[] Dendrochronology Program Library Run MHW\_H Program COF 16:02 Wed 07 Mar 2007 Page 1

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[] P R O G R A M C O F E C H A Version 6.06P 26365

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QUALITY CONTROL AND DATING CHECK OF TREE-RING MEASUREMENTS

Title of run: Mount Hunger-Waterbury-High Corr3(again)

File of DATED series: mhw\_high\_compact\_corr3.dta

Time span of Master dating series is 1907 to 2006 100 years

Continuous time span is 1907 to 2006 100 years

Portion with two or more series is 1907 to 2006 100 years

>> 22A 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 22A 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 22B 1959 absent in 1 of 20 series, but is not usually narrow: master index is .421

>> 22B 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 23A 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 23A 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 23A 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 23B 1999 absent in 2 of 20 series, but is not usually narrow: master index is .364

>> 23B 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 23B 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 23B 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 24a 1994 absent in 2 of 20 series, but is not usually narrow: master index is .492

>> 24a 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 24a 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 24a 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 24a 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 24b 1991 absent in 1 of 20 series, but is not usually narrow: master index is .002

>> 24b 1992 absent in 1 of 20 series, but is not usually narrow: master index is -.336

>> 24b 1995 absent in 1 of 20 series, but is not usually narrow: master index is .291

>> 24b 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 24b 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 24b 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 24b 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 25A 1996 absent in 1 of 20 series, but is not usually narrow: master index is .254

>> 25A 1999 absent in 2 of 20 series, but is not usually narrow: master index is .364

>> 25A 2000 absent in 3 of 20 series, but is not usually narrow: master index is .357

>> 25A 2001 absent in 2 of 20 series, but is not usually narrow: master index is .234

>> 25A 2002 absent in 3 of 20 series, but is not usually narrow: master index is -.084

>> 25A 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 25A 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 25A 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 25A 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 25B 2001 absent in 2 of 20 series, but is not usually narrow: master index is .234

>> 25B 2002 absent in 3 of 20 series, but is not usually narrow: master index is -.084

>> 25B 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 25B 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 25B 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 25B 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 26A 2000 absent in 3 of 20 series, but is not usually narrow: master index is .357

>> 26B 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 27A 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 27A 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 27A 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 27A 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 27B 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 28A 1956 absent in 1 of 20 series, but is not usually narrow: master index is .018

>> 28A 1994 absent in 2 of 20 series, but is not usually narrow: master index is .492

>> 28A 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 28A 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 28A 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 28A 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 28B 1937 absent in 1 of 20 series, but is not usually narrow: master index is .527

>> 28B 1955 absent in 1 of 20 series, but is not usually narrow: master index is 1.162

>> 28B 2002 absent in 3 of 20 series, but is not usually narrow: master index is -.084

>> 28B 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 28B 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 28B 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 28B 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 29A 2003 absent in 8 of 20 series, but is not usually narrow: master index is .026

>> 29A 2004 absent in 10 of 20 series, but is not usually narrow: master index is .010

>> 29A 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 29A 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 29B 2000 absent in 3 of 20 series, but is not usually narrow: master index is .357

>> 30A 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 30A 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

>> 30B 2005 absent in 13 of 20 series, but is not usually narrow: master index is .817

>> 30B 2006 absent in 16 of 20 series, but is not usually narrow: master index is .373

ABSENT RINGS listed by SERIES: (See Master Dating Series for absent rings listed by year)

21A 1 absent rings: 1942

21B 1 absent rings: 1936

22A 2 absent rings: 2005 2006

22B 2 absent rings: 1959 2006

23A 3 absent rings: 2004 2005 2006

23B 4 absent rings: 1999 2004 2005 2006

24a 7 absent rings: 1962 1990 1994 2003 2004 2005 2006

24b 8 absent rings: 1991 1992 1993 1995 2003 2004 2005 2006

25A 11 absent rings: 1972 1990 1996 1999 2000 2001 2002 2003 2004 2005 2006

25B 6 absent rings: 2001 2002 2003 2004 2005 2006

26A 1 absent rings: 2000

26B 1 absent rings: 2006

27A 4 absent rings: 2003 2004 2005 2006

27B 1 absent rings: 2006

28A 8 absent rings: 1956 1972 1993 1994 2003 2004 2005 2006

28B 7 absent rings: 1937 1955 2002 2003 2004 2005 2006

29A 4 absent rings: 2003 2004 2005 2006

29B 1 absent rings: 2000

30A 2 absent rings: 2005 2006

30B 2 absent rings: 2005 2006

76 absent rings 3.952%

Year Value No Ab Year Value No Ab Year Value No Ab Year Value No Ab Year Value No Ab Year Value No Ab

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1950 1.049 20 2000 .357 20 3<<

