Revenue Perfins Documented on US Postage Stamps

By Chuck Spaulding (#2355)

The planned catalog of Rev-Perfs will have a special section on the postal perfin types found in revenue stamps. Many of you may not have noticed that the revised U.S. Perfins Catalog now includes revenue information. The figure below shows an R placed after the usage date on the left page. This R indicates that the perfin design has been found in a revenue stamp (see below).

As part of our research we have been confirming the postal designs that have been found in revenues. We have been discovering new designs that are not currently listed in the catalog. To date, there are 635 U.S. perfins found in both postage and revenue stamps. For this report I've prepared a listing of them. The list keeps growing. It seems that every day someone finds a new one. Club members can help us to confirm designs and to add new ones. The Rev-Perfs could have been easily overlooked because many of them may be hidden among the very common E and F rated postal perfin designs. However, if the user was not a stockbroker or a company that didn't use stock transfer stamps, there is a good possibility that the Rev-Perfs you find are rare.

The listing notes the U.S. Catalog ratings for the patterns in postage stamps and preliminary (bold) ratings when found in revenues. The preliminary ratings are based on my 15 years of studying Rev-Perfs and the collective experience of the project's working group. As soon as possible, I would like to conduct a survey of the Club members and refine these ratings. I don't think any of the F ratings will change, but some of my E's will become D's and some of my A's may become B+'s or B's. The general pattern of their being common or scarce is unclear at present.

Perhaps the most revealing information in the listing is that a lot of postal perfins with high U.S. Catalog ratings (B, B+, A) are rated low (F, E, D) when the same designs are found in revenues. The reason for this extreme change in the ratings may be easily understood if we examine the users of these perfin designs. All the users whose pattern's value drops from a high postal rating to a low revenue rating are stockbrokers. In the listing presented later I've placed an asterisk (*) next to those designs whose user are confirmed to be stockbrokers.

Stock Transfer Stamps

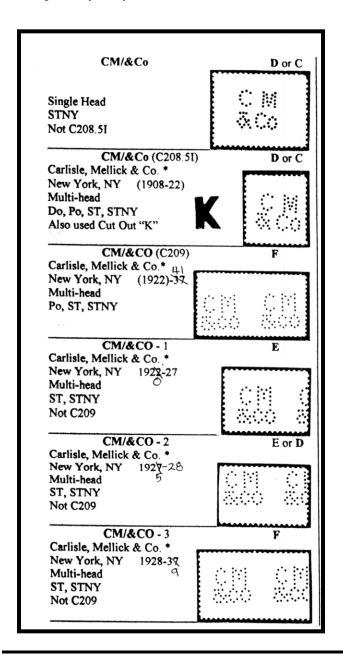
Stockbrokers, and companies involved with the trading of securities, were required by federal and some state laws to use revenue stamps. Some of these revenue stamps were valued as high as \$10,000 for each stamp. Back then, a thief could retire by stealing and fencing a few sheets of these revenue stamps. The companies must have been very concerned about the theft of high value revenues, and placed a high priority on these stamps being perforated. The scarcity of the patterns in postage stamps, indicates that were less concerned about the loss of the lower valued postage stamps. A closer look at one of these stockbrokers may be helpful.

Carlisle, Mellick & Co. used a number of perforators. Two of their perforators are listed in the U.S. Perfins Catalog as perfin designs C208.5I and C209. On the next page I show part of the work sheet that shows these designs with revenue data. C208.5I has an A rating when found in postage. Based on the quantities we found of this design in revenues we ultimately gave it a D rating

C207	CMT/Co	2H 1902-14 PC 51/4/4-3; 8-16-7/7-6	•	Callender, McAuslan Troup & Company Providence, RI
C208	CM/WB	2H 4; 7-12/12-12	٠	Critchell, Miller, Whitney & Barbour Chicago, IL
C208.5I	CM/&Co	2H 1908-22 R 5½/5½-5½-4½; 8-17/14-8-8	٠	Carlisle, Mellick & Company New York, NY
C209	CM/&CO	2H 1922 RPC 6/4½; 8-14/12-7-8	•	Carlisle, Mellick & Company New York, NY
C210	[CN]	M 1908 [6-12]; [37]		

as a Rev-Perf. B+ is the postal rating for C209 but in revenues the design is so common we should give it a Z rating. In addition, we found three new designs that, to the naked eye, look the same as C209. These new perfin designs are very common in revenue stamps, but have not yet been reported in postage stamps.

