER STRUCK ON A 2 POUND 1oz PLANCHET

by Mike Byers (mikebyers.com)



UNIQUE OFF-METAL DISCOVERY: GREAT BRITAIN 2023

5 POUND 2oz .999 SILVER STRUCK ON A 2 POUND 1oz PLANCHET

This is a discovery coin and a unique off-metal mint error. This 5 Pound 2oz Silver bullion coin, produced at the Royal Mint in London, was accidentally struck on a 2 Pound 1oz planchet.

The 5 Pound 2oz Silver bullion coin was individually packaged in a single coin capsule by the Royal Mint. An eagle-eyed collector

noticed that the weight was approximately 50% and realized that he had an off-metal major mint error.

Authenticated and certified by NGC as Struck on a 2 Pound Planchet, it is unique to date. It is amazing how the Royal Mint accidentally released this unique off-metal.

The obverse features the official coinage portrait of King Charles. The reverse, designed by David Lawrence, portrays the mythical bull.



UNIQUE OFF-METAL DISCOVERY: GREAT BRITAIN 2023

5 POUND 2oz .999 SILVER STRUCK ON A 2 POUND 1oz PLANCHET



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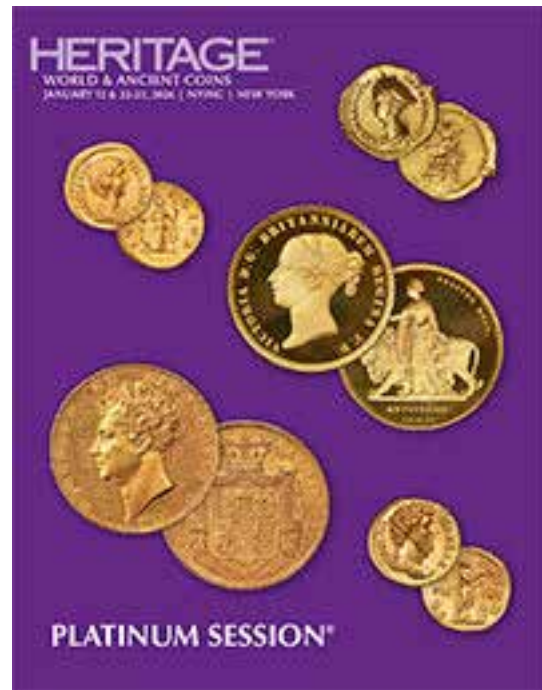
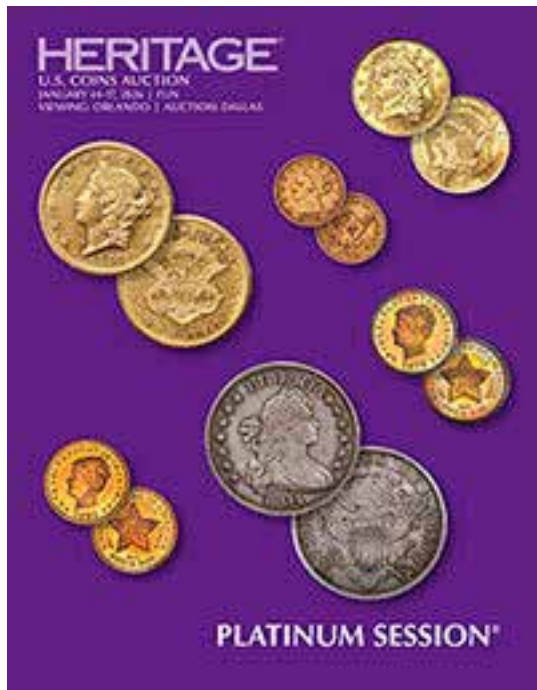
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Contributor
to
COINWEEK



PRICES REALIZED FOR RARITIES IN THE PLATINUM & SIGNATURE® SESSIONS OF THE 2026 FUN & NYINC HERITAGE AUCTIONS



The following rarities sold in the January 2026 FUN US Coins Signature® Auction #1390 and the NYINC World & Ancient Coins Platinum Session and Signature® Auction - New York #3129.



Images Courtesy of Heritage Auctions, HA.com

**Lincoln Memorial Cent, MS64+
Struck on a 2.8-Gram Screw**

Sold For: \$20,740.00

Undated Lincoln Memorial Cent -- Struck on a 2.8 gram Screw -- MS64+ PCGS.
A metal screw, approximately 30 mm in length, was struck between Lincoln Memorial cent dies to create the present dramatic mint error. The screw appears to have a steel alloy, but portions of the piece struck by the reverse die have a copper-red color, perhaps from traces of copper in the die chamber that adhered to the screw during the strike. The threads of the screw are mostly flattened on the obverse side, which displays LIBERTY and IN GOD WE TRU. Lincoln's head is present except for his jaw, mouth, and nosetip. On the reverse, the screw threads are partial. Flat areas show ONE CEN and the bottom left portion of the Lincoln Memorial. A memorable minting mishap.



**Lincoln Memorial Cent, MS64+
Struck on a 2.8-Gram Screw**



**Lincoln Memorial Cent, MS64+
Struck on a 2.8-Gram Screw**



**PRICES REALIZED FOR RARITIES IN THE PLATINUM & SIGNATURE®
SESSIONS OF THE 2026 FUN & NYINC HERITAGE AUCTIONS**

**1944-D Steel Cent, MS62
Ex: Simpson Collection
High-Grade Off-Metal Cent Error
*Sold For: \$122,000.00***

1944-D 1C Struck on a Zinc-Coated Steel Planchet MS62 PCGS. CAC. Ex: Simpson. This 1944-D steel cent is pedigreed to the world-famous Simpson Collection of complete Lincoln Cents Off-Metal Strikes, Circulation Strikes (1943-44) assembled by Bob Simpson, a complete Registry Set of memorable quality that is unlikely to be equaled anytime in the future. This piece is the sole 1944-D steel cent in this grade at PCGS, although that service shows one MS63 finer.



PRICES REALIZED FOR RARITIES IN THE PLATINUM & SIGNATURE® SESSIONS OF THE 2026 FUN & NYINC HERITAGE AUCTIONS

It is likely that somewhere between seven and 10 examples of the 1944-D steel cent are known, positioning it squarely in the middle of rarity between the 1944 steel Philadelphia issue, of which two dozen could survive, and the 1944-S, which survives to the extent of only two known pieces. One of those, however, is an incredible MS66 PCGS coin also in the present Platinum Night session, the finest certified steel cent from any mint.

The authors -- Nicholas Brown, David Camire, and Fred Weinberg -- of *The 100 Greatest U.S. Error Coins* posit that “eight to 10” survivors are known specifically of the 1944-D steel Lincoln cent, which they rank in their number 15 spot. (PCGS pegs the number at seven.) Curiously, the 1944 steel cents (all mints) are omitted from the latest (sixth) edition of *The 100 Greatest U.S. Coins* by Jeff Garrett and Ron Guth, even though their counterparts, the 1943 bronze cents, are ranked near the top at number 19. Nonetheless, both cent issues are the hands-down keys to all the small cent issues, the only two small cents that can make the claim of “rare in all grades” and surviving in amounts exponentially smaller than the issue that comes in at best a distant third, the 1856 Flying Eagle cents.

In addition to its innate rarity, this piece, like several other off-metal Lincoln cents in this auction, as mentioned formed part of the famed Bob Simpson Lincoln Cents, Off-Metal Strikes Registry Set (1943-44), which was exhibited at the 2011 FUN show in Tampa, Florida. In addition to a complete 1943-PDS set of bronze cents and a complete 1944-PDS set of steel cents, the Simpson Collection included 1943-P, 1943-S, and 1944-P cents struck on silver planchets (likely intended for the Mercury dime presses). Simpson’s AU58 PCGS 1943-S bronze cent exhibited at FUN 2011 has since been upgraded with a MS62 Brown PCGS example, for which he paid \$1 million in September 2012.

This 1944-D steel cent was shown at that 2011 FUN exhibition. The satiny surfaces are largely silver with hints of blue and gold at the reverse rims, showing great eye appeal for the grade. A small, circular brown toning dot in the reverse field below OF A provides a pedigree marker, as do a couple of small obverse ticks on Lincoln’s lower beard and goatee. This piece stands as an extremely important potential acquisition for advanced collectors.

**1944-D Steel Cent, MS62
Ex: Simpson Collection
High-Grade Off-Metal Cent Error**



**1944-D Steel Cent, MS62
Ex: Simpson Collection
High-Grade Off-Metal Cent Error**



Charles III 8 Escudos 1767, MS63 NGC

Brass Uniface Obverse Die Trial

Sold For: \$26,840.00

Charles III brass Uniface Obverse Die Trial 8 Escudos 1767 MS63 NGC, cf. KM397.2 (Similar Obverse design). A historic emission from colonial Spain, struck during the same year of the Expulsion of the Jesuits; this is the only of its kind to be found certified by either major grading company. Citrus hues pool at device edges, as olive-gold toned brass surfaces display razor-sharp detail, even over two centuries since striking.



**Charles III 8 Escudos 1767, MS63 NGC
Brass Uniface Obverse Die Trial**



**Charles III 8 Escudos 1767, MS63 NGC
Brass Uniface Obverse Die Trial**



HERITAGE U.S. COIN AUCTIONS

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1943 Cent
Struck on a Bronze
Planchet
AU58 PCGS, CAC
Realized \$252,000



1982-D Small Date
Cent
Struck in Bronze
AU58 NGC
Realized \$10,800



Undated Two Cent Piece
Full Brockage Obverse
MS62 Brown PCGS
Realized \$9,600



1943-S Nickel
Struck on a Zinc-Coated
Steel Planchet
AU58 NGC
Realized \$2,880



1965 Dime
Struck on a Silver
Dime Planchet
MS62 PCGS
Realized \$9,000



1971-D Quarter,
Brockage Reverse
Struck on Nickel Planchet
MS65 PCGS
Realized \$4,320



2000-D Maryland Quarter
Struck on Feeder Finger
Ungraded NGC
Realized \$15,600



1999- SBA Dollar
Struck on a Sacagawea Planchet
MS64 PCGS
Realized \$15,600



2000-P Sacagawea Dollar /
Statehood Quarter Mule
MS67 NGC
Realized \$102,000

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Comprehensive Error-Variety Checklist

Compiled by Mike Diamond

This checklist is my attempt to compile a comprehensive listing of all known variety and error types, subtypes, and associated effects. It is updated periodically to reflect the current state of knowledge.

While the traditional planchet-die-striking method of classification hasn't been completely abandoned, it has been absorbed into a much more detailed and precise taxonomy. This is intended to reflect the numerous steps (and missteps) in the minting process that generate the great diversity of anomalies presented here.

Many of the categories will be familiar to veteran collectors. Others will perhaps be dimly recalled, while others will be unfamiliar. Many of the more obscure error types have been covered in detail in articles published in *Errorscope* ("ES"), *Coin World* ("CW"), and *Coin Week* ("CWK").

I have tried to restrict this checklist to basic error/variety types and subtypes. Combination errors have been kept to a minimum. Had I attempted to incorporate all conceivable two-error combinations, this would have generated almost half a million entries. That would have been both unwieldy and unnecessary.

ES=*Errorscope*

CW=*Coin World*

CWK=*Coin Week*

Part I. Design Subtypes

Patterns and Prototypes (accidental release)

1916 Winged Liberty ("Mercury") dime patterns

1971-S Eisenhower dollar prototype (CW 9/29/08)

2000-P Sacagawea "Cheerios" dollar

Mid-year design modifications

Type 1 and Type 2 1913 "buffalo" nickels (raised vs. recessed "FIVE CENTS")

1917 Standing Liberty quarter with breast covered or uncovered

Change from 1960 small date to large date cent

1853 Seated Liberty dimes and half-dimes, with and without arrows

Comprehensive Error-Variety Checklist

Conceptual design flaws (foul-up in design or in translating design to master hub or master die) (CW 11/15/21)

Misspellings (foreign only) (CW 1/25/16)

Inaccurate design

Italy 1000 Lire with outdated map borders

Canadian \$5 Olympic Coin. Runner with two left feet

1817 large cent with 15 stars (possibly done intentionally as a political statement)

1828 half cent with 12 stars (possibly done intentionally as a political statement)

Mistakes during design modification (CW 4/18/16)

2007 Mexico 10 pesos with reversed dentils

2008 Chile 50 pesos with country spelled "CHIIE"

Unauthorized strikes and unauthorized issues (CW 1/20/14)

1913 Liberty Head Nickel

1954 Mexico 5 centavos (small size)

Part II. Die Varieties

Reduction lathe doubling (master hub doubling)

Master die doubling (master die with a doubled die variety) (CW 7/27/20)

Broken hub (chipped hub) (CW 12/23/13, 5/21/18)

Crumbling hub (CW 3/25/24)

Hubbed-in debris (CW 5/27/13, 1/17/22)

Broken punch

Damaged punch

Comprehensive Error-Variety Checklist

Defective punch

Longacre doubling (probably impressions of punch shoulders)

Doubled dies (incl. tripled dies, etc.)

Rotated hub doubling (Class I) (CW 8/8/16)

1872 Seated Liberty dime with 175 degree rotation (ES July/August 2003; CW 2/10/03)

Distorted hub doubling (Class II)

Design hub doubling (Class III)

Offset hub doubling (Class IV)

Pivoted hub doubling (Class V)

Distended hub doubling (Class VI)

Modified hub doubling (Class VII)

Tilted hub doubling (Class VIII)

Single-squeeze doubled dies (often attributed to Class VIII) (CW 2/14/05, 9/12/05)

Peripheral doubling (CW 8/2/04)

Centrally-located doubling (CW 3/21/22)

Weaker impression hubbed last (e.g. 1963-D cent) (CW 6/14/10)

Centrally-located doubled dies (CW 4/15/19)

Rotated

Weak or incomplete hubbing (always part of a doubled die)

Tilted hubbing (always part of a doubled die)

Misaligned hubbing (CW 5/30/22)

Repunched dates (ES July/August 2012; CW 12/14/09, 7/11/16)

1956-D cent with repunched 5 (controversial) (CW 9/20/04, 7/16/12)

1957-D cent with repunched 7 (controversial)

Re-engraved dates (on master die or working die)

Blundered dates (on master die or working die)

Comprehensive Error-Variety Checklist

Misplaced dates (e.g. digits in denticles) (CW 4/21/03)

Misplaced mintmarks

Phantom mintmarks (working hub has mintmark incompletely removed)
(e.g. faint D and S mintmarks in cents from the late 1990s)

Dual mintmarks

1980 D & S cent (recently delisted)

1956 D & S cent (controversial)

Horizontal mintmarks (inevitably repunched)

Tilted mintmarks (punched-in at an angle) (CW 7/28/14)

Rotated mintmarks (CW 7/28/14)

Inverted mintmarks

Deeply-punched (high-standing) mintmarks (CW 9/29/14)

High-standing D-mintmark (1987-D, 1988-D, and 1989-D cents)

Weakly-punched mintmarks

Repunched mintmarks (CW 1/20/20)

Overlapping mintmarks

Mintmarks totally separated

Two different fonts

Large over small mintmark

Overmintmarks (e.g. 1944-D/S cent)

Other repunched or re-engraved design elements

Denomination

Letters

Comprehensive Error-Variety Checklist

Assay value

Omitted mintmarks (e.g. 1982 no-P dime)

Omitted dates (foreign only) (CW 4/28/14)

Other omitted design elements

Large over small mintmark

Different mintmark styles and sizes

Overdates (CW 1/23/17)

Caused by repunching

Caused by second hubbing with die of different date (Class III doubled die)

Caused by grinding off earlier design and rehubbing or repunching (CW 1/23/17)

Dual Dates (earlier date faint)

Caused by erasing earlier date on working hub

Caused by removing earlier date from working die and re-hubbing

(e.g. 1975 Bahamas 5c with faint date "1973" on opposite face)

Wrong dates

Date later than final date of issue (e.g. 1913 Liberty Head nickel)

Date earlier than first date of issue (e.g. 1954 Mexico 5 centavos - small size)

Wrong digits (e.g., 1393/1893 Peruvian peso)

Transposed digits

Blundered dies (various types) (CW 8/18/08)

Special Finish Errors (Proofs, Mint Sets, Special Mint Sets, Satin Finish, etc.)

Frosting slop-over (proofs)

Comprehensive Error-Variety Checklist

Offset frosting (proofs) (CW 2/21/11)
Design removed by proof polishing (CW 2/21/11)
Field lowered by proof polishing (CW 2/14/11)
Frosting in wrong place
 “Frosted Freedom” \$50 and \$100 platinum coins (CW 8/1/11)
Frosting omitted
Stencil outlines (CW 2/18/13)
Incomplete proof laser frosting (CW 9/12/16, 9/6/21)

Design Extension Dimples (CW 4/18/2011)

Edge lettering font variants

Presidential dollars (4-5 types) (CW 10/18/10)

Hidden initials and symbols (CW 5/18/20, 2/2/24)

Applied to working die or master die
 1973 and 1974 Mexico bronze 20 centavos
 1984 Mexico 1 peso
Applied to working hub
 2023 “extra V” cent (CW 3/27/23)

Part III. Die Installation Errors

Mules (ES May/June 2010)

Wrong hammer die
 1995 cent/dime mule
Wrong anvil die
 1993-D and 1999 cent dime mules
Wrong hammer and anvil die (CWK 8/20/25)
 Maryland quarter on Sac planchet in Sac collar (3 specimens)
Two anvil dies
 Two-tailed clad dime (1 known specimen, probably from 1965)
 Two-tailed clad quarter (4-5 known specimens, probably from 1965)
 1982 Jamaica cent with two obverse faces
Two hammer dies
 1859 Indian cent with two obverse faces (unique)

Comprehensive Error-Variety Checklist

!1981-P quarter struck by two obverse (hammer) dies (CW 7/22/24)

Two obverse or two reverse dies (die setup unclear)

2000-P nickel with two obverse dies (CW 6/26/17)

Two different countries

(1967) Bahamas 5c/New Zealand 2c mule

Different denominations

Washington 25c/Sacagawea \$1 mules (16 specimens, 3 die pairs)

Mule die larger than normal die and collar

1995 cent/dime mule

Mule die same size or smaller than normal dies and collar

(All known U.S. mules employ dies of different sizes)

Temporal mule (dies from different years) (CW 1/20/14)

1959-D wheatback cent (unique)

2000 Macedonia 1 denar muled with obverse die used in prior and later years

Commemorative 1992 Canadian quarter muled with 1993 reverse (CW 9/17/01)

Temporal/transitional mule (dies from different years with change in planchet composition) (CW 1/20/14)

1942-S silver alloy five cent coin with small S-mintmark to right of Monticello (unique) (CW 5/9/16)

1993 bimetallic Russia 50 roubles (St. Petersburg mint set only) (ES March/April 2010; CW 3/20/17)

Regular-issue die muled with commemorative die

September and November 1999 Canadian quarters

Regular-issue die muled with government medal or token die

2000 Canada "map mule"

Regular-issue die muled with private token, medal, or nonsense die (ES Jan/Feb 2008; CW 11/25/13)

Mules involving pattern dies (various types)

Normal die paired with pattern or prototype die (CW 2/2/04)

Collar mule (collar from different denomination of same or similar size installed)

Lettering die mule (mismatch between edge lettering applied before or after strike and the design shown on the obverse and reverse face)

Presidential dollar with wrong date on edge

2009 Zachary Taylor dollar with 2010-D edge inscription (CW 2/22/10, 3/1/10)

2007-D Sacagawea dollar with Presidential dollar edge lettering (CW 7/9/12)

Pseudo-mules (3 pathways) (CW 4/25/11, 3/19/12, 4/23/12, 12/11/17, 12/17/18, 2/22/21, 12/12/22, 1/15/24)

One U.S. two-tailed quarter may belong in this group (CW 11/27/04; 8/27/12)

Mismatched business / unfinished proof dies

1999 \$5 and \$10 gold eagles struck with unfinished proof dies (W-mintmark)

1998-2000 business strike cents with proof-style reverse ("wide AM")

1998-S and 1999-S proof cents with business-style reverse ("close AM")

Comprehensive Error-Variety Checklist

1956 -1964 quarters with “Type B” proof reverse

Finished proof die matched with business die

Early 19th century examples (CW 8/20/12)

Transitional reverse dies (minor temporal mismatch or “mini mule”) e.g.:

1939 nickel with reverse of 1938

1940 nickel with reverse of 1939

Proof 1940 nickel with reverse of 1938 (CW 4/19/08)

1964-D quarter with the “Type C” reverse of 1965

1988 cent with reverse of 1989

1992-D cent with “close AM” reverse

Inverted die installation (not an error) (CW 2/15/10, 7/22/19, 1/6/20)

Older issues struck with inverted dies (e.g. buffalo nickels and Mercury dimes)

Re-introduction of inverted dies (beginning 1989) (CW 12/4/23, 12/11/23)

Saddle strikes produced by inverted dies (CW 9/13/10, 9/19/16)

Late use of traditional die setup (CW 6/25/18, 9/30/24)

Fixed rotated die errors (see Part VI)

Collar installation errors

Smooth edge instead of reeded edge (and vice versa)

1863 Indian cent with reeded edge (CW 6/3/2002)

Smooth edge instead of edge design (and vice versa)

Reeded edge instead of edge design (and vice versa)

Segmented proof collar with segments out-of-order (CW 4/7/08)

2007-S proof Presidential dollar with segments arranged in incorrect sequence (CW 4/7/08)

Use of flat, featureless dies (CW 6/30/14)

Use of cancelled and defaced dies (CW 5/12/14, 5/8/17, 12/31/18)

Comprehensive Error-Variety Checklist

Cancellation overstrikes (coins overstruck by canceled coin, pattern or test dies) (CW 5/8/17, 5/24/21)

Defaced die overstrikes (coins overstruck by defaced dies) (CW 5/12/14; CWK 6/20/25)

Design/composition mismatches (CW 2/10/20)

Part IV. Die Errors

Reeding vs. no reeding varieties (foreign only)

Concentric lathe marks (ES Nov/Dec 2003; CW 3/12/8)

Especially common among 1996-D cents

Die rings (tiny circles, semicircles, and spirals) (CW 2/20/17, 1/18/21, 6/13/22)

Centrally-Located

Uncentered

Rusted die (CW 12/1/08)

Excessively deep rim gutters

1991 cents

Rockwell test mark left in die (hemispherical bump seen on coin) (ES July/Aug 2006)

Vickers test mark left in die (pyramidal bump) (CW 5/15/17)

Collar manufacturing errors

Wide collar (ES Nov/Dec 2002; CW 5/17/10)

Created by improper machining or improperly machined broach

Created by use of wrong broach

Improper use of correct broach

Widening due to wear

Widening due to 3 or more vertical collar cracks and associated expansion (CW 5/17/10)

Abnormal reeding

1921 Morgan dollar with infrequent reeding

Comprehensive Error-Variety Checklist

1924-D Mercury dime with infrequent reeding

2015 American Eagle 1/10oz gold \$5 bullion coin with narrow reeds (CW 7/13/15)

Low, narrow reeds caused by truncation of ridges on collar face (ES March/April 2010; CW 1/25/10, 4/16/12)

1964-D 25c

2008-P New Mexico 25c

Hub Retouching

Channeling (hub retouching affecting master and working hubs from 1920s to 1940s) (CW 7/23/12)