1951 1.386 20 2001 .234 20 2<<

1952 1.412 20 2002 -.084 20 3<<

1953 .732 20 2003 .026 20 8<<

1954 .762 20 2004 .010 20 10<<

1955 1.162 20 1<< 2005 .817 20 13<<

1956 .018 20 1<< 2006 .373 20 16<<

1907 -3.374 2 1957 -1.033 20

1908 -1.247 5 1958 -1.146 20

1909 -.328 7 1959 .421 20 1<<

1910 -.482 8 1960 -.552 20

1911 .882 13 1961 -.479 20

1912 -1.113 14 1962 -2.067 20 1

1913 -.241 17 1963 .972 20

1914 .494 18 1964 -.834 20

1915 1.543 19 1965 -.008 20

1916 -.243 20 1966 .593 20

1917 -.578 20 1967 1.256 20

1918 .675 20 1968 -.619 20

1919 -1.199 20 1969 .812 20

1920 1.288 20 1970 .795 20

1921 .838 20 1971 -.388 20

1922 -.267 20 1972 -.581 20 2

1923 -.707 20 1973 -.190 20

1924 1.564 20 1974 .423 20

1925 1.225 20 1975 .324 20

1926 .511 20 1976 -.345 20

1927 .937 20 1977 .988 20

1928 .087 20 1978 1.365 20

1929 -1.420 20 1979 .248 20

1930 -.301 20 1980 -2.390 20

1931 .261 20 1981 -2.704 20

1932 -2.616 20 1982 .345 20

1933 -1.255 20 1983 .130 20

1934 1.055 20 1984 .952 20

1935 1.453 20 1985 -.981 20

1936 -1.450 20 1 1986 .011 20

1937 .527 20 1<< 1987 .201 20

1938 1.023 20 1988 .720 20

1939 .408 20 1989 .368 20

1940 -.215 20 1990 -.566 20 2

1941 -1.701 20 1991 .002 20 1<<

1942 -.629 20 1 1992 -.336 20 1<<

1943 1.130 20 1993 -.431 20 2

1944 -.044 20 1994 .492 20 2<<

1945 -2.302 20 1995 .291 20 1<<

1946 -.749 20 1996 .254 20 1<<

1947 -.054 20 1997 .771 20

1948 -.568 20 1998 .873 20

1949 .605 20 1999 .364 20 2<<

PART 5: CORRELATION OF SERIES BY SEGMENTS: Mount Hunger-Waterbury-High Corr3(ag 16:02 Wed 07 Mar 2007 Page 5

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Correlations of 30-year dated segments, lagged 15 years

Flags: A = correlation under .4226 but highest as dated; B = correlation higher at other than dated position

Seq Series Time\_span 1905 1920 1935 1950 1965 1980

1934 1949 1964 1979 1994 2009

--- -------- --------- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ---- ----

1 21A 1911 2006 .61 .58 .57 .54 .68 .61

2 21B 1908 2006 .60 .59 .44 .40A .51 .47

3 22A 1914 2006 .68 .70 .51 .28B .35B .48

4 22B 1911 2006 .76 .77 .60 .21B .56 .57 Probably not right, but as good as I can get

5 23A 1908 2006 .80 .83 .82 .77 .63 .57

6 23B 1909 2006 .76 .63 .46 .31A .42 .41A

7 24a 1913 2006 .60 .66 .70 .55 .57 .72

8 24b 1912 2006 .89 .92 .88 .60 .40B .57

9 25A 1909 2006 .49 .71 .62 .60 .61 .73

10 25B 1916 2006 .47 .45 .45 .48 .37B .30B

11 26A 1913 2006 .72 .82 .89 .72 .54 .42B

12 26B 1908 2006 .71 .79 .77 .57 .45 .52

13 27A 1913 2006 .71 .75 .67 .77 .74 .65

14 27B 1910 2006 .79 .74 .55 .65 .71 .57

15 28A 1911 2006 .83 .76 .53 .34A .58 .65

16 28B 1915 2006 .83 .84 .64 .34A .47 .41A

17 29A 1907 2006 .74 .76 .78 .75 .59 .51

18 29B 1907 2006 .65 .72 .82 .70 .62 .66

19 30A 1911 2006 .80 .73 .55 .53 .55 .46

20 30B 1911 2006 .81 .79 .62 .57 .66 .59

Av segment correlation .71 .73 .64 .53 .55 .54

PART 6: POTENTIAL PROBLEMS: Mount Hunger-Waterbury-High Corr3(again) 16:02 Wed 07 Mar 2007 Page 5

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For each series with potential problems the following diagnostics may appear:

[A] Correlations with master dating series of flagged 30-year segments of series filtered with 32-year spline,

at every point from ten years earlier (-10) to ten years later (+10) than dated

[B] Effect of those data values which most lower or raise correlation with master series

Symbol following year indicates value in series is greater (>) or lesser (<) than master series value

[C] Year-to-year changes very different from the mean change in other series

[D] Absent rings (zero values)