If you study the listing you will find that this trend is consistent for most of the stockbrokers. Their companies used stock transfer stamps and the Rev-Perfs are usually very common in these stamps. Very early issues, however, can be scarce.



Their designs are also found in documentary and future delivery stamps which are not as common.

The listing also shows that a few stockbrokers must have routinely perforated all their types of stamps because their rating in postage and revenues are usually the same.

Companies that were not involved with the trading of securities are shown in the listing without an asterisk. If you study them you will notice that many D, E and F rated postal designs have an A or B rating when found in revenue stamps. These companies were probably not required to use a lot of revenue stamps in their normal business activities. Therefore, their patterns are usually scarce as Rev-Perfs. Their perfin designs can be found in documentary, proprietary, wine, and narcotics stamps.

Our research has discovered about 300 new perfin types similar to postal perfins that have not yet been reported in postage. They will be included in the perfins section of the new catalog. We feel that perfin collectors will enjoy using this section. It will be a nice place to store all the Rev-Perfs that many of us mix with our postal perfins.

Potentially, a very large number of postal perfins in the U. S. Perfins Catalog will be found in revenue stamps. A perfin user involved in a legal transaction may have been required to use revenue stamps. A simple land deal that involved a deed required documentary revenue stamps. This type of document was usually stored away in a safe place and the stamps on the document may have never been soaked off or reached collectors' hands. Perfinned postal covers have a much greater chance to be found by perfin collectors.

On the following two pages I present a listing of U.S. Perfins Found in Both Postage and Revenues Stamps and their Comparative Ratings c = Confirmed, * = Stockbroker, () Ratings in Postage, Bold A, B, C, D, E, F are preliminary ratings in Rev's.

Another Appeal for Help...

Have fun searching for rare Rev-Perfs and please let us know what you find, so we can include it in the new catalog.

Listing of U.S. Perfins Found in Both Postage and Revenues Stamps and their Comparative Ratings c = Confirmed, * = Stockbroker, () Ratings in Postage, Bold A. B. C. D. E. F are preliminary ratings in Revenues