Re-engraved master hub (CW 1/1/24)

Die retouching (CW 5/30/16, 9/30/19)

Re-engraved "AW" mintmark on 1944-D half dollar (CW 2/2/04, 2/16/04, 3/1/04)

Re-engraved tail feathers on business-strike 1957-D quarter

Re-engraved front of Lincoln's coat (1953 proof cent)

Re-engraved working dies and hubs on Lincoln cents (CW 9/30/19)

Re-engraved queue on 1952 – 1954 proof nickels

1938 proof nickels with re-engraved letters and design details (ES Jan/Feb 2009)

Die damage (ES, Nov/Dec 2004, Jan/Feb 2003; CW 5/21/12)

Die dents (ES, Nov/Dec 2004, July/August 2005, Nov/Dec 2005; CW 9/15/03, 12/22/14, 3/28/22, 7/31/23, 10/21/24)

Die scrapes (CW 4/23/07, 3/19/19, 3/7/22, 4/8/24)

Accidental die scratches

Die gouges

Impact scars

Accidental die abrasion (CW 9/8/14, CW 12/16/19)

Intentional die abrasion ("die polishing") (CW 3/29/10, 5/31/10, 9/8/14, 3/20/23)

Heavy die scratches

Thinning and loss of design elements

Abrasion affecting entire die face

Localized abrasion

Defects related to die polishing

Over-polished proof and SMS dies (CW 2/21/2011)

Trails and Wavy Steps (ES July/Aug 2006, Sept/Oct 2006, Nov/Dec 2006, Jan/Feb 2011; CW 3/8/10, 7/17/17, 7/30/18)

Localized removal of field from proof polishing (CW 2/14/2011)

Die attrition errors (ES May/June 2003, March/April 2005, March/April 2009; CW 1/4/10, 12/24/12, 4/14/14, 11/4/19, 7/3/23, 10/16/23, 2/19/24)

Comprehensive Error-Variety Checklist

Other forms of peripheral die damage (ES March/April 2005, CW 8/9/21, 3/14/22)

Catastrophic die damage (ES March/April 2002; CW 9/15/03, 9/12/11, 9/19/11, 5/20/13 10/27/14, 6/19/17)

Canceled or defaced dies (foreign only) (CW 5/8/17, 12/31/18)

- 1994 Hong Kong bimetallic 10 dollars

- Egypt 25 piastres struck by defaced 50 piastres dies (CW 5/12/14)

- 1966 Bolivia 10 centavos struck by pair of canceled dies (CW 5/8/17)

- Chilean test dies with concentric cancellation pattern struck over struck foreign core (CW 5/8/17)

Rockwell test mark in die (CW 5/15/17)

Vickers test mark in die (CW 5/15/17)

Die rings (tiny rings, semicircles, and crescents) (CW 2/20/17)

- Centrally-located

- Offset

Hubbed-In debris (CW 5/27/13, 1/17/23)

Collar damage (ES March/April 2010; CW 1/25/10, 4/16/12, 6/17/19)

- Horizontal abrasion (CW 1/25/10, 4/16/12)

- Vertical abrasion (CW 6/17/19)

Deformed collar (CW 12/28/20)

Clashed dies (ES March/April 2002; CW 3/22/10, 4/30/12)

- Multiple clash marks (including “chatter clash”) (CW 6/25/12, 11/11/19)

- Raised clash marks (CW 8/11/14)

- Double clash with reciprocal counterclash (Type 1) (ES Nov/Dec 2004; CW 12/13/10, 7/29/19, 11/11/24)

- Misaligned die clashes (ES May/June 2004, July/August 2004; CW 6/25/12)

- Horizontally misaligned die clash

- Vertically misaligned (tilted) die clash (CW 1/3/11, 5/9/11)

- Pivoted die clash

- Radically misaligned, rotated, pivoted clashes – produced at installation? (CW 7/12/10, 12/31/12, 5/27/19)

- Co-occurrence with conventional clash (CW 8/17/15)

- Rotated die clash (CW 1/22/18, 6/26/23)

- Combination clashes

- Mule clash errors, e.g. (ES, July/August 2002) (CW 11/17/08, 8/13/18, 8/20/18, 4/8/19)

- 1864 2c reverse die clashed with Indian cent obverse die

- 1857 1c obverse die clashed with Seated Liberty 50c obverse die

- 1857 1c reverse die clashed with Seated Liberty 25c reverse die

- 1857 1c obverse die clashed with Liberty \$20 obverse die

Comprehensive Error-Variety Checklist

1857 Seated Liberty 25c reverse die clashed with 1857 1c reverse die

1870 Shield nickel obverse clashed with Indian Head cent obverse

1999 cent reverse die clashed with another cent reverse die

Floating die clash (collision with die fragments) (ES, May/June 2002, May/June 2005; CW 7/19/10)

Superclash (full reciprocal design transfer) (CW 3/22/10, 4/30/12, 10/22/18, 9/9/24)

Circumferential clash marks (CW 12/10/18)

Grease-enhanced clash marks (CW 10/16/17)

Associated with weak strikes (CW 12/2/19)

Clashed die progressions (5/15/23)

Collar clash (CW 6/11/07, 2/24/22)

Hammer die

Anvil die

Inverted die setup (uncommon)

Traditional die setup (extremely rare) (CW 10/30/23, 12/18/23)

Floating collar clash (CW 4/17/17)

Misaligned collar clash (CW 2/13/23)

Die damage with design transfer

Floating die clash (ES, May/June 2002, May/June 2005; CW 7/19/10)

Exogenous floating die clash (CW 6/20/22)

Floating (Type 2) counterclash (ES, May/June 2002, July/August 2002, Sept/Oct 2002, Jan/Feb 2009, Sept/Oct 2010; CW 9/29/08, 12/13/10, 4/9/12, 4/21/14, 6/8/15, 4/23/18, 2/21/22, 12/19/22, 2/20/23)

Miscellaneous and unexplained forms of design transfer/duplication

Some presumed Canadian counterclashes may prove to be something else

Die deterioration/deformation errors

Exaggerated conventional die wear (CW 12/27/21, 2/5/24, 10/28/24)

Radial flow lines

Concentric flow lines (uncommon)

Parallel flow lines (promoted by pre-existing trails)

“Orange peel” effect

Design-devouring die wear (thinned letters and numbers) (CW 10/28/13, 2/22/16, 8/23/21)

Discrete lumps (CW 4/27/20)

Die deterioration doubling (CW 9/10/12)

Raised

Comprehensive Error-Variety Checklist

Incuse (CW 2/4/08)

"Blebs" or "patches" (die erosion pits) (ES July/Aug 1998; CW 7/21/03)

Progressive indirect design transfer ("internal metal displacement phenomenon", "ghosting") (CW 6/7/10, 8/17/20)

Common in 1946-S and 1948-S cents

Surface-level die deformation errors (ES July/Aug 2001, Nov/Dec 2001) (CW 9/17/12)

(premature, localized, exaggerated, and peculiar patterns of deformation)

1943-S "goiter neck" quarter

Detail-erasing die deformation (2016-P Harper's Ferry quarter) (CW 2/27/17, CW 6/17/24)

"Ridge rings"

on copper-plated zinc cents (CW 2/14/05, 2/28/05)

on other U.S. denominations (CW 2/15/21)

on world coins (ES Sept/Oct 2006) (CW 2/17/14, 11/10/14)

Design berms (raised outlines) (CW 5/14/18, 11/6/23)

Die subsidence (sunken die) errors (ES July/August 2004, Nov/Dec 2004; CW 6/2/03, 11/29/04, 3/12/12, 2/12/18, 8/14/23)

e.g., 1924-S "goiter" cent

Co-occurring with split dies

Co-occurring with radial, antipodal die cracks (CW, 6/20/11)

1988-P nickels with lump on head (CW 4/4/11)

Massive die collapse in 2003-D dime (ES Nov/Dec 2011; CW 8/29/11)

Paralleling and flanking die cracks (CW 8/12/13)

Recurring die subsidence errors (CW 4/4/11, 3/31/14)

Linear die subsidence errors (CW 8/12/13)

Thermal warping (CW 5/29/23)

Design creep

Reverse (hammer) 2014-P nickel die (CW 4/20/15)

In fractional Euro coins

Peripheral die expansion and erosion (CW 8/13/12, CW 4/13/15)

"Starburst" pattern of radial streaks (cause uncertain) (CW 8/15/05, 11/7/05)

Reciprocally deformed, convex-concave dies

Centrally-located deformation; 2001-P 50c) (ES Sept/Oct 2008; CW 1/19/15)

Peripherally-located deformation; India 2 rupees (CW 1/19/15)

Die breaks

Cuds (corner die breaks) (CW 10/17/11, 10/4/21)

Ovoid cuds

Irregular cuds

Crescentic cuds (ES March/April 2005; CW 2/15/16)

Circumferential cuds (ES March/April 2005; CW 2/15/16)

Elongate cuds (CW 12/8/14, 12/21/20, 7/31/23)

Comprehensive Error-Variety Checklist

Rim-to-rim cuds (ES May/June 2003; CW 12/24/18)

On off-center or broadstruck coins (CW 9/12/11)

Deep vs. shallow die breaks (CW 6/2/20)

Retained Cuds (ES Jan/Feb 2006; CW 4/17/06, 7/24/06, 1/24/11)

Anvil die (diagnosis often in doubt)

Hammer die (doubtful) (CW 8/8/13)

With vertical displacement

With horizontal offset

With lateral spread

Outthrust (protrudes beyond die face) (CW 3/11/19)

Hammer die

Anvil die

Interior (internal) die breaks (ES May/June 2003; CW 10/25/10, 11/5/18, 8/14/23)

Connected to die cracks or splits

Freestanding (ES May/June 2005)

Retained interior die breaks (ES July/August 2004)

Connected to die crack or split die

Freestanding

Rim cuds (CW 5/3/21)

Die chips (CW 6/14/19, 7/8/19)

On raised die features (CW 2/28/22)

Catastrophic die failure (ES May/June 2007) (CW 5/20/13, 2/27/23, 6/19/23)

With associated collar damage (CW 6/17/19)

Spontaneous breaks

Breaks produced by impacts

Textured and dimpled cuds (CW 10/17/11, 10/12/20)

Cryptic cuds (CW 4/17/23)

Die exfoliation errors (CW 10/19/20)

Collar breaks (collar cuds) (ES May/June 2008; CW 5/17/10, 11/22/10, 12/19/16)

Complete collar break (abrupt loss of entire arc segment) (CW 5/6/24)

Irregular collar break

Chipped collar

Vertical collar crack

Retained collar break

Rotating collar break (ES, July/August 2003; CW 1/6/03, 12/12/16, 4/20/20, 12/28/20)

Bilateral split collar

On off-center strikes (CW 9/9/19)

Comprehensive Error-Variety Checklist

Catastrophic collar failure (CW 7/17/23)

Wandering collar scar (4/15/24)

Die cracks (CW 4/25/16)

Rim-to-rim

Arcing rim-to-rim (“pre-cud”) (ES Jan/Feb 2006; CW 2/8/21)

With lateral spread

Blind-ended

Bi-level die cracks (ES July/August 2004)

Protruding marginal die segments (CW 5/19/14)

Radial, antipodal die cracks (with centralized subsidence) (ES Sept/Oct 2011; CW 6/20/2011)

Die crazing (crazed die) (CW 2/24/14)

Shattered dies (ES Jan/Feb 2006, May/June 2007; CW 4/7/08, 9/17/18, 4/6/20)

Two or more splits in die

Numerous wide, intersecting, raised die cracks

Numerous intersecting bi-level die cracks

Various combinations of brittle fracture

In response to impacts (CW 6/19/17)

Impact-induced die cracks (CW 6/19/17)

Split Dies (ES Jan/Feb 2006; CW 6/2/03, 4/10/06, 4/17/06, 6/20/2011, 5/11/15, 9/17/18, 4/26/21, 4/18/22, 7/18/22,)

Median (bisecting) split die

Asymmetrical split die (CW 7/31/23)

“False split” (radial, antipodal die cracks) (ES Sept/Oct 2011; CW, 6/20/2011)

Part V. Planchet Errors

Alloy errors

Improper alloy mix (CW 12/27/11, 1/30/23, 4/3/23)

Poorly mixed alloy

Incorrect proportions of metals

In conjunction with rolled-thick errors (1941 cents, mainly) (CW 10/15/12)

Gas bubbles (CW 11/19/12)

Intact (“occluded”)

Comprehensive Error-Variety Checklist

Ruptured

Slag inclusions (ES May/June 2006)

Intrinsic metallic inclusions (ES Sept/Oct 2006) (CW 12/27/11, 7/21/14)

Lamination errors

Loss before strike

Due to alloy contaminants (CWK 9/23/25)

Loss after strike

Lamination cracks

Retained laminations

Folded-over before strike (CW 10/22/12)

Internally split clad layer (CW 10/22/12, 6/26/17)

Split planchets

Before strike (CW 8/2/10)

After strike

Struck with another planchet on top or beneath

Split core (clad coins)

Clamshell split (CW 1/28/13)

Clamshell folded over before strike (CW 10/22/12, 1/28/13)

Hemi-split planchets (CW 10/9/23)

Copper-and-zinc composite “shells” (ES, May/June 2001)

Split-after-strike (N.B. these are probably all detached cap bottoms)

Cracked planchets (CW 9/28/15)

Broken planchets / coins (CW 3/14/11, 9/18/23)

Before strike

After strike

Brittle coins (cross-classified with annealing errors)

Radial planchet splits (when struck out-of-collar)

Delayed radial stress splits (CW 5/2/22)

Planchet cohesion errors (crumbling planchets) (CW 11/22/21)

Ragged clips (CW 2/29/16)

Ragged notch

Ragged perforations (“blowholes”)

Fissures -- ragged and smooth

Stress-induced surface irregularities (CW 4/24/17)

Subsurface Corrosion (CW 12/21/15)

Plated coins

Copper-plated zinc cents

Solid coins

Comprehensive Error-Variety Checklist

Rolling Mill Errors

Rolled-thick planchets

Rolled-thin planchets (CW 8/2/10, 7/16/18)

Tapered planchets (CW 12/20/10, 12/28/15)

On clad coins (clad layer absent) (CW 4/27/15)

Rolling indentations (ES Jan/Feb 2000; CW 2/7/11)

Rolled-in scrap (ES May/June 2006; CW 2/7/11)

Bristles from descaling brush (CW 3/10/03)

Roller marks (CW 10/13/14)

Rolled-in patterns and textures

Rolled-in cloth pattern (CW 3/21/16)

From damaged, defective, and deteriorating rollers (CW 2/14/22; CWK 10/16/25)

Blanking and Cutting Errors

Curved (concave) clips (CW 6/29/15)

Crescent curved clips

Bowtie clips (ES Nov/Dec 2005; CW 6/16/14)

Two large clips at opposite poles – ends rounded

Four clips – punch slices through strip with normal hole spacing

Struck chopped webbing

Straight clips (CW 1/14/13)

Smooth straight clips

Irregular straight clips

Sawtooth clips

“Incomplete straight clips” (actually struck-in cutting burrs)

Straight cutting burrs (CW 1/14/13, 5/16/16)

Corner clips (“outside corner clips”) (CW 1/14/13)

Assay clips (“inside corner clip”) (cross-classified with pre-strike damage) (CW 1/21/13, 6/12/17)

Ragged clips (also listed under alloy errors)

Incomplete punch (incomplete clip) (ES May/June 2005; CW 3/24/14)

Elliptical (convex) clips (ES May/June 2005; CW 4/5/10, 7/11/11, 8/5/24)

Multiple clips and combination clips (CW 1/27/14)

Blanking burrs (“rolling fold”) (ES Jan/Feb 2007; CW 1/31/11, 5/29/17, 9/4/23)

Identically-positioned, same-source rolling folds (CWK 10/9/24)

Concave blanking burrs (CW 5/16/16)

Punched-in scrap (ES May/June 2006)

Comprehensive Error-Variety Checklist

Upset Mill Errors

- Coin struck on blank ("Type I planchet")
- Abnormally weak upset (ES July/August 2005)
- Abnormally strong upset (best seen on off-center strikes)
- "Groovy edge" (possibly from worn groove in upset mill)
- Variation in cross-sectional shape of rim/edge junction of planchet
- Struck coin sent back through upset mill
- Abnormal upset (ES Sept/Oct 2005; CW 2/27/12, 11/21/16)
 - Wide, flat edge
 - Smoothly convex edge
 - Abnormally wide proto-rim
- Squeezed-in debris (upset mill inclusion) (ES May/June 2006; CW 9/6/2010)
 - Foil-like metal wraps around edge onto one or both faces
 - e.g. Copper foil on nickels (not from improper annealing)
 - Metal wire wraps around edge onto one or both faces
 - Pellet embedded in edge (CW 9/6/2010, 9/22/14)

Edge design errors (impressed into planchet before strike; includes security edge errors) (CW 6/27/16)

- Edge design missing
- Edge design present on normally plain edge (CW 6/27/16)
- Wrong edge design
- Edge design too high or too low
- Interrupted edge design
- Tilted edge design
- Broken edging die (CW 6/27/16)

Mispunched center holes (foreign only) (CW 1/7/19)

- Misaligned hole
- Double-punched center hole (CW 5/27/24)
 - One hole centered
 - Both holes misaligned
 - Overlapping holes
 - Totally separate holes
- Irregular center hole

Comprehensive Error-Variety Checklist

- Abnormally small hole
- Partial hole (from broken hole punch)
- Circular indentation (partial penetration)
 - Due to broken-off punch tip (rough surface)
- Unpunched center hole
- Hole punched in planchet meant for a solid coin

Annealing Errors

- Improper annealing (due to excessive heat, prolonged exposure to intense heat, or excessive oxygen in annealing oven) (replaces “sintered plating” and “copper wash”) (ES July/Aug 2010; CW 11/30/09, 2/8/10)
 - Black, brown, red, coppery discoloration (includes “black beauty” nickels)
 - Layer of copper, often peeling
- Poorly annealed or non-annealed planchets (hard, brittle planchet) (CW 3/14/11)
 - Broken planchets and coins (CW 3/14/11, 9/18/23)
 - Radial cracks in coin (usually struck out-of-collar)
- Brittle coins (cross-classified with alloy errors) (CW 3/14/11)
- Abnormally hard planchets (CW 12/17/12, 8/15/22)
 - 1954-S nickels
 - 1983-P nickels (CW 4/11/11)
 - “Superclash” 2000-P nickel (CW 3/22/10)
- On undersized or underweight planchets (CW 2/13/12)

Miscellaneous forms of mint discoloration

Plating Errors

- Incomplete plating (CW 4/1/24)
 - Bulls-eye patterns of incomplete plating (CW 3/10/14, 10/27/14, 6/15/20, 8/12/24)
- Unplated cents (CW 10/26/15, 7/24/23)
- Cents struck on unplated or partly-plated foreign planchets (CW 3/10/14)
- Thin plating
- Thick plating (ES March/April 2009)
- Blistered plating
 - Circular blisters
 - Linear blisters
 - Ruptured blisters
- Brassy plating
- Cracked, split, and peeling plating (CW 12/18/17)

Comprehensive Error-Variety Checklist

Bonding/Bonding Mill Errors (ES Sept/Oct 2002)

Missing clad layer

Full

Before strike (CW 5/23/22)

After strike

Before rolling is completed (weight may be close to normal) (ES Sept/Oct 2002, Nov/Dec 2006; CW 5/28/12, 4/27/15)

Partial

Before strike

After strike

Before rolling is completed

Bifacial missing clad (12/2/24)

Thin cladding

With gaps

Missing both clad layers (struck core)

Core thickness (ES, Sept/Oct 2003) (CW 3/18/13, 2/3/20)

Full thickness

Struck clad layer

Separated after strike

Separated before strike

Struck by itself

Struck on top of or beneath a normal planchet

Clamshell separation (CW 1/28/13)

Clad layer folded over before strike

Missing core

Partial

Full (Coreless or all-clad coins) (CW 12/19/11, 7/29/24)

Irregular planchets

Scraps / fragments (CW 12/21/09, 1/27/20)

Normal alloy/composition

Off-metal

Feeder finger material

Foil

Heavier than normal coin of same denomination

Wider than normal coin of same denomination (along at least one axis)

Ragged clip (cross-classified with alloy errors)

Ragged notch (cross-classified with alloy errors)

Comprehensive Error-Variety Checklist

“Blowhole” (cross-classified with alloy errors)

Fissure (cross-classified with alloy errors)

Cracked planchets (cross-classified with alloy errors)

Pristine planchets (i.e. lacking tumbling marks) (CW 1/11/16)

Pre-Strike Damage (CW 11/15/10, 1/23/12, 1/30/12, 12/15/14, 4/13/15, 6/8/20)

Assay clips (cross-classified with blanking errors)

Rim burrs (CW 1/31/11)

Accidentally and intentionally “resized” planchets (CW 9/15/10)

“Crimp marks” (mostly found on off-metal errors 5c/1c, 5c/10c)

Rockwell test mark in planchet (circular or oval dimple) (ES July/Aug 2006; CW 10/15/18)

Planchet with adjustment marks (gold or silver planchets filed to reduce weight)

Edge rolled, squeezed, and folded-over (or with thin apron produced) (CW 11/15/10; 1/23/12, 6/15/20)

Pre-plating damage (zinc cents) (CW 1/23/12)

Post-plating damage (zinc cents) (CW 11/15/10)

Scraped-in debris (CW 2/23/15; CWK 9/23/25)

Repetitive pre-strike damage (CW 12/15/14)

Other forms of pre-strike damage

Gouged (CW 1/14/19)

Crushed (CW 4/13/15)

Scraped (CW 2/23/15)

Torn

Crumpled (CW 8/15/11)

Inter-strike Damage (CW 1/9/12, 8/20/12)

Cancelled or defaced between strikes (CW 3/25/13)

Trans-strike damage (CW 7/12/21; CWK 5/27/25)

Wrong planchet and off-metal errors

Wrong planchet, correct composition

Off-metal

Domestic planchet (CW 6/22/20)

Foreign planchet

Comprehensive Error-Variety Checklist

Unidentified origin and purpose (orphan) (ES Sept/Oct 2006, Nov/Dec 2006, March/April 2011, May/June 2011; CW 5/10/10, 12/19/11, 1/30/17, 11/30/20, 4/4/22)

Defective and damaged off-metal planchets (CW 3/21/16)

Foreign denomination struck on U.S. planchet

Pure copper quarters and dimes (covered under bonding mill errors)

Pure clad dime (covered under bonding mill errors)

Wrong stock errors (CW 2/20/12)

Correct composition

Off-metal (e.g. 1987-P nickel struck on clad quarter stock) (CW 4/22/13, 9/23/13, 9/10/18)

Transitional stock planchets (CW 9/23/13)

Business strike on special off-metal planchet (CW 2/10/20)

(e.g., 1974-D and 1977-D silver-clad Eisenhower dollar)

Special strike on business planchet (CW 2/10/20)

(e.g. 1973-S Eisenhower dollar on Cu-Ni clad planchet)

Business strike on proof planchet (CW 11/14/11)

Proof strike on business planchet

Wrong date error (covered under mules and die manufacturing errors)

Double denomination errors (CW 10/3/22)

Same year

Different year

Over pre-existing off-metal error (ES Sept/Oct 2017); CW 2/10/2014)