[E] Values which are statistical outliers from mean for the year

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21A 1911 to 2006 96 years Series 1

[B] Entire series, effect on correlation ( .530) is:

Lower 1956< -.032 1911< -.027 1925< -.027 1942< -.018 1943< -.013 1990> -.012 Higher 1936 .036 1980 .032

[D] 1 Absent rings: Year Master N series Absent

1942 -.629 20 1

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1942 -4.8 SD

21A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1911 158 155 226 226 270 208 199 236 185

1920 252 223 173 153 179 107 160 138 115 84

1930 99 136 65 57 114 99 10 74 74 77

1940 54 34 0 22 70 44 39 47 45 76

1950 67 92 114 60 65 110 22 64 54 106

1960 63 60 31 57 33 31 71 96 66 68

1970 76 66 73 78 93 70 40 71 111 48

1980 8 10 54 56 92 48 54 69 158 140

1990 122 103 53 61 57 45 52 46 26 55

2000 18 6 6 10 13 51 70

====================================================================================================================================

21B 1908 to 2006 99 years Series 2

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1950 1979 0 -.34 -.01 .01 -.16 -.10 .19 -.03 .34 -.07 .06 .40\* .16 .10 -.14 .11 -.38 .17 -.14 .18 .01 -.10

[B] Entire series, effect on correlation ( .512) is:

Lower 1919> -.023 1909> -.017 1957> -.016 1965< -.013 1944> -.013 1999< -.011 Higher 1936 .046 1962 .022

1950 to 1979 segment:

Lower 1957> -.068 1965< -.039 1967< -.036 1968> -.033 1963< -.027 1979< -.022 Higher 1962 .148 1952 .036

[D] 1 Absent rings: Year Master N series Absent

1936 -1.450 20 1

21B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1908 104 210

1910 125 183 143 156 186 225 194 199 208 204

1920 237 192 159 143 194 141 142 136 139 101

1930 107 136 61 52 158 165 0 45 91 74

1940 42 64 31 95 115 56 35 36 49 53

1950 58 107 147 75 70 106 51 94 71 110

1960 79 67 27 52 53 35 91 54 66 107

1970 88 48 59 45 50 66 44 59 62 17

1980 16 18 124 70 84 44 59 88 135 121

1990 51 60 45 28 45 32 21 34 43 16

2000 31 37 24 17 6 33 30

====================================================================================================================================

22A 1914 to 2006 93 years Series 3

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1950 1979 4 .11 -.09 .24 .01 .15 -.05 .13 .01 -.05 -.21 .28|-.19 -.26 -.06 .41\* .01 -.07 -.18 -.14 .05 -.21

1965 1994 -8 .06 -.05 .36\* .16 .12 -.04 .13 .08 -.19 -.21 .35|-.07 -.23 -.25 .34 .26 -.14 -.24 -.20 .11 -.22

[B] Entire series, effect on correlation ( .486) is:

Lower 1967< -.053 1936> -.027 1988< -.021 1962> -.020 1957> -.016 2005< -.013 Higher 1945 .040 1981 .019

1950 to 1979 segment:

Lower 1967< -.145 1962> -.056 1957> -.046 1960> -.028 1953< -.021 1959< -.014 Higher 1968 .076 1958 .044

1965 to 1994 segment:

Lower 1967< -.150 1988< -.055 1985> -.029 1992> -.022 1990> -.016 1987< -.008 Higher 1981 .076 1980 .050

[D] 2 Absent rings: Year Master N series Absent

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1968 -5.7 SD

22A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1914 192 304 232 180 306 171

1920 301 235 240 196 358 316 186 190 181 131

1930 140 176 115 102 221 260 192 158 198 203

1940 181 95 77 130 132 43 88 147 94 214

1950 199 157 182 97 111 155 132 144 79 84

1960 113 111 105 153 92 98 87 49 31 70

1970 76 69 73 90 96 91 44 114 136 89

1980 43 25 98 55 55 54 70 42 29 32

1990 47 55 61 45 61 34 41 50 57 63

2000 31 16 3 3 9 0 0

====================================================================================================================================

22B 1911 to 2006 96 years Series 4

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1950 1979 -1 .02 .02 -.17 -.29 -.18 -.14 .10 -.24 .03 .39\* .21|-.21 .21 .24 .32 -.34 .02 -.28 .08 -.18 .00

[B] Entire series, effect on correlation ( .543) is:

Lower 1964> -.038 1959< -.036 1984< -.024 1977< -.021 1969< -.013 1957> -.012 Higher 1980 .048 1945 .026

1950 to 1979 segment:

Lower 1964> -.106 1959< -.094 1977< -.067 1969< -.041 1979> -.029 1957> -.027 Higher 1958 .078 1968 .046

[D] 2 Absent rings: Year Master N series Absent

1959 .421 20 1 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1959 -5.2 SD

22B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1911 245 187 225 200 293 212 174 342 196