c A8 (B) B	c = Confirmed, * = Stockbroker, () Ratings in Postage, Bold A, B, C, D, E, F are preliminary ratings in Rev's.							
c A18 (E) B	c A8 (B) B	c* B130 (B+) D						
c A36 (D) A c B165.5 (A) A c A370 (D) A c B170 (C+) A c A57 (C+) A c B224 (B) A c B224 (B) A c B225 (B+) B c C233 (D+) A c B225 (B+) B c C323 (D+) A c B225 (B+) B c C323 (B+) A c B227 (B+) B c C323 (B+) A c B227 (B+) B c C323 (B+) A c B225 (B+) B c C323 (B+) A c B225 (A+) B c C325 (B+) B	c A18 (E) B	c* B133.5 (A) D	c C264 (E) A		1 ' '			
c A39 (D) A c A35 (C) A c B170 (C+) A c B24 (B) A c A35 (B) D c A35 (A) D c B224 (B) A c B224 (B) A c B224 (B) A c B224 (B) A c B225 (B) A c B224 (B) A c B225 (A) B B225 (A) A c B225 (B) A c B225 (A) B B225 (A) A c B225 (B) A c B225 (A) B C B225 (A)	c A36 (D) A	B165.5 (A) A						
c A45 (C+) A c* A46 (B) D c* B224 (B) A c* C* A50 (B) A c* C* A50 (B) A c* C* A50 (B) A c* B224 (B) A c* B223 (D+) A c*	c A39 (D) A	c B170 (C+) A	1 .					
c A46A (B) D c A56 5 (D) A c B224 (E) A c A63 (E) A c B229 (D) A c B225 (B) F G C 299.5 (A) B c C 299.5 (A) B c C 230.3 (B) A A87.2 (E) A c B237 (B) A A87.9 (E) A c B234 (E) A C A22 (C)	c A45 (C+) A	c* B172.5 (A) F	1 ' '	c E2 (C+) D				
c A56.5 (D) A c B26.5 (B)+F c C A59.5 (A) B c A56.5 (B) A c B231 (D+) A c A70 (D) A c A70 (D) A c B233 (D+) A c B231 (D+) A c B231 (D+) A c B231 (D+) A c A87.9 (B) A c B231 (B) B c B231 (B) B c B231 (B) B c B231 (B) A c B231 (B) B c B231 (B) B c B231 (B) A c A87.9 (B) A c B234 (B) B c C B26 (B) A c B234 (B) B c C B26 (C) A c B234 (B) B c C B26 (C) A c B234 (B) B c C B26 (C) A c C C C C C C C C C C C C C C C C C C	c* A46A (B) D	c B224 (E) A		c* E10 (C+) F	, , ,			
c A36 (E) A c A37 (C) A c A37 (C) A c B233 (D+) A c B33 (D+) A c B34 (E) A c B34 (E) A c B34 (E) A c B34 (E) A c C343 (C)	c A56.5 (D) A			1				
c A70 (D) A A87.9 (E) A C B2337 (b) + A A87.9 (E) A C B237 5 (B+D) D C C 3230 A(C) A C B241 (E) A C A87.9 (E) A C B224 (E) B B C A212.13 (D+) B C A121.30 (D+) A C A125 (D+) C C A131 (A) D C C A130 (C) A C C A130 (C) A C C A130 (C) A C C A95 (D+) A C C A125 (D+) C C A1317 (A) E C C A130 (C) A C C A95 (D+) A C A125 (D+) C C A1317 (A) E C C A130 (C) A C C C C C C C C C C C C C C C C C C	c A63 (E) A	c B229 (D) A		1				
A872 (E) A A872 (E) A A879 (B) A C A872 (C) A C A872 (C) A C C A92 (C) A C C B224 (E) B B261 (C) A C C C336 (D) D C C336 (D) A C C336 (E) A C C C C C C C C C C C C C C C C C C C	c A70 (D) A	c B233 (D+) A		1	, ,			
A87.9 (E) A c A92 (C) A c P22 (C) A c P32 (E) B B 261 (C) A c P32 (E) A c P32 (E) A c P33	A87.2 (E) A	c B237.5 (B+) D	c C323A (C) A	c E26 (B) A	c G23 (D) A	. ' '		
c A92 (C+) A c ** A92.5 (A) E c B254 (E) B B261 (C) A C 356.12 (C+) A C 356.12	A87.9 (E) A	c B241 (E) A			1 '			
c 249 (E) A C 2262 (E) A C 2	c A92 (C+) A	c B254 (E) B		E30 (B) A				
c A94 (E) A c A95 (D+) A c A95 (D+) A c A95 (D+) A c A95 (D+) A c A121.3 (D+) B c A121.3 (D+) A c A128	c* A92.5 (A) E	B261 (C) A	C356.12 (C+) A	c* E38 (B) E	c G38 (E) A	1		