Dual country (CW 3/21/11)

Same year

Different year (CW 3/21/11)

Intentional overstrikes (not an error)

Transitional planchet errors ("wrong series") (ES Sept/Oct 2001; CW 3/28/16, 8/22/16)

Composition/year mismatch with non-overlapping production schedule

1943 bronze cents (CW 4/11/16)

Composition/year mismatch with overlapping production schedule

1965 silver dimes and quarters

1964 clad dimes and quarters

Intra-year design/composition mismatch

1991 Russia 10 kopek (ES Sept/Oct 2001)

Forward-jumping transitional planchet errors (CW March 20, 2017)

Transitional/wrong denomination error

(e.g. 1965 quarter struck on silver dime planchet)

"Long pause" transitional planchet errors (CW 4/5/21)

Struck on smaller planchet or coin

Struck on same size planchet or coin

Struck on re-sized planchet (dime design struck on cut-down cent planchet)

Struck on larger planchet or coin (CW 8/22/22; CWK 8/20/25)

Comprehensive Error-Variety Checklist

1981 cent on nickel planchet, uniface reverse

1981 cent design on struck SBA dollar (several known)

1981 dime on cent cap

Canadian "assisted errors" 1977 - 1981

Struck on loose clad layer (covered under bonding mill errors)

Weld seam planchets (controversial) (CW 9/24/12)

Coin struck on washers, gears, and other hardware

Coin struck on aluminum feeder finger (CWK 12/3/25)

Experimental planchets (CW 11/23/15, 5/23/16)

Experimental wartime planchets (CW 12/7/09, 12/21/09)

1999 and 2000 state quarters on experimental planchets (CW 11/26/01)

1999 Susan B. Anthony dollars on experimental planchets (CW 8/5/02)

1974 and 1974-D aluminum and bronze-clad steel cents (CW 1/13/03)

Bi-metallic errors (foreign only) (ES Nov/Dec 2005)

Misaligned core (ES May/June 2007; CW 3/6/23)

Misaligned center hole (ES Sept/Oct 2007)

Well-seated core (CW 3/6/23)

With misaligned core (CW 3/6/23)

Double-punched center hole

Unpunched center hole

Solid disc of ring metal (CW 3/26/18)

Solid disc of ring metal with embedded core

Solid disc of ring metal with core indent

Ring with incomplete punch (ES Sep/Oct 2007)

Core with incomplete punch

Struck outer ring (ES Jan/Feb 2007)

Struck core (ES Nov/Dec 2006)

From another denomination

From another country (ES Sep/Oct 2009, Nov/Dec 2011)

Struck by solid-denomination dies

Wrong core inserted (ES Sep/Oct 2013, CW 10/17/22)

Core-sized scrap disc of ring material inserted into disc

Wrong ring (ES March/April 2007, CW 10/10/22)

Ring accidentally punched from solid planchet

Ring accidentally punched from solid coin (ES Nov/Dec 2008)

Struck ring from another country (restruck)

Struck core from another country (restruck)

Unstruck core inserted into struck ring and then restruck

Comprehensive Error-Variety Checklist

- Abnormally small core (controversial)
- Abnormally wide center hole (controversial)
- Abnormally thin core
- Abnormally thick core
- Abnormally thin ring
- Abnormally thick ring
- Incomplete trilaminar core
 - Missing one layer (ES Mar/Apr 2010)
 - Missing two layers
- Core punched out of ring strip
- Ring punched out of core strip
- Bi-metallic planchet struck by solid-denomination dies
- Solid-denomination planchet struck by bi-metallic dies (ES Mar/Apr 2014)
- Bi-metallic planchet struck by wrong bi-metallic design

Part VI. Striking Errors

Unstruck blank ("Type I")

Unstruck planchet ("Type II")

Die alignment errors

- Rotated die errors (CW 6/21/10, 7/9/12)
 - Rotated die due to improper installation (fixed rotation)
 - Rotated die due to improper die preparation (fixed rotation)
 - (e.g., grinding flats in wrong spot)
 - Rotated die due to movement after installation (dynamic rotation)
 - Semi-stable rotated die errors (various causes)
 - Characterized by a limited range of motion, a limited number of positions, or the presence of a single dominant position (CW 7/9/12, 8/7/23)
 - Perfect medal rotation (CW 9/16/24)
- Pivoted die errors (probably involves entire die assembly) (CW 6/22/15, 10/21/19)
- Horizontal misalignment (CW 10/27/03, 7/25/16)
 - Hammer die (CW 2/1/10, 6/25/12)
 - Anvil die (ES Sept/Oct 2004, March/April 2005; CW 9/27/10; 9/9/13, 1/19/15, 4/16/18, 1/4/21, 7/19/21, 12/9/24)

Comprehensive Error-Variety Checklist

With misaligned collar

With broken collar

Dynamic misalignment (CW 6/25/12, 11/23/20)

Multiple misaligned strikes (CW 10/11/21, 11/29/21)

Stable misalignment

On double-struck coins

On first strike only (CW 8/31/20)

On second strike only (CW 5/19/08, 5/23/11, 9/9/13)

On both strikes

Alignment with off-center strikes (CW 8/19/19, 8/26/19)

Vertical misalignment (tilted die error) (ES Jan/Feb 2003, Sept/Oct 2003; CW 12/8/03, 12/20/10, 8/24/15, 10/24/16, 1/8/24)

Hammer die (CW 2/1/10, 6/17/13)

Anvil die

Dynamic misalignment (CW 10/24/16)

Stable misalignment (CW 1/29/14)

Associated with weak strike (2/1/10, 10/8/12, 8/16/21)

Associated with off-center strike (8/13/18)

Dual (bifacial) misalignments (dies often misaligned in different directions) (CW 11/28/11, 5/18/15, 1/9/17, 7/9/18, 8/26/19, 6/24/24)

Compound misalignments (CW 8/24/15)

Horizontal and vertical

Horizontal and rotated

Rotated and vertical (CW 12/20/10, 10/24/16, 5/25/20, 8/19/24)

Horizontal, rotated, and vertical (CW 8/24/15)

Forced misalignments (CW 8/28/17)

Collar Alignment Errors

Misaligned collar

Associated with misaligned anvil die (CW 4/16/18)

Associated with stiff collar error

Associated with elliptical strike clip

Rotating collar (detectable only when there's a collar break and a multi-coin progression)

Collar deployment errors

Partial collar (CW 2/24/20)

Flange with bevel

Flange without bevel

Tilted partial collar

Comprehensive Error-Variety Checklist

Undulating partial collar (CW 2/24/20, 7/25/22)

Re-entry partial collar

Incomplete ejection partial collar (CW 12/26/22)

Reversed partial collar (not an error)

Multiple steps (CW 3/15/21)

High deployment of collar with coin metal extruded beneath (doubtful)

Broadstrikes

Centered

Uncentered (CW 7/20/15)

Cupped broadstrike

Forced broadstrike (CW 1/10/11, 11/30/15)

Partial collar broadstrike (shows incomplete, tilted partial collar)

Stiff collar errors (ES, Nov/Dec 2000; CW 8/25/08, 4/16/18)

Normal die installation

Inverted die installation

Association with misaligned dies

Association with misaligned collar

Strong collar scar

Strong collar scar with cupping

Planchet forced completely into fully deployed collar ("ram strike") (ES Nov/Dec 2000, March/April 2001)

Elliptical strike clip (ES March/Apr 2000; CW 4/5/10)

Associated with weak strike (CW 2/11/13)

Collar shimmy (CW 8/21/17, 9/11/17)

Weak Strikes (ES, Sept/Oct 2000; CW 5/3/04, 9/11/06, 6/18/07, 3/1/10, 5/23/11, 6/23/14, 8/27/18, 3/2/20, 10/26/20, 11/27/23; CWK 8/25/25)

Caused by insufficient die approximation

Caused by abnormally low ram pressure

Invisible strikes (ES March/April 2003, Nov/Dec 2003, March/April 2004, Nov/Dec 2006, May/June 2010; CW 5/3/10, 9/20/10)

With indent

With partial brockage

With struck-through error

Followed/preceded by strong strike (CW 7/13/20)

Stable series of weak strikes (CW 8/27/18)

Weak saddle strike

One strike weak, one strong (CW 4/8/13)

Both strikes weak (CW 12/12/11)

In combination with other striking errors

Rim-restricted first strike (CW 3/1/10, 10/10/11, 1/11/16, 2/19/18, 9/23/19)

Comprehensive Error-Variety Checklist

Rim-restricted second strike (CW 9/21/15, 2/13/17)

Skidding Coin Errors (CW 1/29/18)

Finned Rims (CW 7/6/20)

Caused by elevated ram pressure

Due to multiple strikes combined with reduced minimum die clearance (CW 12/7/20)

Due to stacked coin metal discs

Abnormally Strong Strikes

Due to elevated ram pressure

Finning (CW 8/23/04, 7/6/20)

Extremely large broadstrike (CW 7/26/10)

Extreme stretch strikes with both sides die-struck

Encircling pressure bumps (CW 12/2/23, 5/13/24)

Due to stacked coins or planchets (CW 12/7/20)

Localized, due to die tilt

Stutter Strikes (ES Nov/Dec 2001, Sept/Oct 2007; CW 12/28/09, 7/25/11, 8/10/20)

Due to spasmodically collapsing or stiff collar (Type I)

Due to planchet flexion (associated with indents and brockages) (Type II)

Due to contact with bent planchet or coin (Type III)

On face struck by anvil die (CW 8/26/13)

Concentric strike lines generated by a single strike (ES Jan/Feb 2012; CW 12/26/11)

Machine doubling (a.k.a. machine doubling, machine doubling damage, machine damage doubling, mechanical doubling, strike doubling, shift doubling, “ejection doubling”) (ES July/Aug 2006; CW 3/15/10, 7/24/17, 12/23/19, 3/30/20)

“Push doubling” (marginal shelving and sharp interior duplication) (CW 1/9/23)

“Slide doubling” (smeared design) (CW 8/14/17)

Compensatory, retrograde machine doubling (CW 4/29/24)

Rotational machine doubling (CW 8/10/15)

Intermediate forms

Multiple machine doubling in one direction (two, three, and four offset ranks)

Machine doubling in more than one direction (up to three directions)

Comprehensive Error-Variety Checklist

Machine doubling on both faces of same coin (CW 3/15/10, 12/23/19)

Rim-restricted design duplication (see separate category)

Affecting incuse design elements (CW 2/6/06, 1/16/12)

Located on top of die break

Located on top of die attrition error (CW 4/14/14)

On out-of-collar strikes (rare) (CW 11/25/19, 11/21/22)

Rim-restricted design duplication (form of machine doubling) (CW 10/6/03, 2/22/10, 5/24/10, 12/6/10, 5/13/13, 12/30/13, 3/8/21, 4/12/21)

2004 cent (ES March/April 2007; CW 2/22/10)

1994 cents (CW 5/24/2010, 8/22/2011)

1981-P quarter and 1979-D dime (CW 12/30/13)

Presidential dollars (ES, Sept/Oct 2007) (CW 2/22/10, 12/6/10)

Foreign coins (CW 2/22/10)

On face struck by anvil die (CW 10/21/13, 7/20/20)

Bifacial (CW 7/20/20)

In conjunction with push doubling (CW 12/6/10, 7/20/20)

Ejection Doubling (CW 11/7/22)

Skidding Die Errors (CW 8/15/16, 11/27/17)

Design ablation error (design scraped off by die movement on 2nd strike) (ES March/April 2008, Jan/Feb 2011; CW 9/13/10)

Skidding misalignment (CW 8/15/16)

Two-stage (CW 4/13/20)

Design Decapitation Error (top of design scraped off)

Slide doubling (see Machine Doubling)

Combined with tilted die (CW 9/27/21)

From broken die (CW 7/26/21)

One-sided double-strikes (ES March/April 2000, Jan/Feb 2002, July/August 2003)

Hammer die rotated (CW 11/29/10)

Instantaneous

Gradual

Hammer die misaligned (CW, 5/19/08, 5/23/11, 9/9/13, 3/8/21, 4/24/23)

Instantaneous

Gradual

Anvil die misaligned (CW 9/9/13, 8/31/20)

Comprehensive Error-Variety Checklist

Anvil die rotated (at least one known example, a proof Kennedy half dollar)

Rotated, with rocking die (CW 5/25/20)

False one-sided double strikes (CW 11/29/10)

Flat Field Doubling (Imperfectly Aligned Proof Strikes) (CW 4/29/13)

Off-center strikes

Cupped off-center strikes

With collar scar

Without collar scar

Uniface strikes

Stretch strikes

Uniface

Die struck on both faces (covered under high pressure strikes)

With unexplained, flat dent at opposite pole

(not a “sideneck strike”)

Chain strikes (CW 4/12/10)

Normal chain strikes with straight edge

External chain strikes (ES Jan/Feb 2003)

Concave, convex, sinuous, and irregular chain strikes (ES Jan/Feb 2001, July/August 2002; CW 4/12/10)

Foreign Object Chain Strikes (CW 5/25/15)

Chain strike against feeder

Machine Part Impingement (CW 5/25/15)

Bilateral (CW 11/25/24, CWK 12/3/25)

Unilateral

Saddle (Tandem) Strikes (CW 6/27/11)

Hump present

Hump absent

Inverted hump (hump points toward reverse die) (CW 9/19/16)

Buckling toward anvil die

Comprehensive Error-Variety Checklist

Due to inverted die setup

One off-center strike underthrust (CW 9/2/24)

Die position

Head-to-head

Head-to-base (early to mid- '70s, mainly)

Face-to-back

Other orientations

Gap between adjacent dies

Narrow

Wide

With inverted die installation

Sideneck strikes ("one-die saddles") (Expanding planchet collides with side of die neck) (CW 5/30/11)

On quarter dollars (CW 12/9/19)

Broadstrikes (covered under collar deployment errors)

Split Plating Doubling

Foldover Strikes (ES July/August 2007; CW 10/10/05, 8/15/11, 1/30/12, 9/15/14)

Out-of-collar

In-collar

With edge strike persisting

On struck cents (normal and error)

Double foldover strikes ("Z-fold")

Axial fold

Paraxial fold

Inward fold

Outward fold

Edge Strikes (CW 7/18/11, 10/12/15, 3/1/21)

Flat

Bent

With off-center strike or broadstrike produced by continuation of downstroke

Extrusion strikes (an effect, not an independent error) (ES March/April 2004; CW 10/24/11, 1/15/18)

Comprehensive Error-Variety Checklist

- With indent or partial brockage
- Between two indents or partial brockages
- With struck-through error
 - Struck through clipped planchet
- With retained cud

Multiple strikes (CW 3/30/15)

- On-center/Off-center
- In-collar/out-of-collar
- Flipover
- Numerous closely-spaced strikes (ES Nov/Dec 2004; CW 1/11/21)
- Involving second die pair
- Delayed second strikes (ES July/August 2007; CW 1/9/12, 6/13/16, 6/6/22, 1/23/23)
- Dual-date double strikes (CW 6/13/16)
- Proof double strikes (CW 9/19/22)

Coins thinned by strikes

- Die-struck on both faces
- Uniface (CW 12/7/20)
- In-collar (CW 6/3/19, 12/7/20)
- Out-of-collar

Indents

- In-collar/out-of-collar
- Partial
- Full (CW 7/30/12)
 - Centered
 - Uncentered
- “Internal” indents (CW 11/1/10, 2/8/16)
 - On obverse
 - On reverse
- Multiple indents
- Irregular indents
 - Produced by error coins
 - Produced by clipped planchet
- Unexpectedly shallow indents (CW 12/28/20)

Comprehensive Error-Variety Checklist

Indent by smaller planchet (CW 5/19/08)

External disc impressions (CW 3/18/2019)

Brockages

Full

Centered

Uncentered

Rotated (relative to die-struck design on opposite face)

Partial

Conventional

Aligned partial brockage (ES, May/June 2005; CW 1/17/11, 12/5/22)

From partial die cap

From elliptical clip coin

From elliptical strike clip

Internal partial brockage (CW 11/1/10)

In-collar/out-of-collar

From another denomination (ES May/June 2005, CW 8/1/21)

From another error coin

From wrong planchet error (CW 11/28/22, 6/12/23; CWK 8/4/25)

From mangled and crumpled coins (often multi-struck) (CW 10/2/23)

From weakly-struck coins (CW 11/20/23)

From die caps derived from error coins (CW 10/7/24)

Flipover brockage (CW 4/23/12)

On obverse

On reverse

First-strike brockage

“Mirror” brockage (unexpanded, undistorted) (CW 6/13/11, 3/17/14, 5/6/19, 10/28/19, 7/11/22, 6/27/22, 4/10/23)

Distorted first-strike brockages

Mid-stage and late-stage brockages

By struck fragment (CW 6/11/12)

Aligned with opposite, die-struck design

Not aligned with opposite design

From thin pieces of metal (CW 7/23/18)

From struck die fill (very rare) (CW 8/20/18)

From large dropped filling (CW 5/13/19)

Multiple brockages (CW 9/26/11)

From multiple strikes

From clashed cap

From multi-struck coin (CW 7/4/22)

Comprehensive Error-Variety Checklist

From more than one coin in striking chamber

From coin trapped between die cap and planchet

Clashed cap strikes (CW 8/30/10, 11/21/11, 1/13/14)

From a late-stage die cap that clashed with the opposite die

From a uniface die cap that clashed with the opposite die

From an early-stage die cap that clashed with the opposite die

From a cap that was striking counterbrockages that clashed with the opposite die

From a flipover die cap that clashed with the opposite die (CW 1/13/14)

Counterbrockages

Full (CW 10/11/10)

Partial (CW 11/8/10)

In-collar/out-of-collar

Counterbrockage of obverse on obverse

Counterbrockage of reverse on reverse

Flipover counterbrockage (CW 4/19/21)

Early, middle, and late-stage counterbrockages

From another error coin

Brockage-counterbrockage combination (8 types) (ES, Nov/Dec 2009) (CW 11/12/12)

Multiple counterbrockages (ES March/April 2010)

On second strike

Rebound counterbrockage (always on 3rd strike) (CW 11/9/15, 3/4/2024)

Secondary counterbrockage (CW 4/19/21, 9/23/24)

Grease-generated counterbrockage (CW 4/11/22)

Horizontal lipping (CW 11/30/15)

In conjunction with indents, partial brockages, and struck-through errors

Die caps (CW 8/6/13, 1/7/20)

Hammer die caps (usually the obverse die)

Raised design on working face

Brockage on working face

Uniface die caps

Complex die caps

Anvil die caps (usually the reverse die)

Cupped toward anvil die, hammer die, both dies at opposite poles, or expanded in the horizontal plane

Comprehensive Error-Variety Checklist

Partial (off-center) die caps (hammer or anvil) (CW 1/17/11)

With cupping

Without cupping

Detached cap bottoms (ES March/April 2001, May/June 2001)

Clashed caps (CW 1/22/24)

Die caps derived from error coins (CW 10/7/24)

Capped die strikes (generic -- without identifiable images)

Struck by uniface die cap

Struck through late-stage die cap

Struck through cap-like obstruction

Struck through split or torn cap

Proportional design expansion (both faces struck through die cap or cap-like obstruction) (CW 11/11/13, 5/28/18)

Struck by impaled die cap (CW 6/10/13)

Capped die doubling (doubling associated with capped die strikes) (ES Sept/Oct 2005; CW 6/18/12, 5/16/22)

Shifted/rotated cap strikes (ES May/June 2000, March/April 2012; CW 11/21/11)

Correctly-facing incuse design elements (CW 11/3/08, 6/28/10, 6/11/12, 10/19/15, 8/12/19, 10/23/23, 11/13/23)

Multiple sets due to several preceding shift-and strike events

Unexplained, close raised doubling

Expansion ripples

Other forms of close raised doubling

Incuse doubling surrounding raised elements (CW 8/24/20)

“Struck-through” errors

Struck through fragment

Struck through die fragment (CW 7/15/24)

Struck through fine particles (CW 6/10/24)

Struck through clipped planchet (ES Sept/Oct 2002; CW 8/25/14, 6/3/24)

Struck through thin struck fragment (CW 6/11/12, 10/19/15, 8/12/19, 10/23/23, 11/14/23, 8/26/24)

Face-up (correctly-facing incuse design elements)

Face-down (mirror-image design elements)

Trapped between planchet and opposite die (mirror-image design elements)

Struck through detached lamination flake (CW 2/7/05, 6/11/12)

Struck through clad layer

Comprehensive Error-Variety Checklist

- Clad layer unstruck
- Clad layer previously struck
- Struck through reeding (CW 11/14/16, 8/21/23)
- Struck through split planchet
 - Obverse
 - Reverse
- Struck through hardware (bolts, screws, washers, etc.) (CW 3/7/11)
- Struck through chain (CW 4/22/24)
- Struck through feeder (ES Nov/Dec 2005; CW 3/7/11, 12//25/23)
- Struck-through unidentified machine part (CW 6/24/13)
- Struck through emery disc (CW 12/16/02)
- 1986 Silver Eagles
- Struck through “grease” (die fill)
 - Assorted ingredients, textures, viscosities, and consistencies (smooth, coarse, stiff, viscous, etc.)
 - “Greasy ghosts” (ghost images from grease accumulations) (CW 7/5/10, 7/10/17)
 - Grease-mold doubling (ES March/April 2006, July/August 2006, Nov/Dec 2008; CW 8/19/13, 10/20/14, 10/14/24)
 - Grease-mediated radial smear (CW 7/31/17)
 - “Spackled dies” (intentionally applied grease) (CW 10/18/21)
 - Bifacial grease strikes (5/22/23)
- Filled dies
 - Single design element (CW 6/29/20)
 - Multiple design elements
- Struck through bulging die filling (CW 1/16/17, 5/20/19)
- Filled collar /obstructed collar (ES Jan/Feb 2006; CW 9/22/14)
 - With flange
- Surface film effects (ES May/June 2002; CW 9/1/08)
 - Surface film doubling
 - Surface film afterimage
 - Surface film transfer
 - Surface film transfer with clash marks
- Dropped fillings (ES May/June 2003; CW 8/16/10, 6/11/12; 10/29/12)
 - Isolated elements (dropped letter, dropped number” (CW 2/7/05)
 - Conjoined dropped fillings (CW 8/16/10)
 - Large, multi-element dropped fillings (CW 4/19/10, 8/16/10, 11/14/22)
 - Retained dropped fillings
- Yanked-out fillings (CW 1/16/23)
- Struck through floating encrustation (on second strike) (CW 1/18/16, 6/18/18)
- Struck through miscellaneous foreign matter
 - Metal dust, shavings
 - Thread, string (CW 3/9/20)

Comprehensive Error-Variety Checklist

Cloth (CW 5/14/12, 12/3/18, 9/26/22)

String (CW 3/9/20)

Wire (CW 5/20/24)

Struck-through on edge (CW 5/20/24)

Feeder-applied struck-through errors (CW 11/18/13, 4/8/24)

Split or torn in two by struck-thru object (ES Nov/Dec 2007; CW 3/7/11, 7/13/15, 3/11/24, 7/1/24)

Retained struck-through errors (struck-in errors) (CW 7/18/16, 1/25/21, 9/13/21)

Embedded dropped filling (see above)

Embedded die fill (shapeless)

Scrap metal

“Staple” (bristle from wire brush)

Plastic (associated with bullion coins)

Metal foil

Cu-Ni?; associated with dimes and nickels

Copper foil (ES Nov/Dec 2007)

Rubbery material (from die cover?)