1920 297 270 266 226 313 272 171 201 190 151

1930 188 255 150 118 276 299 161 185 270 247

1940 167 154 164 178 152 66 91 137 89 168

1950 182 203 248 197 181 168 96 134 30 0

1960 45 61 68 93 131 104 72 95 48 40

1970 61 47 42 59 53 68 70 32 58 77

1980 15 12 46 34 21 22 45 36 36 31

1990 25 46 38 37 53 36 38 35 46 55

2000 26 22 10 3 2 11 0

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23A 1908 to 2006 99 years Series 5

[B] Entire series, effect on correlation ( .681) is:

Lower 1985< -.027 1983< -.010 1981> -.009 1910> -.008 1984< -.007 1936> -.006 Higher 1980 .017 1932 .014

[D] 3 Absent rings: Year Master N series Absent

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1985 -5.4 SD

23A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1908 151 149

1910 220 264 162 216 294 277 220 173 247 201

1920 213 245 190 155 229 231 185 222 190 129

1930 140 130 70 81 164 169 74 106 138 62

1940 59 35 57 92 34 16 50 57 40 92

1950 100 107 92 86 88 113 79 56 44 58

1960 51 48 49 127 56 70 71 84 29 77

1970 83 62 36 43 49 69 41 78 52 40

1980 13 26 55 21 20 4 31 42 28 32

1990 12 21 17 27 22 26 16 29 41 19

2000 4 17 23 26 0 0 0

====================================================================================================================================

23B 1909 to 2006 98 years Series 6

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1950 1979 0 -.15 -.13 -.27 -.02 .03 .19 .24 .20 .26 -.15 .31\*-.11 .20 .00 -.05 -.15 -.22 -.16 -.12 .25 .14

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

1977 2006 0 .02 .05 -.17 .21 -.04 .27 .00 -.40 -.03 -.10 .41\* - - - - - - - - - -

[B] Entire series, effect on correlation ( .541) is:

Lower 1978< -.049 1950< -.019 1968> -.014 1948< -.013 1994< -.010 1929> -.009 Higher 1932 .059 1980 .026

1950 to 1979 segment:

Lower 1978< -.150 1950< -.055 1968> -.046 1957> -.024 1951< -.016 1956> -.015 Higher 1962 .180 1964 .048

1977 to 2006 segment:

Lower 1978< -.199 1994< -.036 2003> -.017 1989> -.017 1987< -.010 1983> -.010 Higher 1980 .188 1985 .055

[D] 4 Absent rings: Year Master N series Absent

1999 .364 20 2 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

23B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1909 171

1910 206 316 189 212 249 268 191 149 230 206

1920 250 262 209 172 261 305 251 241 216 198

1930 239 244 107 166 222 201 130 141 170 113

1940 103 95 110 137 84 81 117 134 56 71

1950 75 91 100 125 154 133 104 92 87 85

1960 92 85 51 108 80 85 89 94 102 117

1970 105 20 56 91 120 80 29 49 19 40

1980 19 20 54 53 53 17 37 23 25 40

1990 17 19 14 17 9 19 24 18 8 0

2000 3 18 12 16 0 0 0

====================================================================================================================================

24a 1913 to 2006 94 years Series 7

[B] Entire series, effect on correlation ( .629) is:

Lower 1966< -.021 1936> -.015 1933> -.015 1968> -.014 1975< -.013 1922< -.010 Higher 1980 .027 1932 .027

[D] 7 Absent rings: Year Master N series Absent

1962 -2.067 20 1

1990 -.566 20 2

1994 .492 20 2 >> WARNING: Ring is not usually narrow

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

24a Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1913 166 233 206 171 188 201 153

1920 241 205 125 124 214 220 152 221 164 140

1930 145 161 74 165 131 100 83 180 160 64

1940 35 14 50 92 79 21 82 89 51 82

1950 109 85 130 88 89 103 72 29 18 50

1960 11 37 0 27 13 42 13 63 53 70

1970 48 34 39 43 48 18 26 49 48 30

1980 7 14 20 36 43 15 23 39 44 20

1990 0 4 6 6 0 26 29 16 19 41

2000 51 68 40 0 0 0 0

====================================================================================================================================

24b 1912 to 2006 95 years Series 8

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1965 1994 10 .04 .20 -.09 .02 -.23 -.06 .14 -.19 .04 -.05 .40|-.02 -.17 -.60 .04 .41 .20 -.28 -.07 .02 .47\*

[B] Entire series, effect on correlation ( .719) is:

Lower 1975< -.036 1980> -.016 1968> -.016 1961> -.011 1966< -.010 1991< -.007 Higher 1932 .037 1936 .019

1965 to 1994 segment:

Lower 1975< -.134 1968> -.050 1966< -.038 1991< -.023 1994< -.019 1976> -.013 Higher 1978 .048 1984 .033