C A121.3 (D+) A C A125 (B+) C C C C C (C) A C C C C C C C A C C C C C C C A C C C C C C A C C C C C C C A C C C C C C C A C C C C C C C C A C	c A94 (E) A	c B262.5 (A) C	c C360.3I (A) B	c* E39 (C) F				
c A121.3 (D+) B c A121.3 (B+) A c C10 (E) A c **C380.5 (A) D c **C****C***C***S80.5 (A) D c C390 (C) A c C20.5 (B) A c C393 (C+)	c A95 (D+) A	c* B264 (B) F	C362 (E) A					
c A121 3A (B+) A c C10 (E) A c C20 (C) A c C30 (C) A c	` '		c C376 (E) A	c E57 (D+) A				
c A125 (B+) C		c C10 (E) A		c E58 (E) A				
c * A137 (A) E c C 23.5 (B) A c C 33.5 (A) C c * C39.5 (A) A c C 238.7 (A) D c C 33.7 (A) D c C 413 (C) A		c C20 (C) A	c C390 (C) A	c E59 (D) A				
c A138 (E) A c ** A141.5 (A) D c C35 (D+) A c C408.5 (A) A c C35 (D+) A c C35 (D+) A c C409 (D) A c C409 (D) A c C416 (D+) A c C39 (D+) A c C41 (D+) A c C41 (D+) A c C41 (D+) A c C41 (D+) A c C415 (E) D c C425 (D) A c C425 (D) A c C425 (D) A c C51 (E) B c C52 (D+) B c C52 (D+) B c C52 (D+) B c C56 (E) A c C65 (C) A c C65 (C) A c C65 (C) A c C65 (C) A c C409 (D) A c C4224 (E) A c C424 (E) A c C424 (E) A c C425 (D) B c C427 (D) A c C424 (E) A c C425 (D) B c C427 (D) A c C425 (D) A c C438.3 (B+) B c C593 (C) B C593 (C) B c		c C25.5 (B) A						
c* A141.5 (A) D		c C34.5 (A) C	c* C398.5 (A) E	E86 (A) A				
c A143 (C+) A	` '	c C35 (D+) A	c C408,5 (A) A					
c* A160 (B+) E c A2179 (D+) A c A179 (D+) A c A183 (C) A c* C418 (E) A c* C425 (D) A c* C418 (E) A c* C425 (D) A c* C425 (D) A c* C425 (D) A c* C426 (C) A c* C45 (E) B c* C52 (D+) B c* C52 (D+) B c* C425 (D) A c* C426 (C) A c*	c A143 (C+) A	c C38.7 (A) D	c C409 (D) A	E125 (C) A				
C A179 (D+) A C A183 (C) A C C45 (E) B C A189 (C)+A C C45 (E) B C C45 (E) B C C51 (E) B C C51 (E) B C C52 (D+) B C C51 (E) B C C52 (D+) B C C63 (E) A C C65 (C) A C C73.5 (B) A C	c* A160 (B+) E	c C39 (D+) C	c C413 (C+) A	c E127 (D) A				
c A183 (C) A c A199 (C+) A c C51 (E) B c C52 (D+) B c C52 (D+) B c C52 (D+) B c C52 (D+) B c C54 (C+) A c C63 (E) A c C65 (C) A c C65 (C) A c C65 (C) A c C73.5 (B) A c A224 (E) A c A248 (E) A c A270-14 (E) A c A270-14 (E) A c A270-14 (E) A c A288.5 (B) A c A270-19 (D) A c C139 (D) A c C160 (B) B c C194 (E) B c C160 (B) B c C194 (E) B c C19	c A179 (D+) A	C41 (D+) A	c C418 (E) A	E131 (C+) A	c G104 (D) A			
c A199 (C+) A c c C51 (E) B c C52 (D+) B c C	c A183 (C) A	c* C45 (E) D	c C425 (D) A	c* E131.5 (B+) E	c* G111.5 (A) D			
c* A213.5 (B+) F		c C51 (E) B		E134.5 (A) A	c G120 (D) A			
C A221-1A (E) A C C63 (E) A C C63 (E) A C D9 (C) A C A221-22 (E) A C C65 (C) A C D16 (C) A C A221-22 (E) A C C65 (C) A C D16 (C) A C A221-42 (E) A C C73.5 (B) A C D22 (D) A C A248.3 (B+) B C A270-14 (E) A C A270-14 (E) A C A270-20 (C) A C	c* A213.5 (B+) F	c C52 (D+) B	c D4 (D) A	c* E135 (D) E		· · · · · · · · · · · · · · · · · · ·		
c A221-22 (E) A c C63 (E) A c C65 (C) A c D16 (C) A c A224 (A24 (E) A c A224 (E) A A24 (E) A A24 (E)	c A221-1A (E) A	C54 (C+) A	c D8 (B) A	c* E135.5 (A) E	c* G160 (C) C	, ,		
