# A Dendrochronology Study of Select Timbers from the Hoffman House, Poughkeepsie, New York



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# <u>A Dendrochronology Study of Select Framing Members from the Hoffman House, Poughkeepsie, New York</u>

### Introduction

On March 13<sup>th</sup>, 2013, a selection timbers from the Hoffman house in Poughkeepsie, NY, were sampled by William Flynt for the purposes of conducting a dendrochronology study. The samples were prepped and analyzed at Historic Deerfield by William Flynt, Architectural Conservator.

### Background

Dendrochronology, or the study of tree ring growth patterns to date the age of archeological timbers, was initially developed in the 1920's by Andrew E. Douglass using long-lived Ponderosa pines in the Southwest United States. An astronomer by training, Douglass was interested in historical sun spot activity and its relationship to earth's climate. He surmised that by looking at yearly growth ring sequences in long-lived trees growing in an arid environment where moisture is key, he might be able to ascertain yearly variations in climate attributable to sunspot activity. (Baillie, 1982). To push the tree ring database back past the age of living trees, samples were taken from roof poles in Pueblo ruins which turned out to eventually overlap the living tree data. Besides fulfilling his research needs, this work revealed the feasibility of dating archeological structures.

In the 1980's the advent of computer programs to collate the data and compile master chronologies enabled unknown samples to be compared to known masters with a high degree of accuracy. Pioneering work in Eastern Massachusetts focusing on Oak (Krusic and Cook 2001, Miles, Worthington and Grady 2002, 2003, 2005) and in the Connecticut River valley initially concentrating on Pitch pine (Flynt 2004) and expanding into oak, chestnut, hemlock, and white pine has revealed the suitability of using dendrochronology as a mainstream research tool for analyzing and establishing construction timber felling dates in the Northeast, a region heretofore considered too variable climatically to provide reliable results.

To aid with this specific study, dated site and regional master chronologies are available including an Eastern New York State white pine chronology(Griggs), a hemlock chronology encompassing NY, MA, VT (Cook, Baisan, Flynt), several pitch pine chronologies for western MA and eastern NY(Cook, Flynt), and several oak chronologies for eastern NY (Cook, Krusic).

It should be remembered that trees were usually felled in the winter months with frame preparation occurring shortly thereafter, so the earliest a frame could be raised would be in the year following the felling date delineated in a dendrochronology study such as this.

### **Procedures**

In procuring samples suitable for dendrochronology research, the analyst must be on the lookout for timbers, framing, and boards that exhibit several parameters. First, a bark, or waney, edge must be present if one wishes to establish with certainty the last year of

growth. Second, there needs to be a sufficient number of rings in a sample to span several distinctive climactic variations that register as patterns of wide and narrow rings. Ideally, having 100 years of growth is best, but more often than not, samples will range from 60 to 100+ years. While it is feasible to get dates on young samples, spurious results are possible and thus must be reviewed carefully both with longer-lived samples from the same structure as well as with what documentary and stylistic research uncovers. Third, enough samples need to be obtained (10-15 per building episode is usually reasonable) to allow for comparison and the fact that often some will not date for one reason or another. It is also critical that an assessment be made of the building frame to ascertain that the members from which samples are extracted were not reused or inserted at a later date, or, if so, are duly noted. Fourth, all samples must be labeled and entered into a log book that notes the position of each sampled timber within the structure, its species, whether or not it has wane, and any other information pertinent to the sample. In labeling the samples the following code was employed; PH (Poughkeepsie, Hoffman)) with the numbers that follow simply referring to the sequence in which the samples were taken.