[D] 8 Absent rings: Year Master N series Absent

1991 .002 20 1 >> WARNING: Ring is not usually narrow

1992 -.336 20 1 >> WARNING: Ring is not usually narrow

1993 -.431 20 2

1995 .291 20 1 >> WARNING: Ring is not usually narrow

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

24b Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1912 110 201 316 295 217 189 229 186

1920 322 228 158 182 296 248 199 218 194 117

1930 127 138 45 94 156 123 42 70 81 73

1940 59 30 37 80 53 16 55 72 37 75

1950 98 66 101 72 52 59 45 16 14 40

1960 15 74 6 91 28 67 29 66 66 63

1970 49 39 38 50 57 15 48 64 112 59

1980 31 22 59 26 68 26 28 32 30 16

1990 8 0 0 0 3 0 6 6 14 44

2000 117 90 41 0 0 0 0

====================================================================================================================================

25A 1909 to 2006 98 years Series 9

[B] Entire series, effect on correlation ( .492) is:

Lower 1999< -.037 1909< -.035 1996< -.020 1985> -.013 1936> -.009 1981> -.007 Higher 1945 .016 1964 .015

[D] 11 Absent rings: Year Master N series Absent

1972 -.581 20 2

1990 -.566 20 2

1996 .254 20 1 >> WARNING: Ring is not usually narrow

1999 .364 20 2 >> WARNING: Ring is not usually narrow

2000 .357 20 3 >> WARNING: Ring is not usually narrow

2001 .234 20 2 >> WARNING: Ring is not usually narrow

2002 -.084 20 3 >> WARNING: Ring is not usually narrow

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

25A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1909 45

1910 139 196 151 230 193 242 148 171 203 192

1920 253 228 189 183 282 280 234 289 204 158

1930 171 150 137 138 180 211 160 191 166 153

1940 117 73 149 158 97 54 72 92 108 96

1950 108 164 164 118 156 106 108 29 35 81

1960 104 80 55 136 51 98 126 113 59 45

1970 28 13 0 17 39 34 18 58 77 66

1980 12 8 27 27 35 28 14 20 30 16

1990 0 5 8 8 10 7 0 6 8 0

2000 0 0 0 0 0 0 0

====================================================================================================================================

25B 1916 to 2006 91 years Series 10

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1965 1994 -1 .10 -.01 .18 -.26 -.16 -.04 -.02 -.24 -.36 .40\* .37| .14 -.15 .21 .23 .10 -.15 .01 .13 .28 -.11

1977 2006 -1 .12 .16 .12 -.22 .00 .07 -.04 -.17 -.34 .41\* .30| - - - - - - - - - -

[B] Entire series, effect on correlation ( .424) is:

Lower 1945> -.049 1985> -.034 1952< -.020 1968> -.013 1992> -.011 1984< -.010 Higher 1980 .041 1981 .018

1965 to 1994 segment:

Lower 1985> -.131 1984< -.045 1968> -.045 1992> -.040 1977< -.029 1983> -.019 Higher 1980 .240 1981 .096

1977 to 2006 segment:

Lower 1985> -.156 1992> -.050 1984< -.033 1983> -.024 2001< -.023 1993> -.023 Higher 1980 .308 1981 .118

[D] 6 Absent rings: Year Master N series Absent

2001 .234 20 2 >> WARNING: Ring is not usually narrow

2002 -.084 20 3 >> WARNING: Ring is not usually narrow

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 2 3.0 SD above or -4.5 SD below mean for year

1941 -5.4 SD; 1945 +3.3 SD

25B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1916 219 188 230 200

1920 303 248 242 216 267 335 225 263 188 195

1930 168 157 144 124 168 221 156 211 212 178

1940 122 59 124 158 109 162 139 131 144 151

1950 147 186 120 125 123 121 133 62 106 135

1960 112 82 52 103 46 67 103 144 118 110

1970 104 75 34 33 45 58 26 26 28 29

1980 6 3 13 30 15 29 16 18 12 8

1990 4 9 23 21 26 17 4 8 6 20

2000 15 0 0 0 0 0 0

====================================================================================================================================

26A 1913 to 2006 94 years Series 11

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1977 2006 -9 .09 .43\*-.05 -.18 -.02 .03 .15 -.27 .10 .21 .42| - - - - - - - - - -

[B] Entire series, effect on correlation ( .649) is:

Lower 1989< -.026 2000< -.022 1933> -.014 2006< -.014 1913< -.012 1982< -.011 Higher 1936 .024 1945 .017

1977 to 2006 segment:

Lower 1989< -.056 2000< -.053 2006< -.039 1982< -.029 1979> -.027 1977< -.016 Higher 1981 .124 1980 .097

[D] 1 Absent rings: Year Master N series Absent

2000 .357 20 3 >> WARNING: Ring is not usually narrow

26A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1913 128 161 181 145 160 213 202