C A244 (E) A	c A221-22 (E) A		c D9 (C) A	c* E136 (C) D	c G172 (F) E			
C 723.5 (B) A C 723.5 (B) B C	c A224 (C) A		c D16 (C) A	c* E136.5 (B) D	c G172A (D+) C	c* H223 (A) E		
C A248.3 (B+) B C C* C93.5 (B+) E C* C93.5 (A) E C* C93.5	c A244 (E) A	C73.5 (B) A	c D22 (D) A		c G179 (C) A			
C A270-20 (C) A C A272 (F) A C C C139 (D) A C C C141 (C) A C C C149 (F) B C C C149 (F) B C C C150 (E) A C C C160 (B) B C C C160 (C) A C160	c A248.3 (B+) B	1 , ,		c F8 (E) A	c G205.5 (A) B			
C A272 (F) A	c A270-14 (E) A			c F11 (D) A	c* G206.5 (A) E			
C A288.5 (B) A C C141 (C) A C * D40A (B+) F C * D40.3 (B+) F C * D40.5 (B+) E C * D40.5 (B+	c A270-20 (C) A	1 2				c* H230.3 (A) E		
C A288.7 (A) C C C149 (F) D C C150 (E) A C C150 (E) A C C150 (E) A C C160 (B) B C C160 (B) B C C160 (B) B C C163 (C) A C C163 (C) A C C163 (C) A C C177.7 (A) C C C177.7 (A) C C C194 (F) B C C194 (F) B C C194 (F) B C C194 (F) B C C198 (E) A C C210 (C) A C C202 (B) F	c A272 (F) A	, ,		c* F39.5 (C+) E	c* G214 (A) E	c H231 (B+) A		
C A291 (D) A	c A288.5 (B) A					c* H232 (E) F		
C C160 (B) B								
C B27A (C+) A	c A291 (D) A	c C150 (E) A	c* D40.5 (B+) E	c F49 (B) A	c H22 (E) A	c 19 (D) A		
C B42 (E) A				c F58 (C+) A		c 118 (C) A		
C B44A (D) A C C194 (F) B C C196 (B) B C C196 (B) B C C196 (B) B C C196 (B) B C C198 (E) A C C198 (E) A C C198 (E) A C C202 (B+) F C C202 (B+) F C C208 (C+) A C C208 (C+) A C C208 (C+) A C C208 (C+) A C C209 (B+) F C C212 (D+) B C C214.5 (B) A C C214.5 (B) A C C216 (E) A C C216 (E) A C C219 (F) C C219 (F) C C C219 (F) C219	c B27A (C+) A			F66 (C+) A	c H30 (C+) A	c I59 (B) A		
C B45 (E) A	c B42 (E) A		` ′	c F85 (C) A	c H32 (D+) A	c I68 (D) A		
C B46 (D) A	c B44A (D) A	1		F86 (E) A		c* 176.5 (C) A		
c* B52 (D) D c* C202 (B+) F c D78 (B) A c F119 (C) A c H66 (D+) A c 191.1 (E) A c* B54 (E) E c C208 (C+) A c* D79.5 (A) D c F150 (B) A c F150 (B) A c 191.1 (E) A c B74 (E) A c* C208.5I (A) D c* D90 (B) D c F158 (D) A H78.5I (A) A c 191.1 (D+) A c B82 (D+) A c* C209 (B+) F c D111 (E) A c F158 (D) A c H83.5 (E) A c 1104 (C) A c* B82.3 (A) E c C212 (D+) B c D115.5 (A) E c F174.5 (A) F c H89 (E) A c 1104 (C) A c B87 (C) A c C214.5 (B) A c D129 (E) A c F185.5 (A) B c H90 (C+) A c 1106 (E) C c B103 (E) A c C216 (E) A D130 (F) A c F186 (D) A c H97 (D+) A c I119.7 (A) C c B116-21 (D) A c C217 (D+) B c D131 (D+) A c F195 (D) F H100 (B+) A c I119.7 (A) C c B120 (E) A c C219 (F) C c D137 (C) A c F203 (C) A c* H107 (C) F c J8 (E) A c* B129.3 (A) D c C219.7 (A) D c D137 (C) A c D137 (C) A c F205 (D+) A c H107.5I (A) E c J21 (D) A		' '		c* F91 (B) E	c* H58 (A) E	c* I77 (D) E		