Samples were taken using a custom coring bit, chucked into an 18 volt ½" Bosch batterypowered drill that creates a 9/16" hole out of which is obtained a 3/8" core. Core samples were glued into custom wood mounts and sanded using successively finer grit paper (80-600 grit) both on a bench top belt sander and by hand sanding to create a mirror-smooth finish. All samples were then viewed under a Unitron ZST 7.5-45X binocular microscope fitted with cross hairs in one eyepiece to ascertain and mark the number of rings per sample. This was followed by a visual review of all samples from the structures to determine if site-specific growth patterns could be picked out. Each sample was then placed under the microscope on a Velmex Acu-Rite Encoder sliding stage calibrated to read to the nearest micron (.001mm). Measuring begins at the outer, or last year of growth (measure) ring (LYOM), established as 1000, and proceeds to the center of the sample or first year of measure (FYOM). At the junction of each growth ring, the analyst registers the interface electronically which sends the measurement to the computer via a Quick-Chek Digital Readout. In all of the work in this study, the measuring program PJK10v10e was used to compile each structure's raw data files. The program transforms the ring widths into a series of indices that relate each ring's growth to its neighbors, thus standardizing the climate-related influences on a year to year basis (Krusic 2001). Thus trees from a similar location but growing at different rates should exhibit similar indices. With the raw data in hand, using the program COFECHA, samples from each site can be compared with each other to determine if all were cut more or less at the same time or within the span of several years or more. The samples are also compared against one or more dated regional master chronologies of the same species to determine the exact year or years when the samples in question were felled. As strong samples are uncovered, these are added to a fledgling site master and the raw data is again run against the site master to see if additional samples align.

With COFECHA samples are broken down into ring groups of 50 years which are compared to various dated masters. The 50-year groupings in an individual sample are lagged a certain number of years (for this study a lag of 10 years was used for the most part) to provide an overlap of data within the groupings. The results are displayed in a series of ways with Part 8 "Date Adjustment for Best Fit Matches for Counted Unknown

Series" composed of columns with the "best fit" being in column #1, the next "best fit" in column #2 and so on out 10 columns. The "add" number is the number to be added to the last year of growth (1000) to provide the year date of felling, while the "corr" number relates to how well the "add" meshes with the master. A correlation coefficient of .3281 is considered the threshold of significance. High correlation values (preferably over .40) accompanying consistent "add" numbers in the first column usually reveal reliable results. In the example below, consistent "add" numbers with strong correlations appearing in the first column for samples DLBH-07 and 08 reveal each samples true date of felling (1784 and 1782 respectively). Sample DLBH-09 does not show consistently strong correlation with any particular date. Note that the lag used in this example is 10 years.

	COUNTED	CORR									
SERIES	SEGMENT	ADD # 1	ADD # 2	ADD # 3	ADD ₹ 4	ADD # 5	ADD # 6	ADD # 7	ADD # 8	ADD # 9	ADD #10
						=======		*******			
DLBH-07	937- 986	784 .51	712 .47	729 .37	713 .37	847 .33	846 .31	728 .30	813 .29	800 .29	763 .28
DLBH-07	947- 996	784 .54	712 .45	760 .33	816 .31	729 .31	800 .29	713 .29	671 .29	847 .26	808 .25
DLBH-07	951-1000	784 .41	760 .35	712 .35	661 .31	787 .30	800 .29	774 .29	729 .27	808 .26	832 .25
DLBH-08	929- 978	782 .44	746 .42	793 .33	760 .32	705 .32	840 .31	858 .30	689 .30	824 .28	685 .26
DLBH-08	939- 988	782 .61	746 .37	689 .34	840 .30	725 .29	708 .27	723 .27	806 .27	684 .25	724 .25
DLBH-08	949- 998	782 .69	669 .47	840 .41	722 .32	896 .28	708 .27	700 .26	683 .25	723 .25	720 .24
DLBH-08	951-1000	782 .69	669 .38	840 .38	722 .34	757 .29	700 .28	730 .25	659 .24	838 .23	723 .23
DLBH-09	932- 981	713 .52	785 .35	848 .35	744 .35	729 .32	863 .31	846 .28	849 .26	693 .26	714 .25
DLBH-09	942- 991	846 .38	713 .36	785 .33	848 .33	729 .29	727 .29	790 .29	693 .28	761 .28	765 .27
DLBH-09	951-1000	799 .43	783 .39	731 .30	689 .30	808 .29	767 .27	756 .26	790 .25	814 .24	846 .24

Once samples from a site are firmly dated and grouped into a site species master, Part 2 "Correlations with Master Series of all Segments as Dated and Measured" and Part 3 "Segments Correlating Low, or Higher, at other than Dated Position" of COFECHA can be viewed to see how well each sample correlates with the others in the group and where weak areas within the ring counts are located.