1920 306 301 279 210 289 300 243 266 261 160

1930 194 250 151 256 269 318 115 162 201 192

1940 161 107 107 186 141 76 104 124 103 142

1950 180 198 232 188 163 180 154 120 80 107

1960 82 73 63 122 76 84 107 107 86 113

1970 114 103 60 88 101 144 114 82 153 147

1980 53 15 29 56 75 49 78 60 86 26

1990 32 53 33 43 55 27 20 25 22 20

2000 0 48 24 53 45 33 5

====================================================================================================================================

26B 1908 to 2006 99 years Series 12

[B] Entire series, effect on correlation ( .583) is:

Lower 1968< -.038 1909> -.020 1947< -.013 2005< -.013 1987< -.010 1976> -.009 Higher 1932 .025 1936 .013

[D] 1 Absent rings: Year Master N series Absent

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1968 -5.8 SD

26B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1908 73 190

1910 130 177 148 141 162 177 128 142 153 163

1920 246 192 180 152 230 231 170 190 120 107

1930 133 165 96 127 181 201 98 129 124 150

1940 116 93 81 137 123 82 89 74 86 125

1950 136 152 159 123 140 167 107 93 104 143

1960 114 122 73 112 75 79 107 103 15 132

1970 140 126 95 97 55 53 112 111 136 61

1980 10 11 33 64 57 22 28 18 23 38

1990 30 29 28 36 48 39 32 53 25 10

2000 51 34 12 11 20 8 0

====================================================================================================================================

27A 1913 to 2006 94 years Series 13

[B] Entire series, effect on correlation ( .707) is:

Lower 1999< -.023 1941> -.021 1993< -.018 1914< -.010 1936> -.009 1957> -.009 Higher 1932 .040 1980 .018

[D] 4 Absent rings: Year Master N series Absent

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

27A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1913 136 129 223 191 175 175 109

1920 167 174 124 111 143 126 113 118 81 43

1930 50 78 40 44 68 77 57 74 72 64

1940 75 76 83 123 79 33 43 64 73 72

1950 116 87 64 63 76 99 95 76 42 68

1960 64 43 27 88 50 71 92 168 88 72

1970 83 69 58 76 83 81 68 72 86 60

1980 34 38 51 48 77 45 39 39 37 37

1990 22 26 13 2 24 28 18 33 40 2

2000 1 1 2 0 0 0 0

====================================================================================================================================

27B 1910 to 2006 97 years Series 14

[B] Entire series, effect on correlation ( .625) is:

Lower 1961< -.022 1916> -.014 1935< -.013 1980> -.012 1957> -.011 2002> -.011 Higher 1932 .036 1936 .022

[D] 1 Absent rings: Year Master N series Absent

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1962 -5.9 SD

27B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1910 85 173 122 154 134 231 242 204 237 143

1920 230 149 87 94 155 157 134 124 105 59

1930 54 79 31 34 66 52 27 65 58 53

1940 63 57 81 94 68 53 39 74 64 81

1950 119 106 84 58 70 84 59 72 50 73

1960 53 28 14 77 71 86 76 93 76 83

1970 103 80 71 79 99 90 67 139 124 93

1980 65 55 71 58 72 34 38 58 65 40

1990 25 28 19 14 41 31 25 29 17 3

2000 15 8 30 21 16 19 0

====================================================================================================================================

28A 1911 to 2006 96 years Series 15

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1950 1979 0 .16 -.04 .09 .01 .00 -.35 -.03 -.10 -.24 -.29 .34\* .04 -.12 -.11 .31 -.01 .30 .01 .04 -.22 .10

[B] Entire series, effect on correlation ( .522) is:

Lower 1972< -.037 1956< -.034 1962> -.012 1960> -.012 1985> -.011 1954< -.010 Higher 1932 .018 1919 .015

1950 to 1979 segment:

Lower 1962> -.040 1960> -.038 1964> -.026 1954< -.019 1967< -.018 1971> -.012 Higher 1963 .037 1968 .024

[D] 8 Absent rings: Year Master N series Absent

1956 .018 20 1 >> WARNING: Ring is not usually narrow

1972 -.581 20 2

1993 -.431 20 2

1994 .492 20 2 >> WARNING: Ring is not usually narrow

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 2 3.0 SD above or -4.5 SD below mean for year

1956 -5.2 SD; 1972 -5.1 SD

28A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1911 232 163 199 226 226 158 168 157 110

1920 177 165 115 117 146 143 134 155 112 54

1930 95 82 40 57 114 171 73 74 72 58

1940 92 39 17 170 43 32 72 48 51 94

1950 125 103 78 108 51 75 0 43 57 94

1960 99 77 64 119 73 90 115 56 28 49

1970 40 46 0 21 23 22 21 45 54 30

1980 16 12 34 36 89 59 55 80 94 60

1990 43 39 28 0 0 32 68 40 55 81

2000 68 14 10 0 0 0 0

====================================================================================================================================