c* B52 (D) D c* C202 (B+) F c D78 (B) A c F119 (C) A c H66 (D+) A c 191.1 (E) A c* B54 (E) E c C208 (C+) A c* D79.5 (A) D c F150 (B) A c F150 (B) A c 191.1 (E) A c B74 (E) A c* C208.5I (A) D c* D90 (B) D c F158 (D) A c H78.5I (A) A c 191.1 (E) A c B82 (D+) A c* C209 (B+) F c D111 (E) A c F158 (D) A c H83.5 (E) A c 191.14 (D) A c* B82.3 (A) E c C212 (D+) B c* D115.5 (A) E c* F174.5 (A) F c H89 (E) A c 1104 (C) A c B87 (C) A c C214.5 (B) A c D129 (E) A c F185.5 (A) B c H90 (C+) A c 1106 (E) C c B103 (E) A c C216 (E) A D130 (F) A c F186 (D) A c H97 (D+) A c H119.7 (A) C c B120 (E) A c C219 (F) C c D131 (D+) A c* F195 (D) F c H100 (B+) A c J8 (E) A c* B129.3 (A) D c C219.7 (A) D c D137 (C) A c F203 (C) A c* H107.5I (A) E c J21 (D) A						I82 (C) A		
c B74 (E) A c* C208.5I (A) D c* D90 (B) D c F158 (D) A H78.5I (A) A c I91.14 (D) A c B82 (D+) A c* C209 (B+) F c D111 (E) A c F166 (E) A c H83.5 (E) A c I104 (C) A c* B82.3 (A) E c C212 (D+) B c* D115.5 (A) E c* F174.5 (A) F c H89 (E) A c I106 (E) C c B87 (C) A c C214.5 (B) A c D129 (E) A c F185.5 (A) B c H90 (C+) A c I113.5 (A) A c B103 (E) A c C216 (E) A D130 (F) A c F186 (D) A c H97 (D+) A c I119.7 (A) C c B120 (E) A c C217 (D+) B c D131 (D+) A c* F195 (D) F H100 (B+) A c J8 (E) A c* B129.3 (A) D c C219.7 (A) D c D137 (C) A c F203 (C) A c* H107.5I (A) E c J21 (D) A	c* B52 (D) D	c* C202 (B+) F	* *		c H66 (D+) A	c 191.1 (E) A		
C B82 (D+) A C* C209 (B+) F C D111 (E) A C* B115.5 (A) E C D129 (E) A C D129 (E) A C D131 (D+) A C D130 (F) A C D135 (C) A C* B129.3 (A) D C C219.7 (A) D C D137 (C) A C D137	c* B54 (E) E	, ,	c* D79.5 (A) D		H75 (C) A	c 191.7 (D+) A		
c* B82.3 (A) E c C212 (D+) B c* D115.5 (A) E c* F174.5 (A) F c H89 (E) A c I106 (E) C c B87 (C) A c C214.5 (B) A c D129 (E) A c F185.5 (A) B c H90 (C+) A c I113.5 (A) A c B103 (E) A c C216 (E) A D130 (F) A c F186 (D) A c H97 (D+) A c I119.7 (A) C c B120 (E) A c C219 (F) C c D131 (D+) A c* F195 (D) F H100 (B+) A c J8 (E) A c* B129.3 (A) D c C219.7 (A) D c D137 (C) A c F203 (C) A c* H107 (C) F c J21 (D) A			* *		H78.5I (A) A			
C B87 (C) A C C214.5 (B) A C D129 (E) A D130 (F) A C B103 (E) A C C216 (E) A D130 (F) A C B116-21 (D) A C C217 (D+) B C B120 (E) A C C219 (F) C C C19.7 (A) D C D137 (C) A C D137 (C) A C C219.7 (A) D C D137 (C) A C C219 (F) C C D137 (C) A C C219.7 (A) D C	c B82 (D+) A	, ,			c H83.5 (E) A	4 7		
C B103 (E) A C C216 (E) A C D130 (F) A C D131 (D+) A C D131 (D+) A C D131 (D+) A C D135 (C) A C* F195 (D) F C C219 (F) C C D135 (C) A C* F203 (C) A C* H107 (C) F C D137 (C) A C* F205 (D+) A C* H107.51 (A) E C D121 (D) A			c* D115.5 (A) E	c* F174.5 (A) F	c H89 (E) A	c 1106 (E) C		
C B103 (E) A C C216 (E) A C D130 (F) A C B116-21 (D) A C C217 (D+) B C D131 (D+) A C D131 (D+) A C D135 (C) A C* F195 (D) F C C219 (F) C C D135 (C) A C* F203 (C) A C* H107 (C) F C F205 (D+) A C* H107.51 (A) E C J21 (D) A	c B87 (C) A	, ,		` '	c H90 (C+) A			
c B120 (E) A	c B103 (E) A				c H97 (D+) A			
c* B129.3 (A) D C C219.7 (A) D C D137 (C) A F205 (D+) A C* H107.5I (A) E C J21 (D) A					H100 (B+) A			
						c J8 (E) A		
B129.5 (B+) A C C229 (E) C C* D140 (E) F C F207 (C) A C* H115.5 (A) D C 123 (B) A	c* B129.3 (A) D			F205 (D+) A	c* H107.5I (A) E			
	B129.5 (B+) A	c C229 (E) C	c* D140 (E) F	c F207 (C) A	c* H115.5 (A) D	c J23 (B) A		