Die fragment (CW 2/6/23, 3/13/23)

Uniface strikes (cross-classified with Indents) (CW 7/30/12, 9/16/19)

In-collar (CW 12/5/22)

On second strike (CW 11/29/10, 9/16/19, 6/5/23)

“Augmented” in-collar uniface strikes (CW 9/14/20)

Out-of-collar

Centered

Off-center

Sandwich strike (coin struck between two coins or planchets) (CW 5/16/11, 10/31/16, 11/20/17, 5/28/18, 3/22/21, 11/4/24)

Partial

Full

Between two struck coins

Between two planchets

Between a coin and a planchet

Between struck coin and obverse die cap

Between obverse and reverse die cap

Nested coins (CW 3/16/20, 11/18/24)

Comprehensive Error-Variety Checklist

Mated pairs (CW 11/9/20)

Bonded coins

Pile-ups, clusters

Strike clips (ES July/Aug 1999, May/June 2001; CW 6/15/15)

Vertical shear clips (V)

 Sheared between die and collar alone

 Sheared between collar and overlying planchet

Horizontal shear clips (H)

Tensile strike clips (T)

Concave strike clips (V, H, T)

Elliptical strike clips (V, H, T) (CW 4/5/10, 12/5/22)

Straight strike clips (H)

Saddle strike/strike clips (H)

Detached reeding

From forced broadstrikes

From stiff collar

Torn-off fin

Coin shrapnel ("breakaway fragments")

Angular

Crescentic

Oval

Circular or sub-circular

Semilunar

Irregular

Intra-Strike Damage (Damage coincident with strike) (CW 5/30/2011, 12/20/21)

Flat contact facet at 6:00 opposite off-center strike

Machine part impingement on unstruck portion of off-center coin (CW 5/25/15)

Ejection damage to edge of unstruck perimeter

External struck-through errors (with cupping) (CW 3/25/19)

Comprehensive Error-Variety Checklist

Concave damage opposite off-center strike (CW 12/30/19)

Cupping (CW 12/7/09)

With and without collar scar

In a single strike

Associated with multiple strikes

With die caps

Cupping toward hammer die

Cupping toward anvil die

Expansion in horizontal plane

On unobstructed strikes (CW 3/18/19)

Spontaneous

Forced

By stiff collar

By outlying disc of coin metal

By foreign object or machine part

Impact-Induced Warping (CW 3/16/15, 1/13/20)

Crenellated rim (generated during ejection) (CW 10/23/17)

Malrotation Errors (multi-sided coins only) (CW 3/23/15, 11/8/21)

Proof edge lettering errors (generated during strike by segmental collar)

Weak edge design due to segmented collar not closing fully (wide seams)

Segments arranged in incorrect sequence (see Die Installation Errors) (CW 4/7/08)

Part VII. Post-Strike Mint Modifications

Edge lettering applied after strike (incuse) (Business strike Presidential dollars, Native American dollars, and final Sacagawea dollars)

Absent lettering (CW 4/26/10)

Due to bypassing the lettering device

Due to excessive spacing between steel wheel and lettering die

Vertically misaligned letters (cut off at top)

Comprehensive Error-Variety Checklist

Vertically misaligned letters (cut off at bottom)
Wrong spacing between incuse design elements
Obliquely-oriented lettering
Overlapping letters
Two sets of letters
Skipped letters
Letters on wrong planchet
 2007-D Sacagawea dollar with Presidential edge lettering (CW 7/9/12)
Chipped letter
Lightly impressed letters (CW 4/26/10)
Unusually deep letters (Coin squeezed too hard, leaving a rippled margin)
Incomplete letters
Smeared letters
Edge letter font subtypes (CW 10/18/10)
Wrong date on edge (doesn't match any President of that year) (CW 2/22/10, 3/1/10)
 2009 Zachary Taylor dollar with 2010-D edge inscription (CW 2/22/10, 3/1/10)
Edge lettering on unstruck planchet (CW 3/26/07, 3/17/08)
Lettering die inclusion (CW 9/14/15)

Note: Edge lettering and other edge design elements may be impressed during upsetting, during the strike, by a special machine before the strike, or by a lettering device after the strike. Similar-looking defects can occur in each of these processes. Any edge design that forms a closed interlock between the edge of the coin and the collar cannot be produced during the strike since that will prevent ejection of the coin after the strike.

Post-strike chemical treatment

Anti-tarnishing Experimental Rinse on Sacagawea dollars

Matte or frosted finish applied after strike

Finish omitted on one or both faces (CW 8/1/11, 8/29/11)

Part VIII. Post-Strike Striking Chamber Mishaps

Post-strike die contact

Ejection impact doubling (post-strike design transfer from die) (ES Jan/Feb 2005; CW 8/1/05, 8/29/05, 2/25/13, 2/26/2018, 4/9/18, 10/8/18, 4/12/21)

Comprehensive Error-Variety Checklist

Ejection damage

Crenellated rim (CW 10/23/17)

Feeder/ejector scrapes on coin (CW 3/19/18, 3/7/22)

Part IX. Post-Strike Mint Damage

Illicitly applied die impressions (CW 11/16/20, 1/4/21, 2/1/21, 8/29/22)

Pseudobrockage (false brockage) (ES Nov/Dec 1999) (CW 8/23/10)

Fused coins

Rolled and squeezed

Accidentally resized

Other (folded, crushed, scraped, bent, etc.)

Part X. Wastebasket/Composite Categories

Ghost images (CW 8/1/11)

Progressive indirect design transfer (a.k.a. internal metal displacement phenomenon, ghosting, heavy design transfer) (CW 6/7/10)

Worn clash marks

Thin planchet (CW 8/2/10)

Split planchet (CW 8/31/15)

Split-before-strike (CW 8/2/10)

Split after-strike

Coin thinned by strike(s) (CW 6/3/19, 7/8/24)

Weak strike (CW 4/11/2011)

High pressure strike

“Greasy ghost” (CW 7/5/10)

Surface film afterimage (CW 5/2/11)

Comprehensive Error-Variety Checklist

Surface film transfer (CW 5/2/11)
Split plating afterimage (CW 5/2/11)
Coarsened crystallite afterimage (CW 5/2/11)
Slide zone ghost letters (11/16/15)
Incuse ghost images associated with capped die strikes (CW 10/25/21)

Doubling

Die Deterioration Doubling
 Raised
 Incuse
Machine Doubling
Stutter strikes (3 types)
“Abrasion doubling” (extremely doubtful) (CW 7/15/13)
Split plating doubling (CW 3/26/12)
Surface film doubling
Grease-mold Doubling (CW 8/19/13)
Longacre doubling
Offset laser-etched frosting on proof dies (CW 2/21/2011)
Plating disturbance doubling (CW 3/28/2011)
Flat-field doubling (imperfectly aligned proof strikes (CW 4/29/13)

Embedded matter (CW 12/14/09)

Poured-in
 Slag
 Intrinsic metallic inclusion
Rolled-in
Punched-in (by blanking die)
Squeezed-in (upset mill inclusion) (CW 9/6/10)
Scraped-in (CW 2/23/15)
Struck-in
Lettering die inclusion (CW 9/14/15)

Edge overhangs (CW 11/30/2015)

Partial collar errors
Horizontal lipping
Stiff collar errors
Forced broadstrikes



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- Marc One - Marc Crane is a PCGS, NGC and CAC authorized submission center and dealer. Marc Crane, the owner, is PNG member dealer #565 (of 247 prestigious members) and is nationally recognized as a grading and US coin expert. In addition, Marc is a Whitman Redbook contributor and is perennially recognized in the Redbook's US pattern section. Marc also contributes to MintErrorNews.



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STOLEN COINS

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An Express Mail package was sent from the Las Vegas, NV Post Office to Torrance, CA on Saturday Jan 18th, 2025. It arrived tampered and without the coins:

1972 S MATED PAIR 1C/10C
NGC cert# 2138068-(001-002)

1972 PROOF THREE-COIN MATED PAIR PF 65
NGC cert# 6329750-(005-007)



If anyone has any information, please contact:

Mike Byers - 714-914-6415 - mike@mikebyers.com

Thank you

MAJOR ERRORS STRUCK BY PRIVATE U.S. MINTS - PART EIGHT -

by Jeff Ylitalo



Private U.S. Mints and in-house metal refineries have numbered in the dozens over the years. Major minting errors from silver rounds to gambling tokens are very popular and eagerly sought by collectors. Erratic record keeping of mintage numbers and

identifying which private mint produced major errors can be a challenge to research. It is in-fact on occasion impossible because many rounds and tokens were struck with no identification such as a specific mint's name, privy mark, or mintmark.

MAJOR ERRORS STRUCK BY PRIVATE U.S. MINTS - PART EIGHT

First is a large 1994 1 oz silver round commemorating the 1994 FIFA Soccer World Cup series. 1994 was the first time ever that final soccer matches for the World Cup were held in the United States. They were played in sixteen different US cities.

This first major error is both a Die and Striking error. It was struck with two different obverse dies and was double struck with the second strike being 50% off-center. The two mismatched obverse dies represent two different countries. One obverse die was designed with the national flag representing the Republic of Korea (ROK) while the other obverse die was designed with the national flag representing the country of SPAIN.

NOTE: A normal reverse die for this 1994 World Cup series is as follows; Reverse die with letters and numerals; ENVORMINT, WorldCupUSA94, ONE TROY

OZ. and .999 FINE SILVER.

The U.S. private mint striking this error was known as ENVIORMINT. ENVIORMINT was established in 1992 and located in MT. Prospect, IL. ENVIORMINT was also a licensee to produce rounds in bronze, silver and gold for the MLB, NBA, NFL, and NHL. ENVIORMINT designed and struck over one thousand different sports and entertainment venues. ENVIORMINT had their own on-site refining and minting facilities. ENVIORMINT ceased bullion round operations in 2000. **Note:** ENVIORMINT evolved from the Chicago Land Paper Recycling (CPC) founded in 1975. The owner, Jon Obie, discovered an environmental friendly technique to reclaim silver from photographic waste film. CPC then began selling reclaimed silver on the open market in the early 1980's and

MAJOR ERRORS STRUCK BY PRIVATE U.S. MINTS - PART EIGHT

began striking silver rounds one of the more intriguing stories prior to the establishment of of a private U.S. MINT. ENVIORMINT in 1992. This is



MAJOR ERRORS STRUCK BY PRIVATE U.S. MINTS - PART EIGHT



MAJOR ERRORS STRUCK BY PRIVATE U.S. MINTS - PART EIGHT

Next is a Parliament Shield 1 oz silver round with an American Eagle and Balance Scales design.

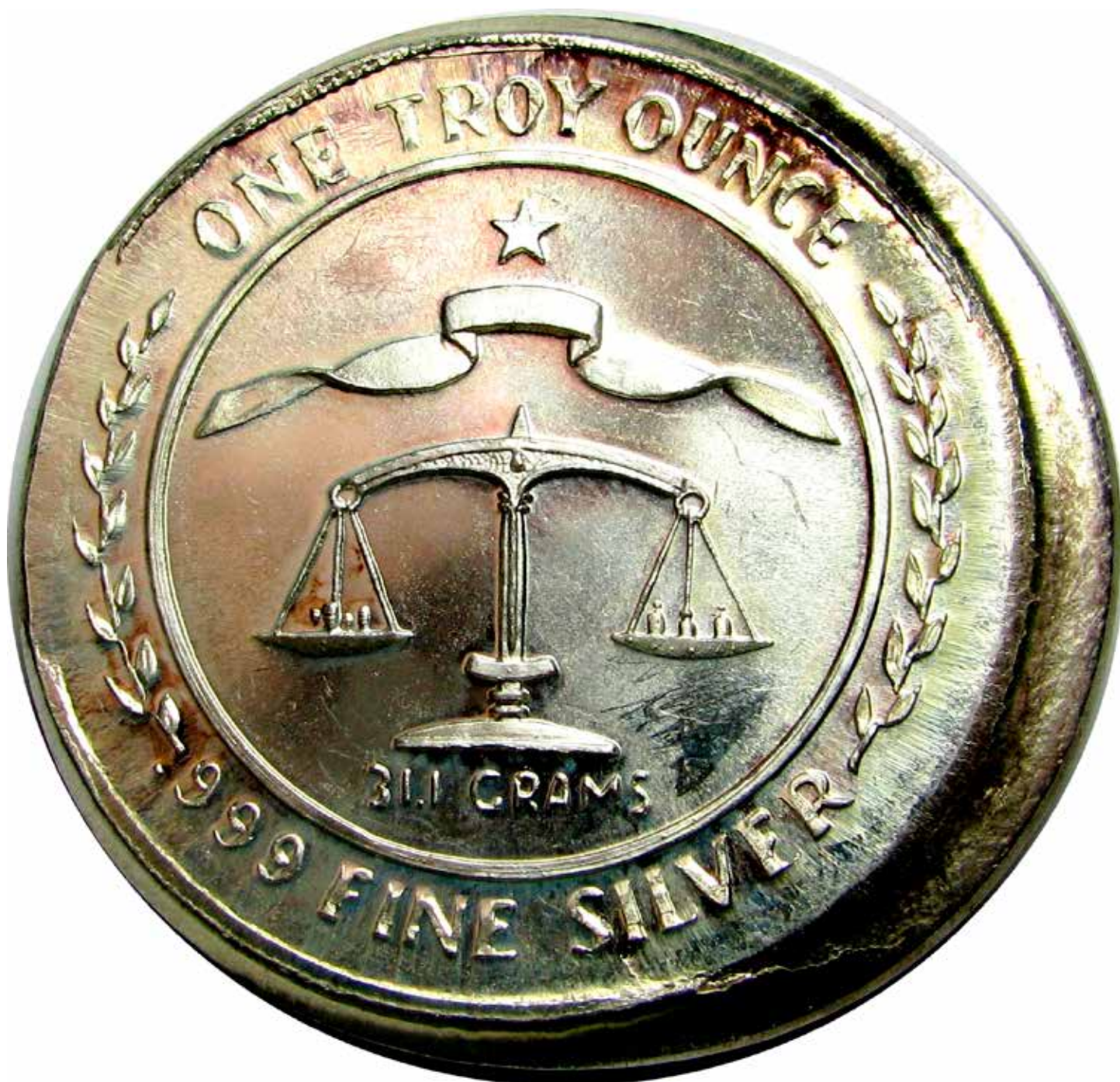
broadstrike outside of the collar with no edge reeding present (a normal round of this issue is fully reeded).

This silver round was largely



MAJOR ERRORS STRUCK BY PRIVATE U.S. MINTS - PART EIGHT

This “Parliament Shield” silver round and was struck by Republic Metals Corporation (RMC) in 1983 and 1984. During its heyday RMC refined over 3000 tons of silver per year. RMC began operations in 1980 in Miami, Florida and ceased operations in 2019.





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1983 Cents on pre-1983 Copper Cent Planchets

by Saul Teichman of USPatterns.com

1983

1) GreatCollections.com 7/28/2024 - PCGS65RED 49424134



1983 Cents on pre-1983 Copper Cent Planchets

2) StacksBowers 4/2024 - NGC64RB 6493071-001



3) Heritage 4/2014 - PCGS63RB 27253310



1983 Cents on pre-1983 Copper Cent Planchets

4) Heritage 12/2013 - PCGS62RB 27958616



5) StacksBowers 2/2014, StacksBowers 3/2026 - PCGS62BN 28483687



1983 Cents on pre-1983 Copper Cent Planchets

6) Heritage 1/2020 FUN - NGC61RB 4426868-001



7) Heritage 8/2020 - NGC61BN 4657415-002



1983 Cents on pre-1983 Copper Cent Planchets

8) StacksBowers 11/2015 - PCGSAU58RB 28790387



9) GreatCollections.com 3/6/2022 & 7/24/2022 - PCGSAU58RB 44229930 on 2.92 grain planchet



1983 Cents on pre-1983 Copper Cent Planchets

10) 13-year old Kentucky child who watched the YouTube channel RobFindsTreasure, StacksBowers 3/2026 - PCGSAU58BN 56585878



11) Heritage 8/2014 ANA - PCGSAU55B 29257924



1983 Cents on pre-1983 Copper Cent Planchets

12) Heritage 10/2012 - PCGS genuine environmental damage
24526724



13) GreatCollections.com 9/9/2018 - ANACSAU58 details damaged
619127



1983 Cents on pre-1983 Copper Cent Planchets

14) GreatCollections.com 11/25/2018 - ANACSXF45 struck thru grease 641378



1983-D

1) StacksBowers 8/2017ANA - PCGSAU55BN 27859656



uspatterns.com

The Society of U.S. Pattern Collectors is dedicated to the study of many of the rarest coins struck at the U.S. Mint: patterns, die trials and experimental pieces.

Welcome to The Society of U.S. Pattern Collectors!

For those of you not familiar with this fascinating area of numismatics, patterns are prototypes for coins that, for the most part, were never approved for circulation. Most patterns are very rare, some unique, and others unknown outside of museums.

A good place to start learning about these pieces is our Beginner's Corner which includes a page on How to use this Website or the Photo Gallery which contains examples of many of the different pattern issues.

The United States Mint produced more than 1000 different patterns, as well as many die trials and experimental pieces. Despite the great rarity of many of these individual items, the great variety makes the series surprisingly collectable.

There are relatively few collectors specializing in United States pattern coinage. Most of these collectors target specific areas. For example, there are collectors who specialize in Indian Cent patterns, others collecting Morgan dollar patterns, and so on.

In addition to these specialists, there are thousands of collectors of regular issue United States coins who try to buy a few patterns to complement their collections. Many of these historical coins have wide appeal and are surprisingly affordable. There are many collectors who, for example, would like to own an 1855 Flying Eagle large cent (J-167, about 500 pieces struck) to go with their collection of large cents or with their collection of Flying Eagle small cents.

Extremely Rare Double Struck Mexico Gold 8 Escudos

by Mike Byers (mikebyers.com)

This extremely rare double struck 8 Escudos has a multi-degree rotation between the two strikes. Considerable detail from the first strike is visible on

the obverse. It was purchased in a collection of raw 8 Escudos by a coin dealer in Florida, over the counter in his store.



Extremely Rare Double Struck Mexico Gold 8 Escudos

He submitted it to NGC and it was authenticated and certified as a mint error. It is significant that NGC determined that there was enough rotation visible between the strikes to designate it as a double struck with rotation in the collar.

It has full luster, original gold toning on both the obverse and reverse, and is almost uncirculated. In my opinion, this gold mint error could have easily straight graded AU 58.

This 8 Escudos was struck at the Guanajuato Mint. The first known coinage from this mint was struck under Spanish colonial rule in 1812. The Mexican War of Independence from Spain ended on September 27, 1828.

This famous design was struck from 1828 through 1870 and is cataloged in Krause as KM 383.7. The obverse features a hand holding a cap above a book, while

the reverse portrays an eagle perched on a cactus holding a snake in its beak.

Mexican coinage centuries ago was hammered, not struck by a screw press (milled coinage). The planchets were crude, irregular and the striking was not consistent. Many mint errors occurred - off centers, double strikes and triple strikes, even on gold 8 Escudos, which were referred to as cob 8 Escudos.

This all changed in 1732 when milled coinage replaced hammered coinage in Mexico. Coins were struck on round planchets with a uniform look and very few mint errors. Major mint errors on milled coinage using a screw press are extremely rare on the gold 8 Escudos coins.

This double struck 8 Escudos would be a perfect addition to a Mexican coin collection or a collection of major mint errors.

Extremely Rare Double Struck Mexico Gold 8 Escudos

Considerable detail from the first strike is visible on the obverse:



Extremely Rare Double Struck Mexico Gold 8 Escudos



Extremely Rare Double Struck Mexico Gold 8 Escudos



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MINT ERROR COIN CHRONICLES: PLANCHET CRACK

BY NGC



*An ugly split in a coin's metal can
often be worth a pretty penny.*

Numismatic Guaranty Company® (NGC®) is the world's leading authority on mint errors, a popular segment of numismatics. In Mint Error Coin Chronicles, we take an in-depth look at a specific kind of mint error. This month's topic is the Planchet Crack.

Planchet Cracks occur when the planchet on which a coin is struck splits. This is often caused by impurities in the metal. It differs from a Die Crack, where the crack is in the die itself, which then manifests itself as a seam of metal interrupting the design on the struck coin.

MINT ERROR COIN CHRONICLES: PLANCHET CRACK

This Guatemala 1915 12.5 Centavos is graded NGC Mint

Error MS 64 BN for two errors: It was struck 30% off center and it has a Planchet Crack. It is offered in a Heritage Auctions sale in late October 2024.



MINT ERROR COIN CHRONICLES: PLANCHET CRACK

Another example of a Planchet Crack is this 1766 Pitt Halfpenny graded NGC Mint Error MS 63 BN. It realized \$5,750 at a Heritage Auctions sale in January 2010.



MINT ERROR COIN CHRONICLES: PLANCHET CRACK

This 1866 Three Cent Nickel graded NGC Mint Error MS 61

with a Planchet Crack realized \$960 in a Heritage Auctions sale in January 2022. A coin in the same grade without the error would be expected to sell for about \$150.



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Unique 1945-D Lincoln Cent Struck on a Philippines 10 Centavos 75% Silver Planchet

by Mike Byers (mikebyers.com)

This off-metal Lincoln Cent, struck on a 75% Silver Philippines 10 Centavos planchet, is unique for the date. It is 1 of only 2 documented examples

authenticated and certified by either PCGS or NGC. The other known example, dated 1944-D and certified AU 58 by PCGS, was sold in a Heritage auction for \$7,800.



Unique 1945-D Lincoln Cent Struck on a Philippines 10 Centavos 75% Silver Planchet

The U.S. Mints located in Philadelphia, Denver and San Francisco struck coinage for foreign countries from the mid-19th century through the 1980s. Especially coveted are the rarer and unique U.S. coins struck on foreign blanks during the Second World War.

This unique 1945-D Lincoln Cent struck on a 75% Silver Philippines 10 Centavos planchet is nicely centered with a full portrait, full date, and original mint luster and toning. It is perfect for inclusion in a collection of Lincoln Cents, Mint Errors, or unique coins.