28B 1915 to 2006 92 years Series 16

[A] Segment High -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10

--------- ---- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

1950 1979 0 .19 -.06 .07 .17 -.07 -.33 .06 -.24 -.18 -.06 .34\*-.01 .04 .11 -.05 -.06 -.25 .22 .00 .02 .00

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

1977 2006 0 .28 -.08 -.06 -.17 .07 -.07 -.28 -.20 -.06 .05 .41\* - - - - - - - - - -

[B] Entire series, effect on correlation ( .424) is:

Lower 1955< -.114 1937< -.026 2001< -.015 1985> -.014 1960> -.013 1978< -.013 Higher 1919 .025 1924 .019

1950 to 1979 segment:

Lower 1955< -.246 1960> -.037 1978< -.028 1964> -.019 1956> -.018 1969< -.016 Higher 1968 .070 1957 .047

1977 to 2006 segment:

Lower 2001< -.062 1985> -.061 1978< -.056 1991< -.044 1990> -.016 2003< -.012 Higher 1980 .089 1981 .046

[C] Year-to-year changes diverging by over 4.0 std deviations:

1955 1956 4.1 SD

[D] 7 Absent rings: Year Master N series Absent

1937 .527 20 1 >> WARNING: Ring is not usually narrow

1955 1.162 20 1 >> WARNING: Ring is not usually narrow

2002 -.084 20 3 >> WARNING: Ring is not usually narrow

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1955 -5.7 SD

28B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1915 214 147 140 170 93

1920 144 149 128 107 210 171 135 145 96 58

1930 102 83 40 58 142 144 48 0 126 129

1940 75 14 44 169 69 49 48 39 50 122

1950 146 142 76 133 125 0 112 44 67 103

1960 120 107 78 104 83 91 120 106 29 41

1970 44 27 32 24 51 67 59 90 43 51

1980 27 29 93 44 125 84 58 91 106 66

1990 65 34 41 38 64 45 69 55 54 34

2000 41 6 0 0 0 0 0

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29A 1907 to 2006 100 years Series 17

[B] Entire series, effect on correlation ( .644) is:

Lower 1908> -.017 1987< -.014 1985> -.013 1998< -.011 1957> -.011 1943< -.011 Higher 1907 .036 1980 .020

[D] 4 Absent rings: Year Master N series Absent

2003 .026 20 8 >> WARNING: Ring is not usually narrow

2004 .010 20 10 >> WARNING: Ring is not usually narrow

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1981 -4.9 SD

29A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1907 89 235 228

1910 212 304 223 225 259 226 160 226 233 152

1920 205 193 183 164 193 140 160 130 106 94

1930 123 93 48 84 150 141 55 131 127 101

1940 96 48 53 67 44 24 99 129 94 117

1950 108 151 194 150 121 103 99 121 86 88

1960 75 98 63 123 67 89 115 121 79 128

1970 125 69 69 59 68 64 40 61 63 51

1980 28 16 45 71 48 40 45 26 27 41

1990 33 51 36 28 31 30 20 36 13 11

2000 21 48 19 0 0 0 0

====================================================================================================================================

29B 1907 to 2006 100 years Series 18

[B] Entire series, effect on correlation ( .610) is:

Lower 2000< -.033 1994< -.022 1908> -.020 1920< -.015 1912> -.011 1929> -.009 Higher 1980 .024 1932 .017

[D] 1 Absent rings: Year Master N series Absent

2000 .357 20 3 >> WARNING: Ring is not usually narrow

29B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1907 78 223 251

1910 177 242 224 252 323 299 168 106 106 106

1920 106 151 86 146 231 163 153 145 85 113

1930 150 137 71 93 136 142 71 108 126 100

1940 109 84 103 146 92 35 97 114 116 179

1950 170 146 178 162 149 133 113 91 99 117

1960 95 99 65 132 55 94 92 177 130 123

1970 134 127 123 127 115 125 119 117 152 113

1980 48 34 62 69 68 30 61 51 45 58

1990 43 39 34 12 6 23 20 31 26 31

2000 0 20 11 29 35 28 9

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30A 1911 to 2006 96 years Series 19

[B] Entire series, effect on correlation ( .585) is:

Lower 1962> -.025 2001< -.015 1941> -.013 1986< -.011 1981> -.009 1980> -.009 Higher 1936 .032 1919 .015

[D] 2 Absent rings: Year Master N series Absent

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

30A Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1911 244 206 176 182 281 229 212 188 112