Listing of U.S. Perfins Found in Both Postage and Revenues Stamps and their Comparative Ratings c = Confirmed. * = Stockbroker. () Ratings in Postage. Bold A. B. C. D. E. F are preliminary ratings in Revenues.

c = Confirmed, * = Stockbroker, () Ratings in Postage, Bold A, B, C, D, E, F are preliminary ratings in Rev's.						
J26 (A) A	c L76 (E) A	c M299 (D+) A	c* P236.5 (B) F	c S144.5 (A) A	c U95 (E) A	
c* J35 (E) E	c L94 (C+) A	c* M310.5 (B) D	P239 (C+) A	c* S163.5 (A) E	c U99.7 (D) A	
c* J36 (A) E	c L116 (D) A		c* P239.5 (A) E	c* S175 (A) D	c U102.5 (A) E	
c J45 (C+) A	c L122 (E) A	c N0.5 (B) C	c* P242 (D+) E	c S176 (D) A	U103 (D) A	
c* J55 (B+) F	L130 (E) A	c N22 (D+) A	c* P243 (D) E	c S190 (D+) A	c U104 (B) A	
c* J55.5 (B+) E	c L130.1 (E) A	c N34 (C) A	c P247 (B) B	c S195-4 (B+) A		
c J70 (D) A	c* L132 (E) E	c N44 (F) D	P248 (D+) A	c S195-5 (D+) A	c W6 (E) A	
c J88 (C) A	c L134 (D) A	c N53 (E) A	c* P251 (B+) E	c S207 (C) A	c W7.3 (E) A	
c J93 (B) B	c L148.5I (A) B	N70 (E) A	c P251.5 (A) B	c S214 (D+) A	c W7.4 (E) A	
c J107 (E) A	c* L165 (A) E	c N80 (D+) A	c P254 (E) A	c S215 (F) A	c W7.9 (E) A	
c* J110.5 (A) E	c* L165.5 (A) E	c N90 (D) A	c* P258 (B+) E	c S236 (C+) A	c W8 (E) A	
c J111 (C) C	* L166 (B+) A	c* N94 (B) E	c P259 (B) A	c* S248 (B+) E	c W8.1 (E) A	
c J112.5 (A) C	c L168.8 (A) C	c N101 (D) A	c* P260 (B+) C	c S258 (B) A	W54 (B) A	
J118 (A) A	c* L169 (E) E	N102 (C+) A	c* P261 (B) E	c* S268 (D+) A	c* W55 (B+) E	
c* J135 (A) E	c* L169.5 (B) E	c* N108.5 (B) C		S270 (B) A	W55.5 (B+) A	
c J140 (C+) A	c* L170 (D+) C	c N122 (E) A	c Q3 (E) A	c S280 (D) A	c W57 (B) A	
c* J141 (D) E	L170.5 (A) A	c N142 (D+) A	c Q5 (E) A	c* S288 (D) E	c W72.1 (F) A	
c* J141.5 (C+) E	c L174 (D) A	c N148 (D) A	Q6 (D+) A	c* S296 (B) D	c W72.38 (E) A	
c* J142 (B+) E		c N158.5 (E) A		c S307 (E) A	W72.63 (D) A	
c J148 (B) A	c M2 (F) A	N167 (D) A	c R29 (A) C	c S309 (C) A	W72.75 (D) A	
J154 (B+) A	M8.7 (E) A	c N170 (E) A	R34 (D) A	c* S331.5 (A) D	c W79 (C+) B	
c* J165.5 (A) E	c M43 (D+) B	N182 (F) A	c R37 (B) A	c* S335.5 (A) E	c W80 (E) A	
c* J166 (A) D	c M49 (C+) A	c N182A (E) A	c* R71 (B+) E	c* S336 (D) F	c W84 (E) A	
c* J166.3 (A) E	c M54 (C) A	c N205.1 (C+) B	c R72 (B+) B	c* S336.5 (A) D	c W97.5 (A) B	
J166.5 (C) A	c* M60 (B) E	c N205.3 (C) B	c R81 (D) A	c* S336.7I (A) E	W104 (D) A	