Unique 1945-D Lincoln Cent Struck on a Philippines 10 Centavos 75% Silver Planchet

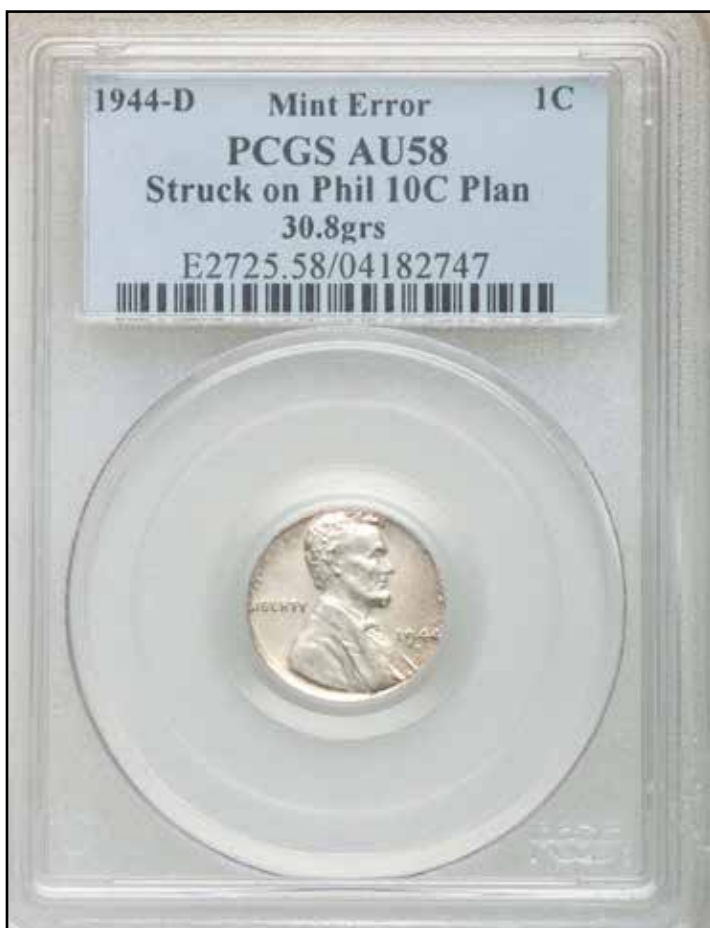
Lincoln Cents struck on Philippines planchets are so rare during World War II that there are only 3 known. The third one known is a 1944 Lincoln Cent on a Philippines 5

Centavos planchet. It was certified MS 62 by PCGS and was sold in a Heritage auction for \$6,462.50.



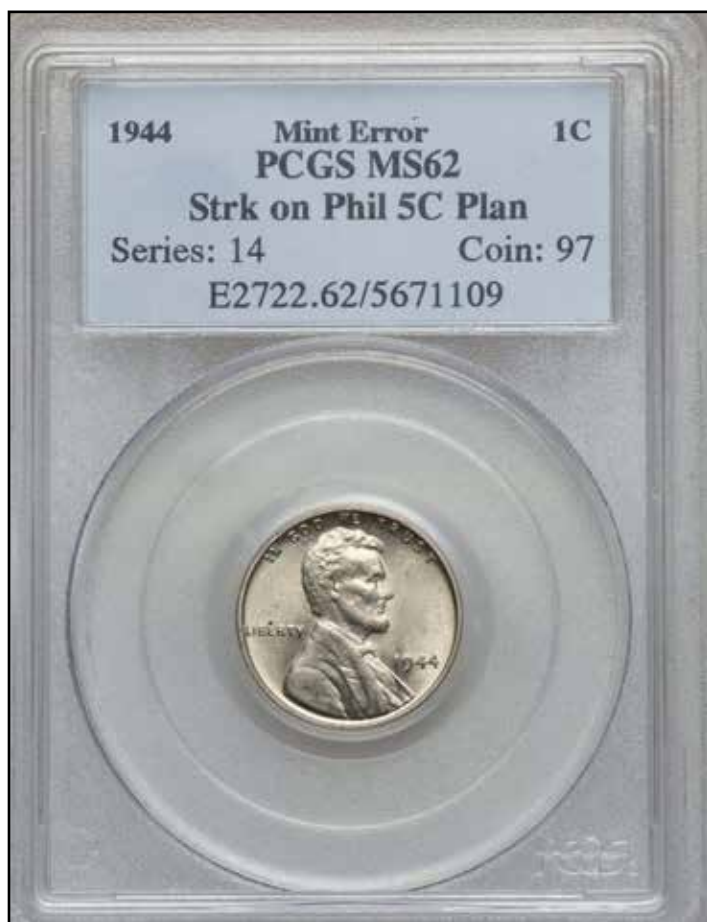
Unique 1945-D Lincoln Cent Struck on a Philippines 10 Centavos 75% Silver Planchet

The other known example struck on a Philippines 10 Centavos planchet is dated 1944-D and certified AU 58 by PCGS. It sold in a Heritage auction for \$7,800.



Unique 1945-D Lincoln Cent Struck on a Philippines 10 Centavos 75% Silver Planchet

The third known example struck on a Philippines planchet is a 1944 Lincoln Cent on a Philippines 5 Centavos planchet. It was certified MS 62 by PCGS and was sold in a Heritage auction for \$6,462.50.



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The NB of Middlebury Ch. # 1195
PCGS Very Fine 25
Sold for \$60,000



Buffalo, NY- \$50/100
Double Denomination 1882 Date Back
Fr. 559/567 The Columbia NB Ch. # (E)4741
About Uncirculated
Sold for \$57,500



Doubled Third Printing Fr. 1935-D \$2 1976
Federal Reserve Note
PMG Gem Uncirculated 65 EPQ
Sold for \$18,000



Fr. 2084-H \$20 1996 Federal Reserve Note
PCGS Choice New 63PPQ
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A Unique Swedish One Ore in Bronze

by Martin Wettmark

During the First and Second World War, coins in Sweden as well as many other nations were struck in iron due to the higher cost of striking them in bronze.

There is one ore known from 1919 struck in bronze, which was discovered in 1970 by someone looking through pocket change for unusual coins. It was later sold by an auction house in Stockholm 1989 and purchased by the well known numismatist Per-Göran Carlsson. He later sold the coin at Ahlströms auction house in 1997 from which I obtained it.

It is possibly some kind of trial strike and listed as unique in the reference catalogue *Sveriges Mynt 1521-2021* from 2022. There has been rumors of one more such coin but that is not confirmed. The coin is similar to the very rare US cents struck in bronze from 1943 which are legendary for American collectors. One clear advantage with being a Swedish coin collector is that one can own a very rare coin without being a multi-millionaire. Here I show the one ore in bronze together with the normal iron one 1919, which was struck with a mintage of 7.2 million coins.

A Unique Swedish One Ore in Bronze



A Unique Swedish One Ore in Bronze

GUSTAV V (1907–1950)

Nr/ No	Årtal/ Date/Jahr	01/0 EF/UNC/VZ/SGZ	01 EF/VZ	1+ VF/SS	1 F/S	Anmärkingar/ Remarks/Bemerkungen
1 ÖRE						
  						
339						
340						
341						
 						
342						
343b						
339	1916 R	—	—	—	—	Som 273b, men järn / As 273b, but iron Wie 273b, aber Eisen
340	1919 Unik (Privat)	—	—	—	—	Som 276, men brons / As 276, but bronze / Wie 276, aber Bronze
341	1920 XR	—	—	—	—	Som 277, men med hål / As 277, but with hole / Wie 277, aber mit Loch
342	1949 XR	—	—	—	—	Som 307, men brons / As 307, but bronze / Wie 307, aber Bronze
343a	1950 XR	—	—	—	—	Som 308/309, men tombakpläterat järn, märkt PROV / As 308/309, but tombac plated iron, marked PROV / Wie 308/309, aber tombakbeschichtetes Eisen, mark- iert PROV
343b	1950 XR	—	—	—	—	Som 308/309, men kopparkpläterat järn



RON GUTH, C.P.A.
German coin specialist

Ron Guth, Numismatic Expert

Ron Guth is a recognized authority on United States and German coins. He is a licensed Certified Public Accountant who has been involved professionally in numismatics for over fifty years as a collector, dealer, researcher, and writer. His books and articles have earned numerous awards, including the American Numismatic Association's Heath Literary award and the Olga & Wayte Raymond awards, the Numismatic Literary Guild's Best Numismatic Investment Book and Best Book of the Year awards, and the Professional Numismatic Guild's Best Book of the Year award. In 2003, Ron received the prestigious President's Award from the American Numismatic Association in recognition of his numerous contributions to numismatics. In 2021, Coin World named Ron as one of the Top Ten Most Influential People in Numismatics for the sixty-year period from 1960-2020.

Ron created the CoinFacts website (now PCGS CoinFacts) in 1999 and sold the website to Collectors Universe in 2004 (where it is now presented as PCGS CoinFacts). Ron served in various capacities at Collectors Universe, including Director of Numismatic Research, President of the Professional Coin Grading Service, and President of PCGS CoinFacts.

Currently, Ron serves as proprietor of GermanCoins.com and as Chief Investigator at the Numismatic Detective Agency, where he provides expert provenance on high-end coins.

GermanCoins.com

1983 Nickels on pre-1983 Copper Cent Planchets

by Saul Teichman of USPatterns.com

1983

1) Heritage 1/2011 FUN; Heritage 9/2019; Heritage 4/2021, Heritage 10/2022 - PCGS65RED 21494242



1983 Nickels on pre-1983 Copper Cent Planchets

2) Heritage 12/2026 - NGC63RB 6343716-002



3) Ken Potter - MS63, uncertified



1983 Nickels on pre-1983 Copper Cent Planchets

4) Barry Harding-StacksBowers 6/2024 - ANACS63BN 372076



1983-D

1) New England-Heritage 8/2010 ANA - NGC64RED 3025271-005





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Costa Rica 1948 50 Centimos Uncancelled Obverse & Reverse Hubs Unique In Private Hands

by Mike Byers (mikebyers.com)



This is a unique pair of uncanceled obverse and reverse hubs for the Costa Rica 1948 50 Centimos coin. The Royal Mint in London, produced the hubs & dies, and also struck the 1948 50 Centimos for Costa Rica.

Coin hubs are used to create coin dies that have the negative image of a coin's design. Coin hubs are the tools used to make coin dies; coin dies are the tools used to mint coins. Coin hubs are an essential component of the minting process.

Costa Rica 1948 50 Centimos Uncancelled Obverse & Reverse Hubs

The Costa Rica 50 Centimos is cataloged as KM #176. It has a weight of 7 grams, composition of copper-nickel (75% Copper, 25% Nickel) and a diameter of 26mm. The obverse portrays the national

arms and the date, the reverse portrays the denomination within a wreath. This coin with this design was only struck in 2 year, with a mintage of 600,000 in 1937 and 4,000,000 in 1948.



Costa Rica 1948 50 Centimos Uncancelled Obverse & Reverse Hubs

The Costa Rica 50 Centimos, although struck by the Royal Mint in London, was issued by the Banco Nacional de Costa Rica. This uncanceled hub pair is considered unique in private hands and is the only pair known

outside of the Central Bank in Costa Rica.

This numismatic discovery, unique in private hands, belongs in a coin museum or a world class coin collection.



Costa Rica 1948 50 Centimos Uncancelled Obverse & Reverse Hubs

Here is a regular issued Costa Rica 1948 50 Centimos coin:



Costa Rica 1948 50 Centimos Uncancelled Obverse & Reverse Hubs

*Here are the only known uncanceled dies
from Costa Rica in private hands for the
1897 2 Colones, 10 Colones & 20 Colones:*

**Uncancelled Costa Rica Proof Obverse Die
Made by the U.S. Mint in Philadelphia
For the Extremely Rare 1897 2 Colones
Struck at the Philadelphia Mint
Total Mintage of 500 Proof Gold Coins
Certified by NGC
UNIQUE NUMISMATIC DISCOVERY
Unpublished & Previously Unknown!!**



Costa Rica 1948 50 Centimos Uncancelled Obverse & Reverse Hubs

Uncancelled Costa Rica Obverse & Reverse Dies

Made by the U.S. Mint in Philadelphia

For the 1897 Gold 10 Colones

Struck at the Philadelphia Mint

Certified by NGC

Unique in Private Hands



Costa Rica 1948 50 Centimos Uncancelled Obverse & Reverse Hubs

**Uncancelled Costa Rica Obverse & Reverse Dies
Made by the U.S. Mint in Philadelphia
For the 1897 Gold 20 Colones
Struck at the Philadelphia Mint
Certified by NGC
Unique in Private Hands**



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Die Trials, Patterns &
Mint Error Coins that are
UNIQUE



U.S. Proof Error Coins
1968 to 1980



Martha Washington
Test Pieces



U.S. Coin Plaster Models
& Galvanos

MIKE BYERS INC

P.O. Box 401496, LAS VEGAS, NV 89140

MIKE@MIKEBYERS.COM | 714-914-6415



Contributor
to
COINWEEK



MINT ERROR COIN CHRONICLES: TRIPLE STRUCK, QUADRUPLE STRUCK AND MULTISTRUCK COINS

BY NGC



Coins struck three or more times are fascinating to examine and can be worth thousands of dollars.

Numismatic Guaranty Company® (NGC®) is the world's leading authority on mint errors, a popular segment of numismatics. In Mint Error Coin Chronicles, we take an in-depth look at a specific kind of mint error. This month's topic is Triple Struck, Quadruple Struck and Multistruck Coins.

MINT ERROR COIN CHRONICLES: TRIPLE STRUCK, QUADRUPLE STRUCK AND MULTISTRUCK COINS

We previously looked at Double Struck Coins, and Triple Struck is the step above that, where a coin receives three distinct strikes from the die. This Triple Struck Lincoln Cent was initially struck with the impression associated

with what looks like the upside-down date in these images. It was then subsequently struck twice, including the nearly completely Off-Center Strike at 1 o'clock on the obverse, where only part of the word TRUST is visible.



MINT ERROR COIN CHRONICLES: TRIPLE STRUCK, QUADRUPLE STRUCK AND MULTISTRUCK COINS



MINT ERROR COIN CHRONICLES: TRIPLE STRUCK, QUADRUPLE STRUCK AND MULTISTRUCK COINS

A Quadruple Struck coin has four distinct strikes. On this 1887 Indian Head Cent, you can look at the base of Liberty's neck and see the faint remains of two previous strikes below it. The fourth strike is the Off-Center Strike at the top of the obverse. This one occurred last, because it obliterated the design of the previous strike in this area.

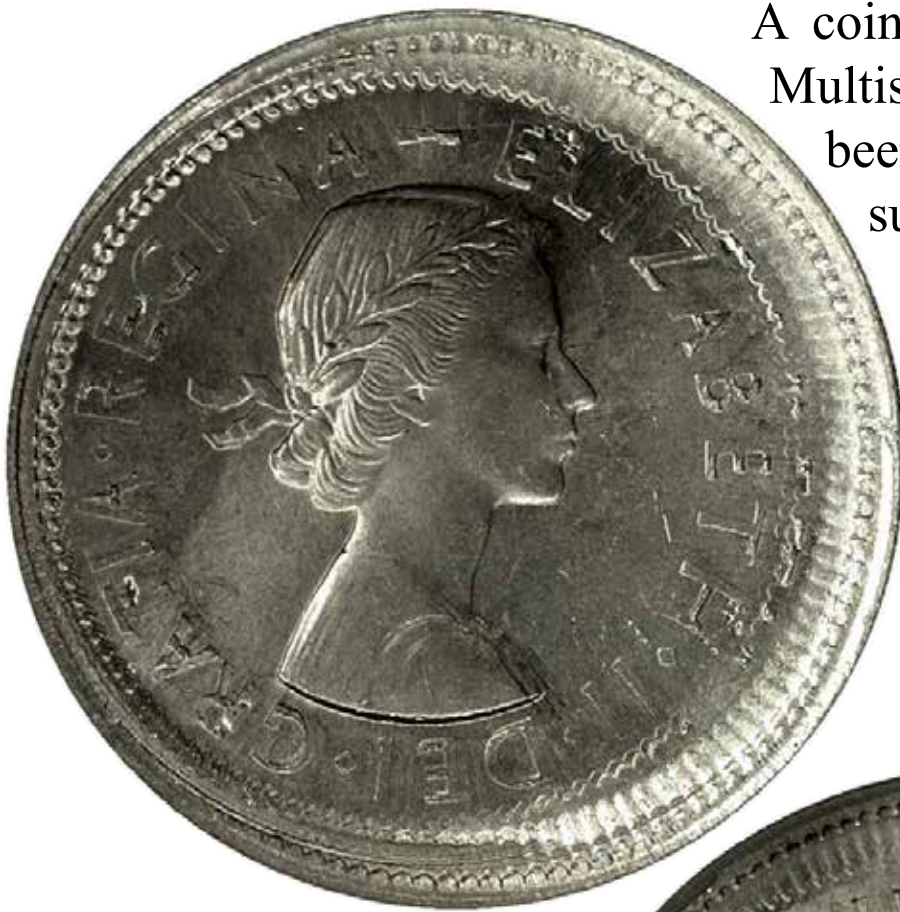


This particular coin realized \$2,640 in a Heritage Auctions sale in January 2022. (The NGC Price Guide lists a price well below \$100 for an example of this cent without any error.)



MINT ERROR COIN CHRONICLES: TRIPLE STRUCK, QUADRUPLE STRUCK AND MULTISTRUCK COINS

A coin that NGC attributes as Multistruck is one that has been struck multiple times, such as this Great Britain 1964 Florin. This coin realized \$360 at a Heritage Auctions sale in September 2024.



MINT ERROR COIN CHRONICLES: TRIPLE STRUCK, QUADRUPLE STRUCK AND MULTISTRUCK COINS

Other NGC-certified coins with these errors sold through Heritage Auctions include:

- an 1895 Liberty Nickel graded NGC Mint Error NS 62 - Multistruck, which realized \$78,000 in December 2022
- an 1889 Indian Head Cent graded NGC Mint Error MS 62 RB - Triple Struck, which realized \$5,040 in December 2022
- a 1973-S Kennedy Half Dollar graded NGC Mint Error PF 64 Cameo - Triple Struck, which realized \$4,680 in April 2020
- a 2000-P Sacagawea Dollar graded NGC Mint Error MS 67 - Triple Struck, which realized \$3,000 in September 2019
- an 1863 Seated Liberty Dime graded NGC Mint Error PF 65 - Triple Struck with Obverse Rotation, which realized \$2,875 in May 2007
- a 1964 Lincoln Cent graded NGC Mint Error MS 65 RB - Quadruple Struck with All Strikes Off Center, which realized \$2,340 in October 2022
- a 1999-D Roosevelt Dime graded NGC Mint Error MS 66 - Quadruple Struck, which realized \$2,040 in March 2023
- a Philippines 1967 10 Sen graded NGC Mint Error MS 65 - Quadruple Struck, which realized \$1,320 in April 2020
- a Connecticut 1787 Draped Bust Left graded NGC Mint Error XF 40 BN - Triple-Struck, which realized \$1,200 in November 2020
- a Canada 1978 Cent graded NGC Mint Error MS 64 BN - Triple Struck with All Strikes Off Center, which realized \$990 in February 2023

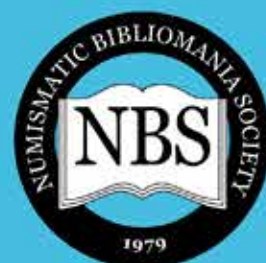
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COINBOOKS.ORG

Extremely Rare Netherlands East Indies Mint Error Struck at the Philadelphia Mint

by Mike Byers (mikebyers.com)

This is an extremely rare and fascinating major mint error off-metal from the Philadelphia Mint. The U.S. Mints in Philadelphia and San Francisco struck the Netherlands East Indies 1/4 Gulden and 1/10 Gulden coinage

during World War II. Experts in the U.S. and the Netherlands were consulted as well as searching through auction house catalogs and reference books and it appears that there are four known.



Extremely Rare Netherlands East Indies Mint Error Struck at the Philadelphia Mint

There are off-metals known from the Netherlands East Indies that were struck on U.S. cent planchets, nickel planchets and silver dime planchets. Additionally there are also U.S. cents, nickels and dimes that were struck on the Netherlands East Indies planchets. This occurred because the Philadelphia Mint simultaneously struck coinage for both the U.S. and the Netherlands East Indies during World War II.

The Netherlands East Indies 1/4

Gulden has a composition of 72% silver and 28% copper, with a weight of 3.18 grams and a diameter of 18.9mm. Instead, this mint error was struck on a 1/10 Gulden, which also has a composition of 72% silver and 28% copper, but with a weight of 1.25 grams and a diameter of 15mm.

It was authenticated and certified by NGC as MS 62 and retains it's full silver color and luster. Perfect for inclusion in a collection of mint errors or World War II coinage.

A Netherlands East Indies 1/4 Gulden has a diameter of 18.9mm which is significantly larger than this mint error on a 1/10 Gulden planchet with a diameter of 15mm.



Extremely Rare Netherlands East Indies Mint Error Struck at the Philadelphia Mint



Extremely Rare Netherlands East Indies Mint Error Struck at the Philadelphia Mint





PCGS CoinFacts

Your Online Reference for U.S. Coins

PCGS CoinFacts includes comprehensive information on nearly 30,000 U.S. coins. It offers everything from basic, startup information for new collectors, to a wealth of detailed information the seasoned collector, buyer or seller can't afford to be without.

From the PCGS CoinFacts Home Page, you can access all denominations and major types of U.S. coins. The link will take you to a Series Page, which offers images of the finest PCGS-graded coin in the series, and a nice explanation including the history and why the coins in the series are important.

The real “business end” of PCGS CoinFacts begins with the individual coin pages, which are loaded with photos and information. To view the essential features of PCGS CoinFacts, you can click on them one at a time, or go straight to a particular feature of interest.

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS - PART SEVEN -

by Mike Byers

Here are some more of my favorite Mint Errors, Patterns & Die Trials that I have handled throughout my 50 year career.

**1803/2 \$5 Gold
15% Mis-Aligned Obverse Die
PCGS XF 45
1 of 2 Known**



<https://mikebyers.com/1803-2-misaligned-obverse-die.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

1944 Walking Liberty Half Dollar
40% Off-Center
ANACS VF 20



<https://mikebyers.com/1944walkeroc.html>

1925-D \$2½
Double Struck in Collar
PCGS AU 58
UNIQUE



https://mikebyers.com/dbl_strk_gold_indian.html

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

1903 Louisiana Purchase \$1 Gold Cardboard 3-Die Trial With Pattern Reverse

NGC
UNIQUE



<https://mikebyers.com/3042853-001.html>

Braided Hair Large Cent Struck 35% Off-Center NGC MS 64 BN



<https://mikebyers.com/1648794-002.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

**1875-CC \$20 Liberty Gold
Partial Collar
NGC MS 62
UNIQUE**



<https://mikebyers.com/1848597-001.html>

**1943-S Cent
Struck 15% Off-Center
on Dime Planchet
NGC AU 55**



<https://mikebyers.com/2062746-001.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

Official Royal Mint Plaster Model For the Great Britain 1983 One Pound
Official Adopted Design by Eric Sewell (Former Chief Engraver of the Royal Mint)
Approved by Queen Elizabeth II
Possibly Unique



<https://mikebyers.com/great-britain-one-pound-plaster.html>

American Bank Note Company
1948 El Salvador Stamp Printing Plate
Complete Set of All Four Denominations
Steel 3.25" x 7.25" Plate No. 7974 UNIQUE



<https://mikebyers.com/american-bank-note-company-el-salvador-stamp-printing-plate.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

1831 Great Britain 1/2 Sovereign Reverse Pattern

Gilt Uniface Reverse

NGC Proof 65 Ultra Cameo

UNIQUE & UNRECORDED



<https://mikebyers.com/2059283-008.html>

“Two-Tailed” Off-Metal 10 Cent Euro

Struck With Two Reverse Dies On Chrome Plated Iron Planchet

NGC MS 65

Extremely Rare



<https://mikebyers.com/4915066-003.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

U.S. State Quarter Obverse Die Cap Brockage & Double Struck NGC MS 67



<https://mikebyers.com/4735370-010.html>

1979-D SBA Dollar Mated Pair Struck Together PCGS



<https://mikebyers.com/24810598-24810599.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

Sacagawea Dollars with an Experimental Finish



<https://mikebyers.com/exprinse.html>

1989-D Lincoln Cent

Struck on a 3.1 gram Copper Planchet

Pre-1983 Cent Planchet

PCGS MS 65 Red TRANSITIONAL - 3 Known



<https://mikebyers.com/10759563.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

1936 Buffalo Nickel Struck on a Nicaragua 1 Cent PCGS AU 55 UNIQUE



<https://mikebyers.com/21260267.html>

1880/9-S Morgan Dollar Struck 10% Off-Center Unique Overdate PCGS MS 63



<https://mikebyers.com/22055918.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

**1944 Washington Quarter
Struck on a Nickel Planchet
NGC MS 62**



<https://mikebyers.com/1743066-001.html>

**1922-S Peace Dollar
Struck 5% Off-Center
PCGS MS 62**



<https://mikebyers.com/5829206.html>

A SELECTION OF MY FAVORITE MINT ERRORS, PATTERNS & DIE TRIALS

Unique Quarter Multi Struck on Copper Core PCGS MS 63



<https://mikebyers.com/25ccoppercore.html>

Mercury Dime Obverse Die Cap PCGS MS 64



<https://mikebyers.com/10759564.html>

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Please submit all content to:

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Mint Error News Price Guide

- Updated February 2026 -

This price guide is brought to you by Mint Error News. It has been compiled by many of the top major mint error dealers.