### **Results** (See Figure 1)

Of the 14 samples extracted, seven were pitch pine, one was oak, one appeared to be poplar, three were hemlock, and two were white pine. See Appendix A for sample locations on floorplans.

### Pitch pine

All the pitch pine came from either the main floor joists or the second floor ceiling joists. In comparing the samples against themselves it was possible to create an undated alignment of the samples that revealed a majority of the timbers were felled within a very short period of time (Chart 1). Sample PH-05 however, appears to have been felled 17 years prior to the others and most likely was stored in some protected area. The samples were next compared to several Massachusetts pitch pine masters, one from the Connecticut River Valley and one from southern Berkshire County (Chart 2). Both reveal suggestions of possible dates that coincide with the age differences revealed in Chart 1 with sample PH-04 showing the strongest alignment, with decent correlation coefficients, to a specific date of 1788. Samples PH-05, PH-07, and PH-08 reveal less strong relationships with specific dates but nonetheless do offer glimpses of realistic dates in relation to PH-04. An email to Edward Cook at the Lamont-Doherty Tree-Ring Laboratory in a search for a geographically closer, dated pitch pine master, resulted in his sending an Albany area pitch pine master his lab compiled over the years. The Hoffman

house samples were compared to this master (Chart 3) revealing a very strong relationship of sample PH-04 to 1788, good strength for PH-05 likely dating to 1771, and suggestions of PH-01 wanting to date to 1786 in its first 69 years of growth, PH-07 likely aligning with 1788, and PH-08 possibly having been felled in 1787. The Hoffman house samples were then assigned actual dates based on the data from these Charts to create a pitch pine site master against which the samples were tested. Chart 4 reveals, not unexpectedly, that the samples align with each other but now with true dates. These dated samples were then inserted into the Albany area pitch pine master and continued to hold up well revealing that they are correctly dated.

### Oak

The lone sample of oak, from a first floor ceiling joist, was tested against a variety of regional oak masters (Chart 5). Somewhat surprisingly, the samples appear to want to date to 1711 when compared against most chronologies. Only when compared to the small Hillsdale, NY site master (11 samples) does a later date show up (1748), but even here, it has no clear date relationship to the numerous pitch pine samples within this same portion of the house. It could very well be reused or the results could be spurious. Without additional oak samples it is difficult to ascertain the validity of this result.

### White pine

Two of the third floor addition timbers were white pine and when these were compared to the eastern white pine master compiled by Carol Griggs at Cornell University's Tree-Ring Laboratory, the samples aligned convincingly with 1832 (PH-10) and 1834 (PH-11). Chart 6 reveals how well the data aligns. When these samples are assigned dates and added to the eastern New York state white pine master, they mesh well with the other samples.

### Hemlock

The three hemlock samples also came from the third floor addition. When compared against the very large regional hemlock master covering portions of three states (NY, MA, VT), the results are conclusive and back up what the white pine revealed. PH-12 and PH-14 align with 1834 while PH-13 aligns with 1831 (Chart 7).

### Conclusion

The pitch pine results from the main body of the house point to a period of tree felling during the late summer and into the winter of 1788 in preparation for the house construction, which could have occurred no earlier than 1789. It appears a few pieces of framing were felled prior to this with one coming down two years earlier and the other many years previous, which was likely in storage and still available at the time this house went up. The lone oak sample seemingly wants to date to the early years of the 18<sup>th</sup> century and could possibly be reused, or the results could be spurious. As noted above, if additional suitable samples of oak could have been located this might have been clarified. It would be worth inspecting this timber more carefully in an attempt to determine if it is reused.

The lone sample of what appears to be poplar could not be analyzed as no dated master chronologies are available for this species.