c* J173 (A) E	c* M61 (D+) E	c N210.5 (A) C	R86 (D) A	c* S346 (B) C	c* W115 (C+) F	
c* J174 (E) F	c M67 (C) A		c R87 (E) A	c* S356.5 (A) C	c* W115.5 (A) D	
c* J175 (B+) F	c M73 (C+) A	c O1 (B+) D	c R87.5 (D) A	c S362 (D) B	W121 (B+) A	
	c* M77.5 (B+) E	c O6 (D) A	c R121A (E) A	c S365 (C) A	W122A (D+) A	
c K5 (E) A	c M82 (E) A	O12 (E) A	c R126 (E) A	1	c* W125.5 (A) F	
c K37.7 (D+) A	M84 (C) A	c* O17 (D) E	R154 (C) A	c* T14.5 (A) C	c* W135 (B+) E	
c* K40.5I (A) B	c M103 (C) A	c* O17.5 (A) E	c* R161 (C+) E	c T24 (E) A	c W146.5 (C) A	
c* K41 (C+) B	c M117 (B+) A	O22 (D) A	c R169 (C+) A	c* T28.5 (A) E	c W162 (C) A	
c* K42 (D) D	c M118 (A) B	O55 (D+) A	:	c T39 (B) A	c* W174.5 (A) E	
c* K54 (C) E	c M146A (C+) A	O99.5 (E) A	c S2.16 (E) A	T43.5 (D) A	W190 (A) A	
K54.3 (B) A	c M153 (D) A		c S2.19 (C+) A	c T45 (B) A	W190.5 (A) A	
c K64 (B+) A	c M154 (E) A	c P15 (E) A	c S8 (D) A	T48 (C+) A	c W193 (C) A	
c* K64.5 (A) E	c* M157I (B) E	P49 (C+) A	c S9 (F) A	T49 (C) A	c* W210.3 (A) E	
c K67 (B) A	c* M166.5I (A) E	c* P51.3 (B) E	c S14 (D+) A	c* T56.5 (A) C	c* W210.5 (A) E	
c K74 (C+) A	c* M167.5 (A) D	c* P53.5 (A) E	c* S21.5 (A) C	c* T65.5 (A) E	c W222.5 (A) C	
	c* M197.7 (C) D	c P55 (E) A	c S26 (D+) A	c* T74 (A) E	c W224 (E) A	
c L5 (E) A	c* M253.5 (A) C	c P56 (E) A	c S48 (C+) B	T79 (B) A		
c L8(D+)A	M256 (C) A	c P56.17 (D) A	c S54 (B) A	c T81 (F) A	Z1 (E) A	
c L13.5 (A) A	c M257 (E) B	P56.20 (E) A	c S63A (E) A	c* T121 (C) F	c ZIA (D) A	
L18.3 (A) A	c M259 (E) B	c P56.21 (E) A	c S76 (C) A	c* T121.1 (A) F		
c* L18.5 (A) E	c* M276.5 (B+) B	c P92 (A) A	c S80 (E) A		c No.9 (E) A	
c L27 (E) A	c* M278.5 (A) E	c P100.7I (A) B	c S85 (C) A	c U25 (C) A		
L30 (D) A	c M279 (D) A	c* P105.5 (A) E	c* S91.3 (A) E	c U47.5 (B) A	c Des.9 (C) A	
c L36 (E) A	c M280 (B) C	c P109 (C+) A	c* S91.5 (A) C	c U54 (E) A	c Des.13 (C) A	
c L44 (E) A	c* M281 (B+) E	c P118 (C) E	c S94 (C+) A	U72 (D+) A	Des.14 (E) A	
L46 (D+) A	c* M282I (C+) E	c P138 (E) A	c S103 (E) B	c U72A (E) A	c Des.16 (B) E	
c* L49.5 (A) E	M286 (D+) D	c P168 (D+) A	c S104 (A) C	c U75 (D) B	c Des.33 (B+) E	
c* L49.6 (A) D	c M287 (D+) A	c P234 (D) B	c S107 (D) A	c U80.5 (C) A	c Des.39 (D) A	
c L57 (E) A	M288 (C) A	P235.5 (B+) A	c S114B (B) A	U82-1 (E) A	c Des.40 (C+) C	
c L60-1 (E) A	c* M292.5 (A) D	c P235.7I (A) C	c* S144 (A) E	c U90 (A) C	c Des.41 (D) B	