This price guide is a guide. Prices fluctuate due to the date, grade, eye appeal and how dramatic the striking error is. Rarity is also a factor. The price is sometimes based on the rarity and grade of the type of coin as well as how rare the error is. The price can also vary depending on whether two collectors are bidding for the same rare major mint error. When purchasing a mint error, it is important to use multiple resources to determine value, as there are many mint errors that do not fit into one category.

Proof Errors (Updated February 2026)



Proof coins are struck by technicians who hand feed the blanks into special presses. They are produced, examined, and packaged using extreme quality control. It is very unusual to find major proof errors. A few broadstrikes, off-centers, double strikes in collars and off-metals have been known to be found in sealed proof sets. Proof errors are aggressively sought after by many error collectors.

A very small group of Proof errors recently came from a collection that was auctioned by the State of California. The U.S. Secret Service inspected and released this collection to the State of California determining that it was legal to own. The State of California then auctioned the collection and it has been dispersed since the sale.

Denomination	Broadstrikes	Die Trials	Double/Triple Strikes	Off-Center Strikes	Partial Collar Errors
Proof Lincoln Cent	\$500	\$1,000	\$1,500	\$2,000	\$500
Proof Jefferson Nickel	\$1,000	\$1,000	\$2,500	\$2,000	\$1,000
Proof Clad Dime	\$1,000	\$1,500	\$2,500	\$2,500	\$1,250
Proof Clad Quarter	\$1,000	\$1,500	\$2,500	\$2,500	\$1,250
Proof Clad Half	\$2,500	\$2,000	\$5,000	\$1,500	\$2,000
Proof Ike Dollar	\$15,000	-	\$25,000	-	\$4,000
Presidential Dollar	-	-	-	-	3 Known

Mint Error News Price Guide

Broadstrikes (Updated February 2026)



A broadstruck error occurs when a coin is struck without the collar to form the rim and edge that is part of the shape of the coin. Coins can be broadstruck on either type one or type two planchets. When a coin is broadstruck the blank being fed into the collar will spread and distort outward as it is being struck because the collar isn't in the correct position to retain it.

Denomination	(Small) XF/AU	(Small) Unc	(Large) XF/AU	(Large) Unc
Large Cent	\$150	\$300	\$400	\$1,500
Flying Eagle Cent (1857 – 1858)	\$1,000	\$2,500	\$1,500	\$7,500
Indian Cent	\$50	\$150	\$200	\$350
Lincoln Cent 1930 and Earlier	\$50	\$150	\$100	\$250
Lincoln Cent 1943 Steel	\$40	\$100	\$75	\$200
Proof Lincoln Cent	N/A	\$750	N/A	\$1,000
3 Cent Nickel	\$250	\$1,000	\$400	\$1,500
3 Cent Silver	\$1,000	\$3,500	\$1,500	\$5,000
Shield Nickel	\$400	\$1,250	\$1,000	\$2,500
Liberty Nickel	\$150	\$300	\$200	\$600
Buffalo Nickel	\$100	\$200	\$200	\$500
Jefferson Nickel War Time	\$100	\$200	\$200	\$500
Proof Jefferson Nickel	N/A	\$750	N/A	\$1,000
Seated Half Dime Legend	\$500	\$1,500	\$1,000	\$2,500
Seated Dime Legend	\$500	\$1,500	\$1,000	\$2,500
Barber Dime	\$150	\$250	\$200	\$400
Mercury Dime	\$40	\$150	\$150	\$250
Proof Clad Dime	N/A	\$750	N/A	\$1,000
Barber Quarter	\$600	\$1,250	\$1,000	\$2,500
Standing Liberty Quarter	\$2,000	\$4,000	\$3,000	\$6,000
Washington Quarter Silver	\$75	\$150	\$100	\$250
State Quarter	N/A	\$25	N/A	\$50
Proof Clad Quarter	N/A	\$750	N/A	\$1,000
Barber Half	\$1,000	\$2,000	\$2,000	\$4,000
Walking Liberty Half	\$3,000	\$5,000	\$4,000	\$7,000
Franklin Half	\$1,500	\$3,000	\$2,000	\$4,000
Kennedy Half Silver	\$150	\$250	\$200	\$300
Kennedy Half Clad	\$40	\$60	\$50	\$75
Proof Clad Half	N/A	\$1,000	N/A	\$2,000
Morgan Dollar	\$200	\$500	\$400	\$1,000
Peace Dollar	\$5,000	\$7,500	\$6,000	\$10,000
IKE Dollar	\$100	\$150	\$150	\$200
SBA Dollar	\$50	\$75	\$100	\$200
Sac Dollar	N/A	\$300	N/A	\$1,000
Presidential Dollar	N/A	\$1,500	N/A	\$2,500

Mint Error News Price Guide

Partial Collars (Updated February 2026)



Partial collar strikes occur when there is a malfunction of the striking press. This causes the collar to be in an incorrect position. The lower die (usually the reverse die) is recessed in the collar. This allows the coin which is going to be struck to have a formed rim. After a coin is struck the lower die raises upwards, pushing the struck coin out of the collar and ejecting it. If a blank entering the collar is not properly seated, it will only have partial reeding as it is struck. The edge of this coin will have a partial reeding and a partial blank surface area. Recently, the Mint has installed new machinery where either die can be installed in either position.

Denomination	XF/AU	Unc
Large Cent	\$100	\$200
Flying Eagle Cent (1857 – 1858)	\$500	\$1,500
Indian Cent	\$35	\$100
Lincoln Cent 1930 and Earlier	\$30	\$100
Lincoln Cent 1943 Steel	\$25	\$50
Proof Lincoln Cent	N/A	\$750
3 Cent Nickel	\$150	\$500
3 Cent Silver	\$250	\$750
Shield Nickel	\$200	\$600
Liberty Nickel	\$50	\$150
Buffalo Nickel	\$50	\$75
Jefferson Nickel War Time	\$40	\$60
Proof Jefferson Nickel	N/A	\$1,000
Seated Half Dime Legend	\$750	\$1,500
Seated Dime Legend	\$500	\$1,250
Barber Dime	\$75	\$150
Mercury Dime	\$30	\$100
Proof Clad Dime	N/A	\$1,250
Barber Quarter	\$300	\$750
Standing Liberty Quarter	\$1,250	\$2,000
Washington Quarter Silver	\$40	\$75
State Quarter	N/A	\$15
Proof Clad Quarter	N/A	\$1,500
Barber Half	\$1,000	\$1,500
Walking Liberty Half	\$1,500	\$3,500
Franklin Half	\$500	\$1,000
Kennedy Half Silver	\$50	\$100
Kennedy Half Clad	\$20	\$30
Proof Clad Half	N/A	\$2,000
Morgan Dollar	\$150	\$300
Peace Dollar	\$1,000	\$2,500
IKE Dollar	\$50	\$100
SBA Dollar	\$20	\$30
Sac Dollar	N/A	\$100
Presidential Dollar	N/A	\$400
\$1 Gold Type 1	\$1,000	\$2,000
\$1 Gold Type 2	\$2,000	\$3,000
\$1 Gold Type 3	\$1,000	\$2,000
\$2½ Liberty	\$1,500	\$3,000
\$2½ Indian	\$2,000	\$3,000
\$3	\$5,000	\$10,000
\$5 Liberty	\$4,000	\$5,000
\$5 Indian	\$4,000	\$6,000
\$10 Liberty	\$4,000	\$7,500
\$10 Indian	\$7,500	\$10,000
\$20 Liberty Type 3	\$7,500	\$10,000

Mint Error News Price Guide

Uniface Strikes (Updated February 2026)



Uniface coins occur when there have been two blank planchets in the press at the same time. The other blank will obstruct the die on either the obverse or reverse side, which will prevent it from having that design on the coin. There are many different variations involving uniface errors. In addition to having a 100% blank obverse or reverse, a coin can be struck off-center, with a blank planchet in the collar which will obstruct one side of the off-center. There are also mated pairs which have a combination of multiple errors which can include a side which is uniface. Finally, there are uniface strikes due to a die cap which adhered to the die, forming itself in the shape of a die and striking blank planchets.

Denomination	Uniface Obverse XF	Uniface Obverse Unc	Uniface Reverse XF	Uniface Reverse Unc
Large Cent	\$1,500	\$4,000	\$1,250	\$2,000
Indian Cent	\$750	\$3,000	\$700	\$2,500
Lincoln Cent 1943 Steel	\$250	\$500	\$200	\$400
Lincoln Cent Wheat Ears	\$50	\$100	\$40	\$75
3 Cent Nickel	\$1,500	\$3,000	\$1,250	\$2,500
Shield Nickel	\$1,750	\$4,000	\$1,500	\$3,000
Liberty Nickel	\$2,000	\$3,500	\$1,500	\$3,000
Buffalo Nickel	\$2,250	\$3,000	\$2,000	\$2,500
Jefferson Nickel War Time	\$300	\$750	\$250	\$500
Jefferson Nickel	\$20	\$40	\$20	\$40
Barber Dime	\$2,000	\$3,000	\$1,500	\$2,500
Mercury Dime	\$1,500	\$2,500	\$1,250	\$2,250
Roosevelt Dime Silver	\$100	\$150	\$100	\$150
Roosevelt Dime Clad	\$40	\$75	\$35	\$60
Washington Quarter Silver	\$400	\$750	\$350	\$500
Washington Quarter Clad	\$100	\$125	\$75	\$100
State Quarter	N/A	\$300	N/A	\$500
Kennedy Half Clad	\$750	\$1,000	\$500	\$750
IKE Dollar	\$2,000	\$4,000	N/A	\$3,000
SBA Dollar	\$500	\$1,000	N/A	\$750
Sac Dollar	\$750	\$1,500	N/A	\$1,000

Mint Error News Price Guide

Bonded Coins (Updated February 2026)



Bonded coins occur when the feeder system, which supplies blank planchets to the coin press, malfunctions and jams. When this occurs, a struck coin is not properly ejected and another planchet is fed into the collar and is struck. This struck coin will land on top of the previously unejected strike. These coins will then crush and bond together. This may occur many times as more coins bond.

Denomination	2 Planchets	3-4 Planchets	5-10 Planchets
Lincoln Cent Wheat Ears	\$5,000	\$15,000	—
Lincoln Cent Memorial	\$600	\$2,000	\$5,000 - \$10,000
Jefferson Nickel	\$1,250	\$5,000	\$6,000 - \$10,000
Roosevelt Dime Silver	\$4,000	\$12,500	—
Roosevelt Dime Clad	\$1,500	\$5,000	\$10,000
Washington Quarter Silver	\$7,500	—	—
Washington Quarter Clad	\$3,000	—	—
State Quarter	\$5,000	—	—
Kennedy Half Silver	\$12,500	—	—
Kennedy Half Clad	\$10,000	—	—
IKE Dollar	—	—	—
SBA Dollar	\$10,000	—	—
Sac Dollar	\$10,000	—	—

Mint Error News Price Guide

Struck Fragments

(Updated February 2026)



The blanking press takes the coils of metal strips and punches blanks out of it, ejecting the webbing at the other end. The webbing is cut into small scrap pieces to be melted and recycled. Occasionally a scrap piece will be mixed with the blank planchets and struck by the dies. Struck fragments are rare in the larger denominations. These can be uniface or die struck both sides and are very rare on type coins.

Denomination	Uniface	Die Struck Both Sides
Indian Cent	\$1,000	\$2,000
Lincoln Cent Wheat Ears	\$750	\$2,000
Lincoln Cent Memorial	\$75	\$125
3 Cent Nickel	\$3,000	\$3,500
Jefferson Nickel	\$100	\$200
Roosevelt Dime Silver	\$500	\$1,000
Roosevelt Dime Clad	\$150	\$250
Washington Quarter Silver	\$1,250	\$1,500
Washington Quarter Clad	\$200	\$300
State Quarter	\$750	\$1,000
Kennedy Half Silver	\$1,500	\$2,500
Kennedy Half Clad	\$750	\$1,250
IKE Dollar	\$4,000	\$6,000
SBA Dollar	\$2,000	\$3,000
Sac Dollar	\$2,000	\$4,000

Mint Error News Price Guide

Mated Pairs (Updated February 2026)



Mated pairs involve two individual coins with different errors that were struck together at the same time. Mated pair error combinations can be found in most error types and come in many shapes and sizes. Mated pairs can be overlapped when one of the coins is struck off-center on top of another coin. Another type involves a brockage where a struck coin was perfectly centered on a blank and restruck. Some mated pairs involve a die cap where the cap and brockage coin are discovered together, but this is a scarce find.

The rarest mated pair type involves two die caps (obverse and reverse) where both dies were capped at the same time and both die caps are mated. This last type is extremely rare and there are only a few known examples of mated pairs involving an obverse die cap and reverse die cap. There are several of these mated pairs known on Kennedy Halves including two dated 1976, which is the Bicentennial year. One of the most spectacular mated pairs involve two Barber Dimes, an obverse die cap mated to a reverse die cap and are unique.

Mated pairs can also involve an off-metal where a smaller blank planchet or smaller struck coin was struck on top of a larger coin. This type is extremely rare. The most spectacular pair known is a double struck Franklin Half which was mated to a Lincoln Cent. The Lincoln Cent blank was on top of the obverse of the struck Franklin Half. This pair was then struck together. It is unique.

Denomination	Overlapping	Full Brockage	Die Cap	2 Die Caps
Lincoln Cent Wheat Ears	\$3,500	\$4,500	\$7,500	—
Lincoln Cent Memorial	\$500	\$750	\$750	\$1,250
Liberty Nickel	—	\$20,000	—	—
Jefferson Nickel (pre War Time)	—	—	—	\$10,000
Jefferson Nickel	\$1,000	\$1,250	\$1,500	\$2,500
Barber Dime	—	—	—	\$50,000
Roosevelt Dime Silver	\$3,500	\$4,000	\$4,000	—
Roosevelt Dime Clad	\$1,250	\$1,500	\$2,500	\$3,000
Washington Quarter Silver	\$5,000	—	—	—
Washington Quarter Clad	\$2,000	\$2,500	\$5,000	\$7,500
State Quarter	\$4,000	\$6,000	\$10,000	—
Kennedy Half Silver	\$7,500	\$7,500	\$7,500	\$12,500
Kennedy Half Clad	\$4,000	\$5,000	\$6,000	\$7,500
Kennedy Half Bicentennial	\$6,000	\$7,500	\$7,500	\$10,000
IKE Dollar	\$20,000	—	—	—
SBA Dollar	\$10,000	\$12,500	—	—
Sac Dollar	—	—	—	—

Mint Error News Price Guide

Transitional Errors (Updated February 2026)



A transitional error occurs when a coin is struck on a planchet from a previous year with different metal composition. The most famous transitional is a 1943 copper cent struck on a 1942 copper blank. 1943 cents were struck in steel because of the copper shortage during World War II. Other famous transitionals include 1965 coinage struck in silver instead of clad.

There are also transitionals struck on blanks for the next year. An example is 1964 coinage in clad instead of silver. Most recently, transitionals were discovered involving the SBA and Sacagawea Dollars of 1999 and 2000. There are eight known 1999 SBA Dollars struck on the brass planchet for the 2000 Sacagawea Dollar, and four known 2000 Sacagawea Dollars struck on a clad planchet for the 1999 SBA Dollar.

Denomination	Off-Metal Planchet	Circulated	AU	Unc	Choice Unc – Gem
Lincoln Cent 1943 Transitional	Copper Cent Planchet	\$200,000	\$250,000	\$300,000	\$350,000
Lincoln Cent 1944 Transitional	Steel Cent Planchet	\$30,000	\$50,000	\$100,000	\$150,000
Lincoln Cent 1964 Transitional	Clad Dime Planchet	\$2,000	\$3,000	\$3,500	\$4,000
Lincoln Cent 1965 Transitional	Silver Dime Planchet	\$2,750	\$4,500	\$6,000	\$7,500
Roosevelt Dime 1964 Transitional	Clad Dime Planchet	\$5,000	\$6,500	\$7,500	\$8,500
Roosevelt Dime 1965 Transitional	Silver Dime Planchet	\$5,000	\$6,500	\$7,500	\$8,500
Washington Quarter 1964 Transitional	Clad Quarter Planchet	\$5,000	\$6,500	\$7,500	\$12,500
Washington Quarter 1965 Transitional	Silver Quarter Planchet	\$5,000	\$6,500	\$7,500	\$8,500
Kennedy Half 1964 Transitional	Clad Half Planchet	\$3,500	\$4,500	\$6,000	\$10,000
Kennedy Half 1965 Transitional	Silver Half Planchet	\$5,000	\$6,500	\$7,500	\$10,000
Kennedy Half 1964 Transitional	Clad Quarter Planchet	\$2,000	\$3,000	\$4,000	\$5,000
Kennedy Half 1965 Transitional	Silver Quarter Planchet	\$7,000	\$8,000	\$9,000	\$10,000
Ike Dollar Transitional	40% Silver Planchet	\$2,750	\$3,000	\$3,500	\$5,000
SBA Dollar Transitional	Sacagawea Planchet	N/A	N/A	\$7,500	\$10,000
Sacagawea Dollar Transitional	SBA Planchet	N/A	N/A	\$7,500	\$10,000

Mint Error News Price Guide

U.S. Gold Errors (Updated February 2026)



Major mint errors on U.S. Gold coins are the most prized category of all mint errors. Gold errors are very rare and a few have traded in the \$75,000 to \$100,000 range. Even a broadstruck U.S. Gold coin can easily sell for \$15,000 to \$30,000 compared to a broadstruck Cent, Nickel, Dime or Quarter which all sell for well under \$10. Many serious collectors of Gold Errors have to wait patiently for months and sometimes even years to acquire that one special piece for their collection.

The prices listed here are for common dates in AU-Unc. Better dates and errors that are in gem condition are worth considerably more.

Denomination	Partial Collar	Broadstruck	Clipped Planchet	3% - 5% Off-Center	10% - 15% Off-Center
\$1 Gold Type 1	\$2,000	\$5,000	\$2,000	\$3,000	\$7,500
\$1 Gold Type 2	\$3,000	\$10,000	\$10,000	\$10,000	\$25,000
\$1 Gold Type 3	\$2,000	\$4,000	\$1,500	\$3,000	\$7,500
\$2½ Liberty	\$3,000	\$7,500	\$2,500	\$7,500	\$15,000
\$2½ Indian	\$3,000	\$7,500	\$2,500	\$3,000	\$7,500
\$3 Indian	\$5,000	\$15,000	\$5,000	\$15,000	\$35,000
\$5 Liberty	\$4,000	\$8,500	\$3,000	\$7,500	\$30,000
\$5 Indian	\$5,000	\$10,000	\$3,000	\$15,000	\$30,000
\$10 Liberty	\$4,000	\$20,000	\$3,000	\$15,000	\$30,000
\$10 Indian	\$5,000	\$20,000	\$5,000	\$30,000	\$60,000
\$20 Liberty	\$5,000	\$20,000	\$7,500	\$50,000	\$125,000
\$20 St. Gaudens	—	—	\$5,000	—	—
\$5 American Eagle	\$1,000	\$2,000	\$750	\$2,500	\$3,500
\$10 American Eagle	\$1,250	\$2,500	\$1,000	\$3,000	\$3,500
\$25 American Eagle	\$1,500	\$3,000	\$1,500	\$3,500	\$5,000
\$50 American Eagle	\$2,000	\$5,000	\$2,000	\$5,000	\$10,000

Mint Error News Price Guide

Indents (Updated February 2026)



An indent error occurs when two blanks are fed inadvertently into the same collar, with one blank partly overlaying on top of the other. When the hammer die strikes this combination, the upper blank will be forced into the lower blank, creating a depression which is shaped similar to the upper blank. A scarce type of indent occurs when a blank intended for one denomination lands on top of a blank from a different denomination.

Denomination	10% - 25% XF	30% - 50% XF	10% - 25% Unc	30% - 50% Unc
Large Cent	\$300	\$600	\$750	\$2,000
Indian Cent	\$250	\$500	\$400	\$750
Lincoln Cent 1943 Steel	\$100	\$300	\$175	\$500
Lincoln Cent Wheat Ears	\$30	\$75	\$75	\$125
3 Cent Nickel	\$500	\$1,250	\$1,500	\$3,000
Shield Nickel	\$500	\$1,500	\$2,000	\$3,000
Liberty Nickel	\$400	\$1,000	\$750	\$1,500
Buffalo Nickel	\$300	\$1,000	\$600	\$2,000
Jefferson Nickel War Time	\$200	\$400	\$400	\$750
Jefferson Nickel	\$10	\$25	\$15	\$30
Barber Dime	\$1,000	\$2,000	\$1,500	\$3,000
Mercury Dime	\$300	\$750	\$500	\$1,500
Roosevelt Dime Silver	\$30	\$60	\$50	\$100
Roosevelt Dime Clad	\$10	\$20	\$15	\$30
Washington Quarter Silver	\$100	\$200	\$150	\$300
Washington Quarter Clad	\$25	\$50	\$35	\$100
State Quarter	N/A	N/A	\$200	\$350
Kennedy Half Clad	\$150	\$300	\$200	\$400
IKE Dollar	\$350	\$1,000	\$500	\$2,500
SBA Dollar	\$200	\$400	\$250	\$500
Sac Dollar	\$300	\$500	\$400	\$750

Mint Error News Price Guide

Die Caps (Updated February 2026)



Die caps are caused when a struck coin sticks to the upper hammer die. Once the coin is struck to the die face, the reverse of the struck coin becomes the new die face. When the next blank is fed into the collar and the strike occurs, the reverse design of the adhered struck coin impresses itself into the new blank. This struck coin is a brockage strike. The coin that adhered to the upper die is known as a die cap. This process repeats itself as more coins are struck by the cap. The greater the number of strikes, the higher the cap metal will be pushed around the upper die shaft. Eventually, the cap brakes away from the die in the shape of a thimble.