1920 161 154 129 105 165 173 137 126 121 51

1930 61 66 25 21 68 97 10 115 97 63

1940 34 53 70 99 95 49 54 59 66 46

1950 53 134 136 86 78 90 38 1 37 76

1960 22 50 77 87 69 84 90 141 115 155

1970 119 97 99 79 103 112 94 143 139 74

1980 64 66 76 56 91 45 35 51 54 60

1990 39 50 39 45 52 44 50 45 46 30

2000 16 6 10 5 5 0 0

====================================================================================================================================

30B 1911 to 2006 96 years Series 20

[B] Entire series, effect on correlation ( .654) is:

Lower 2005< -.025 1962> -.018 1948> -.010 1981> -.009 1964> -.009 1960< -.008 Higher 1932 .041 1945 .015

[D] 2 Absent rings: Year Master N series Absent

2005 .817 20 13 >> WARNING: Ring is not usually narrow

2006 .373 20 16 >> WARNING: Ring is not usually narrow

>> WARNING: Last ring in series is ABSENT

[E] Outliers 1 3.0 SD above or -4.5 SD below mean for year

1957 -4.7 SD

30B Ring measurements

Annual values

Date 0 1 2 3 4 5 6 7 8 9

1911 286 210 242 258 330 237 216 184 126

1920 188 148 143 134 151 148 128 116 122 45

1930 81 73 20 29 64 102 39 78 106 90

1940 63 31 54 93 72 15 27 73 86 75

1950 74 66 68 62 73 71 36 4 36 74

1960 25 30 58 77 66 69 101 155 94 114

1970 89 56 46 75 85 82 77 116 110 62

1980 48 61 108 73 98 49 58 53 102 60

1990 52 52 51 56 55 42 58 57 108 45

2000 14 25 8 14 21 0 0

====================================================================================================================================

PART 7: DESCRIPTIVE STATISTICS: Mount Hunger-Waterbury-High Corr3(again) 16:02 Wed 07 Mar 2007 Page 6

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Corr //-------- Unfiltered --------\\ //---- Filtered -----\\

No. No. No. with Mean Max Std Auto Mean Max Std Auto AR

Seq Series Interval Years Segmt Flags Master msmt msmt dev corr sens value dev corr ()

--- -------- --------- ----- ----- ----- ------ ----- ----- ----- ----- ----- ----- ----- ----- --

1 21A 1911 2006 96 6 0 .530 .86 2.70 .605 .826 .432 2.58 .448 .005 1

2 21B 1908 2006 99 6 1 .512 .86 2.37 .575 .752 .415 2.54 .399 -.024 1

3 22A 1914 2006 93 6 2 .486 1.17 3.58 .796 .785 .356 2.69 .524 .073 1

4 22B 1911 2006 96 6 1 .543 1.20 3.42 .917 .842 .396 2.58 .453 .069 1

5 23A 1908 2006 99 6 0 .681 .89 2.94 .747 .882 .407 2.59 .414 -.016 2

6 23B 1909 2006 98 6 2 .541 1.08 3.16 .829 .889 .375 2.61 .490 -.104 2

7 24a 1913 2006 94 6 0 .629 .75 2.41 .666 .846 .559 2.62 .585 -.002 1

8 24b 1912 2006 95 6 1 .719 .80 3.22 .784 .843 .563 2.74 .463 -.058 1

9 25A 1909 2006 98 6 0 .492 .96 2.89 .810 .892 .445 2.76 .552 -.040 2

10 25B 1916 2006 91 6 2 .424 1.02 3.35 .845 .913 .352 2.56 .419 .010 1

11 26A 1913 2006 94 6 1 .649 1.26 3.18 .809 .843 .355 2.55 .466 -.021 1

12 26B 1908 2006 99 6 0 .583 1.01 2.46 .587 .787 .356 2.56 .409 -.031 2

13 27A 1913 2006 94 6 0 .707 .70 2.23 .466 .828 .336 2.84 .468 .045 2

14 27B 1910 2006 97 6 0 .625 .77 2.42 .521 .818 .366 2.69 .426 .095 1

15 28A 1911 2006 96 6 1 .522 .76 2.32 .558 .749 .488 2.72 .443 .006 1

16 28B 1915 2006 92 6 2 .424 .79 2.14 .499 .557 .481 2.60 .430 -.032 1

17 29A 1907 2006 100 6 0 .644 .98 3.04 .679 .853 .329 2.53 .430 .057 2

18 29B 1907 2006 100 6 0 .610 1.07 3.23 .645 .804 .348 2.56 .474 .012 1

19 30A 1911 2006 96 6 0 .585 .85 2.81 .575 .822 .381 2.68 .507 -.016 1

20 30B 1911 2006 96 6 0 .654 .85 3.30 .623 .850 .398 2.83 .560 -.010 2

--- -------- --------- ----- ----- ----- ------ ----- ----- ----- ----- ----- ----- ----- ----- --

Total or mean: 1923 120 13 .579 .93 3.58 .677 .820 .406 2.84 .468 .001

- = [ COFECHA MHW\_HCOF ] = -