Denomination	Obverse Cap XF	Obverse Cap Unc	Reverse Cap XF	Reverse Cap Unc
Large Cent	\$25,000	\$50,000	—	—
Indian Cent 1859	\$20,000	\$40,000	—	—
Indian Cent 1860-1864	\$15,000	\$40,000	—	—
Indian Cent 1864-1909	\$15,000	\$30,000	\$2,500	\$7,500
Lincoln Cent 1943 Steel	—	—	—	—
Lincoln Cent Wheat Ears	\$1,000	\$2,500	\$500	\$1,000
Lincoln Cent Memorial	\$150	\$200	\$50	\$100
2 Cent Piece	\$20,000	\$50,000	\$15,000	\$30,000
3 Cent Nickel	—	—	—	—
Shield Nickel	—	—	—	—
Liberty Nickel	\$12,500	\$25,000	—	—
Buffalo Nickel (1 Known)	—	\$30,000	—	—
Jefferson Nickel War Time	\$10,000	—	—	—
Jefferson Nickel	\$200	\$350	\$150	\$250
Barber Dime	\$15,000	\$30,000	\$5,000	\$10,000
Mercury Dime (2 Known)	\$5,000	\$7,500	—	—
Roosevelt Dime Silver	\$750	\$1,250	\$500	\$750
Roosevelt Dime Clad	\$200	\$400	\$200	\$250
Barber Quarter	\$20,000	\$50,000	—	—
Washington Quarter Silver	\$1,500	\$4,000	\$1,500	\$2,000
Washington Quarter Clad	\$350	\$750	\$250	\$350
State Quarter	N/A	\$1,000	N/A	\$600
Kennedy Half Silver	\$3,000	\$5,000	\$2,000	\$3,000
Kennedy Half Clad	\$2,000	\$3,500	\$1,500	\$2,000
Kennedy Half Bicentennial	\$2,500	\$4,000	\$1,750	\$2,500
IKE Dollar	—	\$30,000	—	—
SBA Dollar	N/A	\$15,000	N/A	\$10,000
Sac Dollar	N/A	\$15,000	N/A	\$15,000

Mint Error News Price Guide

Die Adjustment Strikes (Updated February 2026)



Die adjustment strikes are also known as die trials. This error occurs when a coin is struck from the press with very little pressure. When the press is being set up and adjusted, extremely weak strikes occur as the strike pressure reaches its optimum level. These die trials are destroyed after being struck and are rarely found in circulation.

Denomination	XF/AU	Unc
Indian Cent	\$1,000	\$2,000
Lincoln Cent Wheat Ear	\$200	\$300
Lincoln Cent 1943 Steel	\$750	\$1,500
Lincoln Cent Memorial	\$50	\$75
2 Cent	\$5,000	—
Liberty Nickel	\$3,000	\$5,000
Buffalo Nickel	\$4,000	\$7,500
Jefferson Nickel War Time	\$1,250	\$2,000
Jefferson Nickel	\$75	\$100
Proof Jefferson Nickel	N/A	\$1,000
Barber Dime	\$2,500	\$3,500
Mercury Dime	\$1,000	\$1,500
Roosevelt Dime Silver	\$350	\$500
Roosevelt Dime Clad	\$100	\$125
Seated Quarter	\$4,000	\$7,500
Standing Liberty Quarter	\$7,500	\$15,000
Washington Quarter Silver	\$500	\$750
Washington Quarter Clad (Pre-State)	\$125	\$150
State Quarter	N/A	\$200
Walking Liberty Half	\$2,500	\$5,000
Kennedy Half Silver	\$500	\$750
Kennedy Half Clad	\$200	\$250
Proof Kennedy Half 40% Silver	N/A	\$1,500
Proof Kennedy Half Clad	N/A	\$1,000
Morgan Dollar	\$1,500	\$2,500
Peace Dollar	\$7,000	\$10,000
IKE Dollar	\$300	\$400
IKE Dollar Bicentennial	\$350	\$500
SBA Dollar	N/A	\$500
Sac Dollar	N/A	\$1,000

Mint Error News Price Guide

Double Denominations (Updated February 2026)



One of the most expensive, popular, and desired types of errors are the double denominations. This error happens when a coin is struck on a previously struck coin of a smaller denomination. Examples are a cent on a struck dime, and a nickel on a struck cent. The most dramatic are those with considerable design visible from the original strike. There are a few known double denominations with different dates.

Denomination	Struck On	Circulated	AU	Unc
Lincoln Cent Wheat Ears	Mercury Dime	\$6,000	\$12,500	\$20,000
Lincoln Cent Wheat Ears	Roosevelt Dime	\$4,000	\$5,000	\$6,000
Lincoln Cent Wheat Ears	Foreign Coin	\$2,000	\$2,500	—
Lincoln Cent Memorial	Roosevelt Dime Silver	\$3,000	\$4,500	\$6,000
Lincoln Cent Memorial	Roosevelt Dime Clad	N/A	N/A	\$750
Lincoln Cent Memorial	Foreign Coin	N/A	\$600	\$750
Jefferson Nickel	Lincoln Cent Wheat Ears	\$1,500	\$2,000	\$2,500
Jefferson Nickel	Lincoln Cent Memorial	N/A	\$750	\$1,000
Jefferson Nickel	Foreign Coin	\$1,000	\$1,250	\$1,500
Jefferson Nickel	Roosevelt Dime	\$1,000	\$1,250	\$1,500
Roosevelt Dime Silver	Foreign Coin	\$4,000	\$5,000	\$7,500
Roosevelt Dime Clad	Foreign Coin	\$3,000	\$4,000	\$5,000
Washington Quarter Silver	Lincoln Cent Wheat Ears	\$3,000	\$4,000	\$6,000
Washington Quarter Silver	Lincoln Cent Memorial	\$2,500	\$3,000	\$3,500
Washington Quarter Silver	Foreign Coin	\$2,500	\$3,000	\$3,500
Washington Quarter Silver	Jefferson Nickel	\$3,000	\$4,000	\$6,000
Washington Quarter Silver	Roosevelt Dime Silver	\$2,500	\$3,000	\$3,500
Washington Quarter Clad	Lincoln Cent Memorial	\$2,500	\$3,000	\$3,500
Washington Quarter Clad	Foreign Coin	\$2,000	\$2,500	\$3,000
Washington Quarter Clad	Jefferson Nickel	\$2,500	\$3,000	\$3,500
Washington Quarter Clad	Roosevelt Dime Clad	\$2,000	\$2,500	\$3,000
State Quarter	Jefferson Nickel	N/A	\$2,000	\$3,000
State Quarter (Extremely Rare)	Any Other Denomination	N/A	\$10,000	\$12,500
Franklin Half	Lincoln Cent Wheat Ears	\$7,500	\$12,500	\$25,000
Kennedy Half (Extremely Rare)	Any Denomination	\$7,500	\$10,000	\$12,500
IKE Dollar (Extremely Rare)	Any Denomination	\$15,000	\$20,000	\$25,000
Sac Dollar	Maryland State Quarter	N/A	\$3,000	\$4,000

Mint Error News Price Guide

Brockages (Updated February 2026)



A brockage error can only occur when there are two coins involved. One of the coins involved will always be a struck coin which has not ejected properly. That struck coin will find its way back between the dies and will be struck next to a blank planchet which was fed into the collar. The image of that first struck coin will be impressed into that side of the blank planchet. The result will be a second coin which has images of the first coin impressed into it. Those images will be pressed into the coin and the image will be in reverse. This incuse sunken image is known as a brockage.

Denomination	50% Brockage XF	100% Brockage XF	50% Brockage Unc	100% Brockage Unc
Large Cent	\$600	\$1,000	\$3,000	\$10,000
Indian Cent	\$500	\$1,250	\$1,500	\$4,000
Lincoln Cent 1943 Steel	\$350	\$500	\$650	\$1,000
Lincoln Cent Wheat Ears	\$125	\$200	\$200	\$350
3 Cent Nickel	\$1,250	\$2,000	\$3,500	\$5,000
3 Cent Silver	\$2,000	\$3,000	\$3,000	\$6,000
Shield Nickel	\$1,500	\$2,500	\$3,500	\$5,000
Liberty Nickel	\$1,250	\$2,250	\$2,000	\$4,000
Buffalo Nickel	\$2,000	\$2,500	\$4,000	\$7,500
Jefferson Nickel War Time	\$250	\$750	\$750	\$1,500
Jefferson Nickel	\$50	\$75	\$50	\$150
Barber Dime	\$1,500	\$3,500	\$5,000	\$12,500
Mercury Dime	\$750	\$3,000	\$1,500	\$4,000
Roosevelt Dime Silver	\$100	\$200	\$150	\$250
Roosevelt Dime Clad	\$50	\$100	\$75	\$150
Washington Quarter Silver	\$200	\$500	\$500	\$1,000
Washington Quarter Clad	\$75	\$150	\$150	\$250
State Quarter	N/A	N/A	\$750	\$1,500
Kennedy Half Clad	N/A	N/A	\$650	\$1,500
IKE Dollar	\$1,500	\$4,000	\$3,000	\$10,000
SBA Dollar	N/A	N/A	\$500	\$2,500
Sac Dollar	N/A	N/A	\$1,500	\$5,000

Mint Error News Price Guide

Double & Multiple Strikes (Updated February 2026)



When a blank planchet is struck by the dies, the normal procedure is for the feeders to eject the struck coin out of the collar and into a chute. If there is a malfunction and the struck coin isn't ejected, it may receive a second or third strike by the dies. A multiple struck coin can happen in many ways and have many combinations of errors.

(Since each double and multiple strike can vary from being 10% off-center to 90% off-center, the prices listed below can be substantially more based on the percent off-center and dramatic overall look.)

Denomination	XF/AU	Unc
Large Cent	\$1,000	\$7,500
Indian Cent	\$600	\$1,000
Lincoln Cent 1930 and Earlier	\$850	\$1,500
Lincoln Cent 1943 Steel	\$400	\$1,500
Proof Lincoln Cent	N/A	\$2,000
3 Cent Nickel	\$2,000	\$3,500
Liberty Nickel	\$4,000	\$10,000
Buffalo Nickel	\$5,000	\$10,000
Jefferson Nickel War Time	\$750	\$2,000
Proof Jefferson Nickel	N/A	\$2,000
Barber Dime	\$4,000	\$10,000
Mercury Dime	\$3,500	\$8,500
Proof Clad Dime	N/A	\$2,000
Standing Liberty Quarter	\$15,000	\$50,000
Washington Quarter Silver	\$200	\$350
State Quarter	N/A	\$350 – \$750
Proof Clad Quarter	N/A	\$2,000
Walking Liberty Half	\$10,000	\$25,000
Franklin Half	\$6,500	\$10,000
Kennedy Half Silver	\$1,500	\$2,500
Kennedy Half Clad	N/A	\$750
Proof Kennedy Half Clad	N/A	\$5,000
Morgan Dollar	\$10,000	\$25,000
Peace Dollar	\$15,000	\$40,000
IKE Dollar	\$2,000	\$4,000 - \$7,500
SBA Dollar	\$1,000	\$2,500 – \$4,000
Sac Dollar	\$750	\$1,250 – \$2,500

Mint Error News Price Guide

Off-Center Strikes (Updated February 2026)



Off-center coins are one of the most common and best known types of errors. This happens when a blank which is supposed to be fed into the press, lands in the collar improperly. When this occurs only part of the blank is between the upper and lower dies. When the dies strike the blank, only that part will be struck with a design.

Denomination	10% - 15% XF/AU	25% - 60% XF/AU	10% - 15% Unc	25% - 60% Unc
Large Cent	\$400	\$2,500	\$1,000	\$10,000
Flying Eagle Cent (1857 – 1858)	\$2,500	\$10,000	\$5,000	\$20,000
Indian Cent	\$100	\$400	\$200	\$600
Lincoln Cent 1930 and Earlier	\$75	\$300	\$150	\$750
Lincoln Cent 1943 Steel	\$40	\$250	\$100	\$500
Proof Lincoln Cent	N/A	N/A	\$1,000	\$2,000
3 Cent Nickel	\$300	\$1,500	\$600	\$3,500
3 Cent Silver	\$1,000	\$5,000	\$2,000	\$7,500
Shield Nickel	\$750	\$2,500	\$1,000	\$7,500
Liberty Nickel	\$250	\$1,000	\$500	\$2,500
Buffalo Nickel	\$250	\$750	\$400	\$1,500
Jefferson Nickel War Time	\$100	\$500	\$200	\$1,000
Proof Jefferson Nickel	N/A	N/A	\$1,000	\$2,000
Seated Half Dime Legend	\$3,000	\$7,500	\$5,000	\$15,000
Seated Dime Legend	\$2,000	\$7,000	\$3,500	\$10,000
Barber Dime	\$300	\$1,500	\$500	\$2,500
Mercury Dime	\$100	\$750	\$150	\$1,250
Proof Clad Dime	N/A	N/A	\$1,000	\$2,000
Barber Quarter	\$1,500	\$5,000	\$2,500	\$10,000
Standing Liberty Quarter	\$5,000	\$20,000	\$20,000	\$40,000
Washington Quarter Silver	\$50	\$100	\$75	\$150
State Quarter	N/A	N/A	\$75	\$300
Proof Clad Quarter	N/A	N/A	\$1,500	\$2,000
Barber Half	\$4,000	\$10,000	\$6,000	\$20,000
Walking Liberty Half	\$4,000	\$12,500	\$7,500	\$20,000
Franklin Half	\$2,500	\$4,000	\$3,500	\$7,500
Kennedy Half Silver	\$100	\$500	\$250	\$1,000
Kennedy Half Clad	\$60	\$250	\$100	\$400
Proof Clad Half	N/A	N/A	\$1,500	\$3,000
Morgan Dollar	\$3,000	\$15,000	\$10,000	\$50,000
Peace Dollar	\$20,000	\$35,000	\$50,000	\$100,000
IKE Dollar	\$125	\$1,250	\$150	\$2,000
SBA Dollar	N/A	N/A	\$100	\$500
Sac Dollar	N/A	N/A	\$1,000	\$3,500
Presidential Dollar	—	—	\$1,500	\$5,000

Mint Error News Price Guide

Off-Metals (Updated February 2026)



Off-metal and wrong planchet errors occur when a correctly made blank from one denomination is accidentally fed into a press for another denomination. Examples are a nickel struck on a cent planchet and a cent struck on a dime planchet. The coin struck on an incorrect blank will weigh exactly what the denomination of that blank would have been. An even more dramatic wrong planchet error is a coin struck on a previously struck coin of a different metal.

Denomination	Off-Metal Planchet	Circulated	AU	Unc	Choice Unc – Gem
Indian Cent	Foreign Planchet	\$1,000	\$1,500	\$5,000	\$7,500
Indian Cent	Dime Planchet	\$10,000	\$15,000	\$20,000	\$25,000
Lincoln Cent Before 1919	Dime Planchet	\$4,000	\$6,500	\$10,000	–
Lincoln Cent Before 1919	Foreign Planchet	\$750	\$2,000	\$4,000	–
Lincoln Cent 1919 – 1940	Dime Planchet	\$2,000	\$2,500	\$4,000	\$6,000
Lincoln Cent 1919 – 1940	Foreign Planchet	\$500	\$1,000	\$1,500	\$2,500
Lincoln Cent 1943 Steel	Dime Planchet	\$1,500	\$2,500	\$3,500	\$7,500
Lincoln Cent 1943 Transitional	Copper Cent Planchet	\$200,000	\$250,000	\$300,000	\$350,000
Lincoln Cent 1944 Transitional	Steel Cent Planchet	\$30,000	\$50,000	\$100,000	\$150,000
Lincoln Cent Wheat Ears (1941-1964)	Dime Planchet	\$500	\$600	\$1,000	\$2,000
Lincoln Cent 1965 and Later	Dime Planchet	\$125	\$150	\$200	\$350
Lincoln Cent 1964 Transitional	Clad Dime Planchet	\$2,000	\$3,000	\$3,500	\$4,000
Lincoln Cent 1965 Transitional	Silver Dime Planchet	\$2,750	\$4,500	\$6,000	\$7,500
Shield Nickel	Foreign Planchet	\$7,500	\$12,500	–	–
Shield Nickel	Cent Planchet	\$15,000	\$25,000	\$40,000	\$60,000
Liberty Nickel	Foreign Planchet	\$400	\$750	\$1,250	\$2,000
Liberty Nickel	Cent Planchet	\$2,000	\$3,000	\$6,000	\$7,500
Buffalo Nickel	Foreign Planchet	\$2,500	\$7,500	\$12,500	–
Buffalo Nickel	Cent Planchet	\$2,000	\$4,000	\$6,000	\$8,000
Jefferson Nickel Before 1950	Cent Planchet	\$250	\$500	\$750	\$1,000
Jefferson Nickel 1950 and Later	Cent Planchet	\$125	\$150	\$200	\$250
Jefferson Nickel 1943	Steel Cent Planchet	\$1,000	\$2,000	\$3,000	\$5,000
Jefferson Nickel 1964 and Earlier	Silver Dime Planchet	\$200	\$300	\$350	\$400
Jefferson Nickel 1965 and Later	Clad Dime Planchet	\$150	\$200	\$225	\$250
Roosevelt Dime Silver	Foreign Planchet	\$2,000	\$2,500	\$3,000	\$3,500
Roosevelt Dime Clad	Foreign Planchet	\$1,500	\$2,000	\$2,250	\$2,500
Roosevelt Dime 1964 Transitional	Clad Dime Planchet	\$5,000	\$6,500	\$10,000	\$12,500
Roosevelt Dime 1965 Transitional	Silver Dime Planchet	\$5,000	\$6,500	\$7,500	\$8,500
Washington Quarter Silver	Cent Planchet	\$300	\$400	\$500	\$750
Washington Quarter Silver	Nickel Planchet	\$300	\$400	\$500	\$600
Washington Quarter Clad	Cent Planchet	\$250	\$300	\$400	\$500

Mint Error News Price Guide

Off-Metals (Updated February 2026)

Denomination	Off-Metal Planchet	Circulated	AU	Unc	Choice Unc – Gem
Washington Quarter Clad	Nickel Planchet	\$100	\$150	\$200	\$250
Washington Quarter	Silver Dime Planchet	\$300	\$400	\$500	\$650
Washington Quarter	Clad Dime Planchet	\$250	\$300	\$350	\$400
Washington Quarter 1964 Transitional	Clad Quarter Planchet	\$5,000	\$6,500	\$7,500	\$12,500
Washington Quarter 1965 Transitional	Silver Quarter Planchet	\$5,000	\$6,500	\$7,500	\$8,500
State Quarter	Cent Planchet	N/A	\$6,500	\$7,500	\$8,000
Delaware State Quarter	Nickel Planchet	N/A	\$500	\$650	\$750
All Other State Quarters	Nickel Planchet	N/A	\$1,000	\$1,250	\$1,500
State Quarter	Dime Planchet	N/A	\$5,000	\$5,500	\$6,000
Walking Half	Dime Planchet	N/A	N/A	N/A	\$50,000
Walking Half	Quarter Planchet	\$17,500	\$22,500	\$40,000	\$35,000
Walking Half	Foreign Planchet	\$10,000	\$15,000	\$30,000	\$25,000
Franklin Half	Cent Planchet	\$3,000	\$4,000	\$5,000	\$6,000
Franklin Half	Nickel Planchet	\$3,000	\$4,000	\$5,000	\$6,000
Franklin Half	Dime Planchet	\$3,500	\$4,500	\$5,500	\$6,500
Franklin Half	Quarter Planchet	\$600	\$750	\$1,000	\$1,250
Kennedy Half Silver 1964	Cent Planchet	\$1,000	\$1,250	\$1,500	\$2,000
Kennedy Half Silver 1964	Nickel Planchet	\$1,000	\$1,250	\$1,500	\$2,000
Kennedy Half Silver 1964	Dime Planchet	\$1,000	\$1,250	\$2,000	\$2,500
Kennedy Half Silver 1964	Quarter Planchet	\$400	\$500	\$600	\$750
Kennedy Half Clad	Cent Planchet	\$750	\$850	\$1,000	\$1,500
Kennedy Half Clad	Nickel Planchet	\$750	\$850	\$1,000	\$1,250
Kennedy Half Clad	Dime Planchet	\$750	\$850	\$1,000	\$1,400
Kennedy Half Clad	Quarter Planchet	\$350	\$400	\$450	\$500
Kennedy Half 1964 Transitional	Clad Half Planchet	\$3,500	\$4,500	\$6,000	\$10,000
Kennedy Half 1965 Transitional	Silver Half Planchet	\$5,000	\$6,500	\$7,500	\$10,000
Kennedy Half 1964 Transitional	Clad Quarter Planchet	\$2,000	\$3,000	\$4,000	\$5,000
Kennedy Half 1965 Transitional	Silver Quarter Planchet	\$7,000	\$8,000	\$9,000	\$10,000
Ike Dollar	Cent Planchet	\$7,500	\$10,000	\$12,500	\$15,000
Ike Dollar	Nickel Planchet	\$10,000	\$12,500	\$15,000	\$20,000
Ike Dollar	Dime Planchet	\$7,500	\$8,500	\$10,000	\$12,500
Ike Dollar	Quarter Planchet	\$7,000	\$10,000	\$12,500	\$15,000
Ike Dollar	Half Planchet	\$1,600	\$1,750	\$2,000	\$3,000
Ike Dollar	Foreign Planchet	\$900	\$1,000	\$1,250	\$1,500
Ike Dollar Transitional	40% Silver Planchet	\$2,750	\$3,000	\$3,500	\$5,000
SBA Dollar	Cent Planchet	N/A	\$1,750	\$3,000	\$5,000
SBA Dollar	Nickel Planchet	N/A	\$6,000	\$7,000	\$8,000
SBA Dollar	Dime Planchet	N/A	\$6,000	\$7,000	\$10,000
SBA Dollar	Quarter Planchet	N/A	\$600	\$850	\$1,000
Sac Dollar	Cent Planchet	N/A	\$12,500	\$15,000	\$20,000
Sac Dollar	Nickel Planchet	N/A	\$12,500	\$15,000	\$20,000
Sac Dollar	Dime Planchet	N/A	\$8,000	\$15,000	\$20,000
Sac Dollar	Quarter Planchet	N/A	\$1,500	\$2,000	\$2,500

Mint Error News Price Guide

Counterbrockages

(Updated February 2026)



A counterbrockage error involves a cap die and a previously struck coin. When a cap die strikes a previously struck coin, the obverse design from that struck coin will be impressed into the cap. The result will be a design where the cap face will be an incuse brockage. When a new blank is struck by this cap die with an incuse brockage image, the obverse will have a raised and spread image from that incuse design of the cap. This brockage impression is known as a counterbrockage.

Denomination	Circulated	AU	Unc	Choice Unc - Gem
Indian Cent	\$750	\$1,000	\$1,500	\$2,000
Lincoln Cent 1943 Steel	\$500	\$750	\$1,500	\$2,000
Lincoln Cent Wheat Ears	\$200	\$200	\$300	\$500
Lincoln Cent Memorial	\$40	\$50	\$75	\$100
Shield Nickel	\$1,500	\$2,000	\$4,000	\$5,000
Liberty Nickel	\$1,500	\$2,000	\$4,000	\$5,000
Jefferson Nickel	\$50	\$100	\$150	\$200
Barber Dime	\$3,000	\$5,000	\$7,500	\$10,000
Roosevelt Dime Silver	\$300	\$500	\$750	\$1,000
Roosevelt Dime Clad	\$100	\$150	\$250	\$300
Washington Quarter Silver	\$500	\$1,000	\$1,500	\$2,000
Washington Quarter Clad	\$100	\$200	\$300	\$400
State Quarter	N/A	\$750	\$1,250	\$1,500
Kennedy Half Silver	\$1,250	\$2,000	\$3,000	\$4,000
Kennedy Half Clad	\$500	\$750	\$1,250	\$1,500
SBA Dollar	N/A	\$2,000	\$3,000	\$4,000

Mint Error News Price Guide

Fold-Over Strikes (Updated February 2026)



A fold-over coin is one of the most dramatic types of errors. It occurs when the blank is standing vertically between the dies. During the strike, the force is so great that it bends and folds the blank. These fold-overs can be on-center or off-center, and come in many different shapes. There are a few fold-overs with multiple errors, either with an additional strike or fold-over. Denominations above quarters are very scarce.

Denomination	AU	AU Dated	Unc	Unc Dated
Indian Cent Memorial Copper	\$1,000	\$1,250	\$1,250	\$1,500
Lincoln Cent Memorial Zinc	\$750	\$1,000	\$1,000	\$1,250
Jefferson Nickel	\$2,500	\$3,000	\$3,000	\$4,000
Roosevelt Dime Silver	\$4,000	\$5,000	\$5,000	\$6,000
Roosevelt Dime Clad	\$3,000	\$3,500	\$3,500	\$4,500
Washington Quarter Silver	\$4,000	\$5,000	\$5,000	\$10,000
Washington Quarter Clad	\$3,500	\$4,000	\$4,000	\$5,000
State Quarter	\$5,000	\$6,000	\$6,000	\$8,500

Mint Error News Price Guide

Martha Washington Test Pieces (Updated February 2026)



There is one set of a Dime, Quarter and Half struck by Martha Washington dies that are permanently housed in the Smithsonian Institute, embedded in blocks of lucite. According to United States Pattern and Related Issues, by Andrew W. Pollock III, "the only trial pieces purported to have survived metallurgical testing in 1965 were the Dime, Quarter Dollar, and Half Dollar equivalent strikes in copper-nickel clad over copper."

Mike Byers' discovery of the Martha Washington Test Piece on a copper-zinc Cent planchet struck 10% off-center with a uniface reverse was a front page Coin World article on August 7th, 2000.

Denomination	Unc	Choice	Gem
Martha Cent	\$1,000	\$1,500	\$2,000
Martha Nickel	\$4,500	\$6,000	\$7,500
Martha Dime	\$7,500	\$10,000	\$12,500
Martha Quarter	\$1,000	\$1,500	\$3,000
Martha Half Dollar	\$5,000	\$7,500	\$10,000
Martha Dollar (SBA Planchet)	\$5,000	\$7,500	\$10,000
Martha Dollar (Sac Planchet)	\$1,000	\$1,500	\$2,000

MINT*ERROR*NEWS MAGAZINE

Issues of Mint Error News Magazine are available for you to read online at:

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Mike Byers is the Publisher & Editor of Mint Error News Magazine

Private Mint News

Private mints and their issues have a long and illustrious history, but it is often hard to assemble, often years later without good documentation. When working with sovereign mints like the United States Mint, there is often a lot of archives and records available to research which is not available for private mints.

To address this, Private Mint News is a new online publication focusing on numismatics from by private mints. Private mint issues or creations, often in the form of tokens and medals called exnumia, is a rich and evolving area, however, research information can be thin on both classic and recent issues, especially the latter. The goal of Private Mint News is to assist in rectifying this situation by documenting and discussing issues from Private Mints of all eras.

Coverage includes private mints issuers of all eras and locations with an initial focus on the United States. Modern issuer coverage will include Daniel Carr of Moonlight Mint, Ron Lands of Gallery Mint Museum, Jared Grove of Grove Minting, Provident Metals, and other issuers. Classic issuers will include issuers of tokens, medals and coins including Civil War Tokens, So-Called Dollars, Territorial and Pioneer coins as well as Private Patterns.

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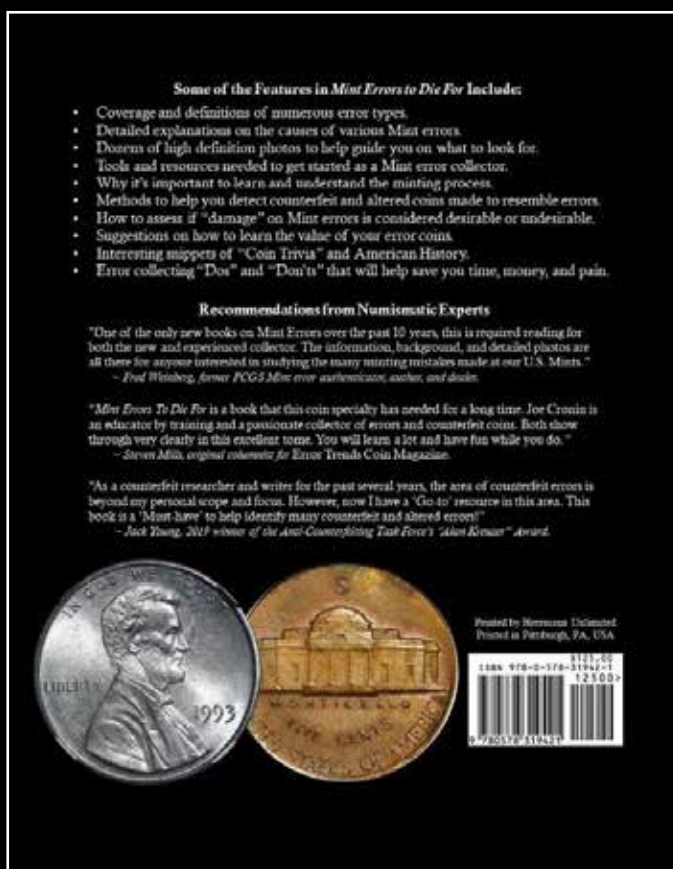
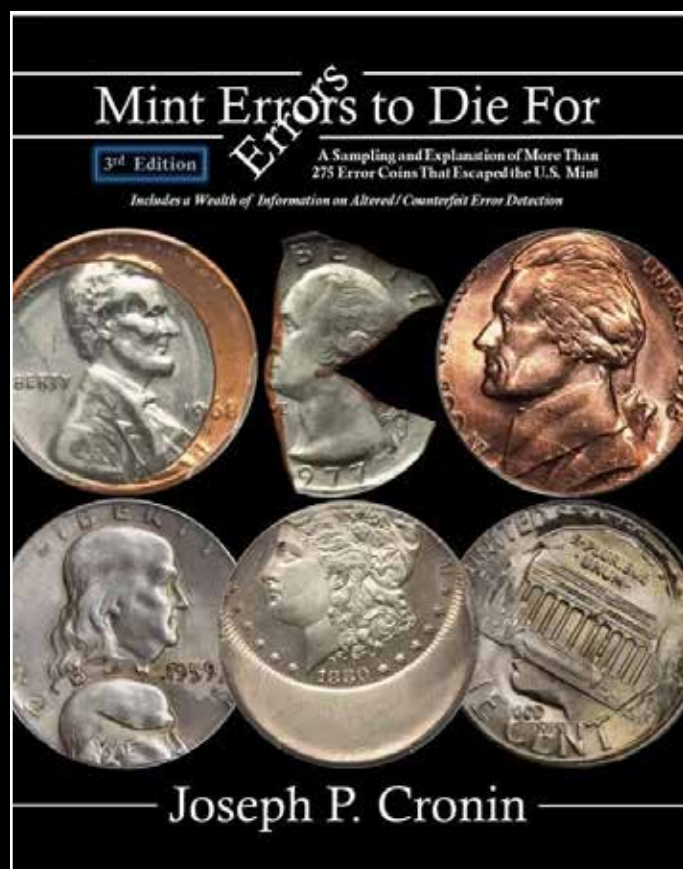
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A Sampling and Explanation of More Than
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Non-gold Coins Struck on Gold Planchets



1913 photos PCGS® used by permission at PCGS.com/
CoinFacts; NGC label photo courtesy of MikeByers.com



Coin Trivia: Though the 1913 Buffalo nickel is on a \$5 gold Half Eagle planchet, Mint errors on \$2.5 gold planchets include: Indian Head Cents: (3) 1900, 1905, 1906, and 1907. Lincoln Cents: 1911, 1915, and 1927

1913 (Type 2) Buffalo Nickel:

Struck on a \$5 Gold Half Eagle Planchet

Though there are nine known cents (six Indian Heads and three Lincolns) struck on gold Quarter Eagle (\$2.5) planchets, this is the only known Buffalo nickel struck on a gold planchet of any type; in this case, it's likely a \$5 gold Half Eagle planchet. (Some speculate it was made intentionally as were the five known 1913 Liberty nickels). Sadly someone cut into the rim on the reverse at 8 o'clock (see photo below) likely to prove it's just another plated novelty coin. Now even if you're 99.9% sure your suspect coin is a fake, don't ever, ever do that! As a result, PCGS gave it a "Genuine/AU Details" grade. It's no surprise that the psychological impact of PCGS' grade adversely affected its initial selling price: \$78,000 at Heritage Auctions in January of 2021 – a heck of a lot less than what many experts expected despite the damage.

In an interesting twist, Las Vegas rare coin dealer Mike Byers reacquired the coin and advocated it shouldn't have been given a "Genuine" label as there are a few other high-profile straight-graded coins/patterns with post-Mint alterations. NGC agreed and straight-graded it at AU-53; he later sold the coin privately for \$400,000! (Source: MikeByers.com/6324417-001.html)



What the Planchet Was Intended to Become

Below is a 1913 Indian Head \$5 gold Half Eagle, which is likely what the planchet for the featured 1913 Buffalo nickel was supposed to become. Seeing that U.S. Mint control of gold and silver planchets was so tight even back then, it is unknown if this is a true error or a Mint-assisted coin. (Photos courtesy of PCGS®
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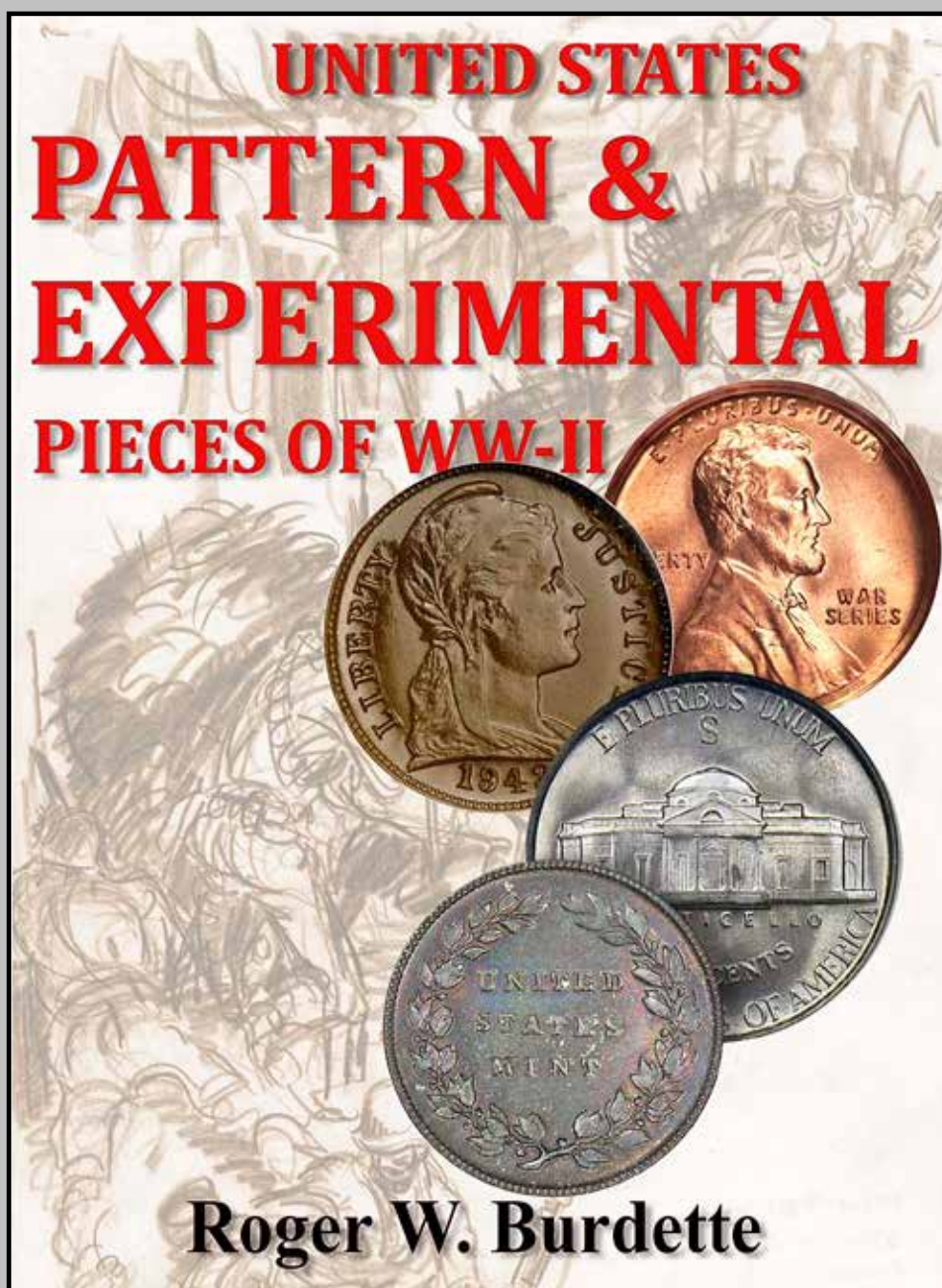
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Author Morland Fischer's comprehensive collection reflects the attraction and advantages of exploring foreign printing errors. An overview of collecting paper money errors in today's numismatic market offers insights on the great disparity between domestic and world notes. Market values are discussed, acknowledging what variables make an error note precious in the trade. Incorporating these concepts and more, Fischer expands the method of collecting currency errors by introducing a Foreign Error Note (FEN) scale to gauge price levels based on error type.

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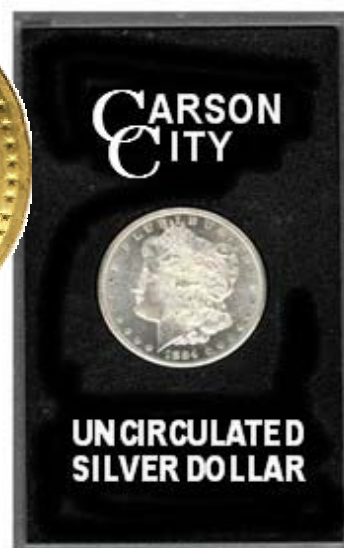


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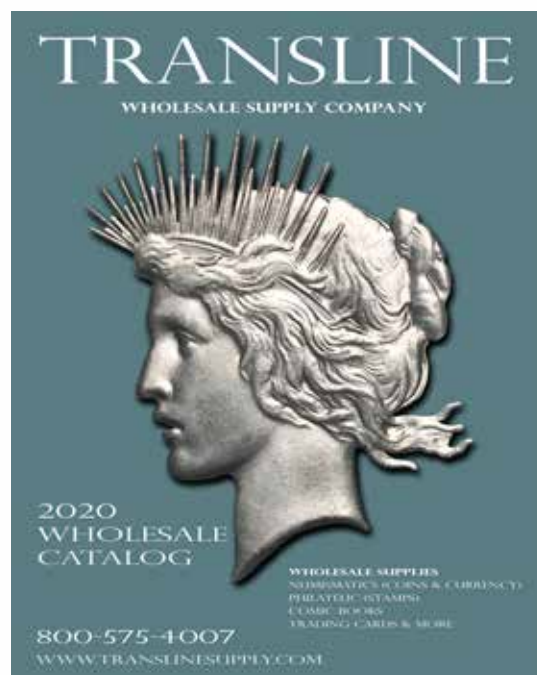
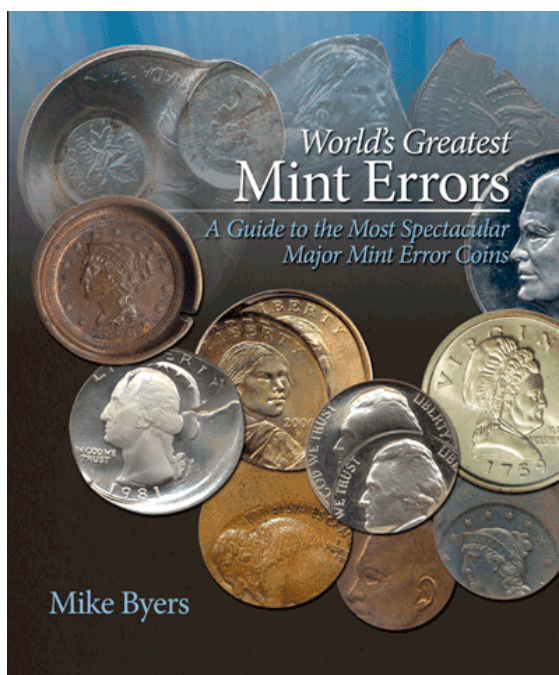


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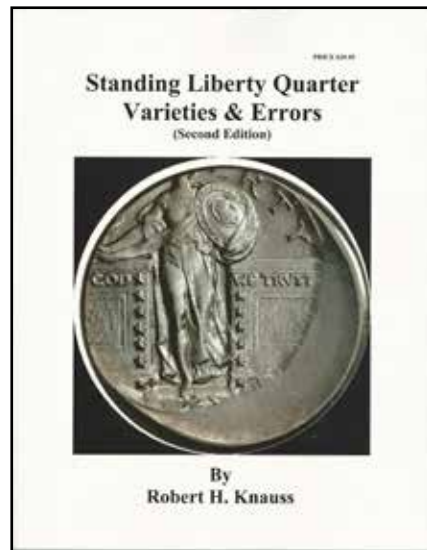
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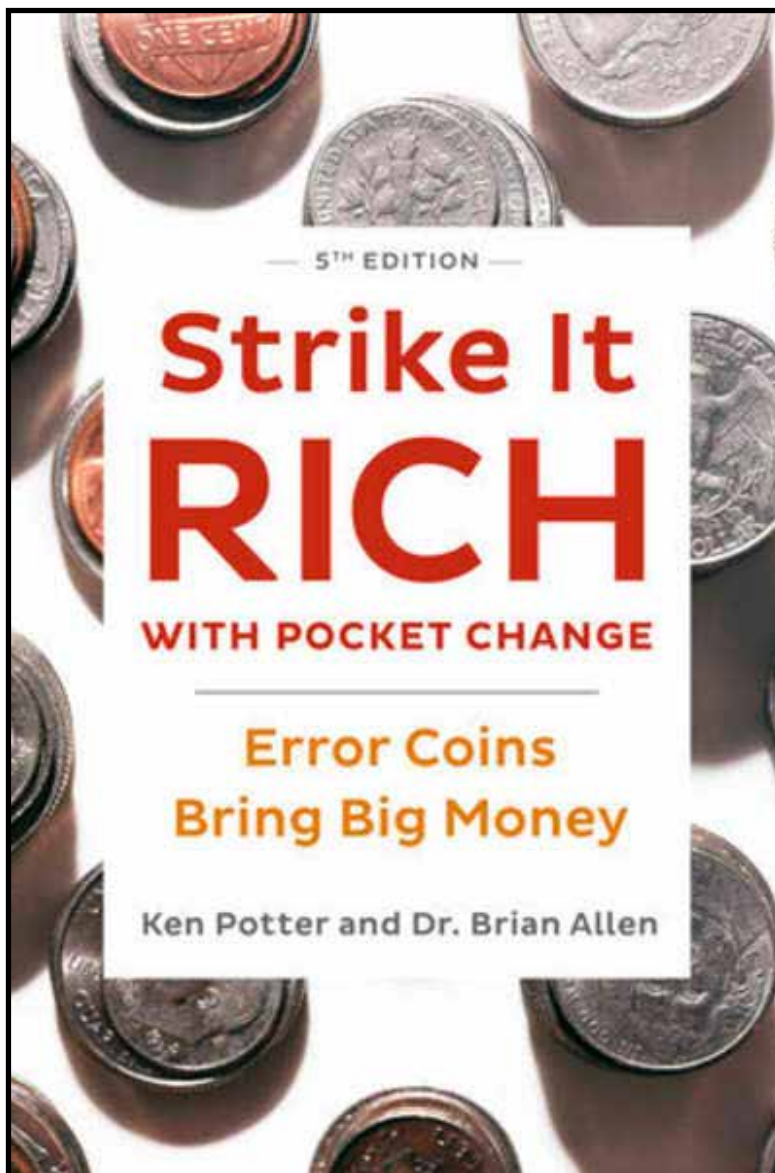
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by Brian Allen & Ken Potter
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MINT*ERROR*NEWS GLOSSARY



1943 Lincoln Cent Struck on a Surinam 25 Cent Planchet

What Are Off-Metal Errors?

Off-metal errors occur when a correctly made blank from one denomination is accidentally fed into a press for another denomination. Examples are a nickel struck on a cent planchet and a cent struck on a dime planchet. The coin struck on an incorrect blank will weigh exactly what the denomination of that blank would have been. An even more dramatic wrong planchet error is a coin struck on a previously struck coin of a different metal.

2026 Coin Shows



Visit Mike Byers at the following shows:

February 17 - 20, 2026	Long Beach Expo Long Beach, California
February 26 - 28, 2026	ANA National Money Show Savannah, Georgia
March 31 - April 2	PCGS Trade & Grade Hilton Phoenix Resort at the Peak Phoenix, Arizona
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Mike Byers was born in the coin business attending coin shows since he was six years old. When he was seventeen, he issued his first coin catalog. He has been a Market-Maker in U.S. Gold Coins and a dealer in major mint errors. In 1987 he offered limited partnerships and rare coin funds. He has written articles for The Coin Dealer Newsletter and has been featured on the front page of Coin World numerous times with his numismatic rarities. Mike Byers is a contributing author on mint errors for CoinWeek. He also assisted with the mint error section of Coin Facts on the PCGS website. You can visit Mike Byers and view his rarities at the ANA, Central States, FUN show and the Long Beach Coin Expo.

Mike Byers has been a professional numismatist for forty years. He is one of the largest dealers handling U.S. Gold Coins, Patterns and Rarities certified by PCGS and NGC. He has handled major coin collections and attends every major coin convention. Mike Byers carries an extensive inventory as well as solicits want lists and is always looking to purchase fresh inventory and collections.

Mike Byers was a consultant to ANACS for Mint Errors from 2000 to 2006. He is also the Publisher and Editor of Mint Error News Magazine and the Mint Error News Website that was founded in 2003. In 2009, Mike Byers published his first book, *World's Greatest Mint Errors*, which received the NLG Award for Best World Coin Book and is available on Amazon.com.

Mike Byers is a life member of ANA since 1985, a charter member of NGC and a featured dealer/member of PCGS. He is also a life member of the Central States Numismatic Society and the Florida United Numismatists. He is a member of CDN Exchange (BYRS).



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