It would have been helpful to have obtained additional samples from the third floor addition, but thankfully the five samples cored did provide solid dates in the early 1830's. The felling of at least some of the framing for this addition occurred no later than the winter of 1834 suggesting the earliest the roof modifications could have been carried out was during the 1835 construction season.

### Acknowledgments

The author would like to thank Eric Gradioa of the architectural firm Mesick, Cohen, Wilson, Baker Architects for supplying documentation concerning the property and help during the day of sampling. Thanks are also in order to Mike Duffy and The Dyson Foundation for being open to the idea of a dendrochronology study as a way to further understand the evolution of the building. Finally, thanks go to Edward Cook, director of Columbia University's Lamont-Doherty Tree-Ring Laboratory for generously supplying the Albany area pitch pine master chronology.

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# FIGURE 1

# HOFFMAN HOUSE, POUGHKEEPSIE, NY

LOCATION	1ST JOIST WEST OF EAST SILL	2ND JOIST WEST OF EAST SILL	3RD JOIST WEST OF EAST SILL	4TH JOIST WEST OF EAST SILL	6TH JOIST WEST OF EAST SILL	SW PARLOR CEILING JOIST ABOVE FIREPLACE	2ND FL, S.MID. RM, 4TH CEILING JOIST FR.W.WALL	2ND FL, S.MID. RM, 5TH CEILING JOIST FR. W. WALL	3RD FL, STUD ON S.SIDE OF SE WINDOW	3RD FL, EAST PLATE	3RD FL, NW ROOM, NE CORNERPOST	3RD FL, SE ROOM, NW CORNER, N. WALL STUD	3RD FL, N. WALL STUD SEVERAL W.OF PH-13
SPECIES	PIRI	PIRI	PIRI	PIRI	PIRI	QUAL	PIRI	PIRI	PIST	PIST	TCSA	TCSA	TCSA
WANE	×	×	×	×	×	×	×	×	×	Ħ	þ	×	Þ
DATE	1786	1788	1788	1788	1771	1711	1788	1787*	1832*	1834	1834	1831	1834
LYOG	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
FYOG	803	943	949	919	933	803	944	918	850	912	863	870	883
AGE	86	28	52	82	89	86	57	83	151	80	138	131	118
SAMPLE	PH-01	PH-02	PH-03	PH-04	PH-05	PH-06	PH-07	PH-08	PH-10	PH-11	PH-12	PH-13	PH-14

FYOM = FIRST YEAR OF GROWTH (AS MEASURED)
LYOM = LAST YEAR OF GROWTH
PIRI = PITCH PINE
QUAL = OAK

PIST = WHITE PINE

TCSA = HEMLOCK \*= PARTIAL LAST RING AT WANE, NOT MEASURED. TREES FELLED FOLLOWING SPRING/SUMMER (1788,1833)

CHART 1 PART 2: CORRELATIONS WITH MASTER SERIES OF ALL SEGMENTS AS DATED AND MEASURED Tucson-Mendoza-Hamburg-Lamont ProgLib 32-YEAR CUBIC SPLINE FILTER; CORRELATIONS OF 50-YEAR SEGMENTS LAGGED 10 YEARS FLAGS: \_A = CORRELATION UNDER 0.3281; \_B = CORRELATION HIGHER AT OTHER POSITION 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 FLAGS/ 949 959 969 979 989 999 1009 1019 1029 1039 1049 1059 1069 1079 1089 1099 1109 1119 1129 1139 TOTAL OSEQ SERIES INTERVAL 1 PH-01 916- 998 = .27 .29 .40 .33 .34 = 2/ 5 2 PH-02 943-1000 .56 .58 .60 0/ 3 3 PH-03 950-1000 .63 .65 0/ 2 4 PH-04 919-1000 .60 .59 .57 .49 .48 .51 0/ 6 5 PH-05 916-983 .64 .65 .61 .65 = 0/ 4 6 PH-07 944-1000 = .63 .59 .61 0/ 3 7 PH-08 917- 999 .25 .39 .48 .37 .34 = \_\_\_B 1/5 PART 3: SEGMENTS CORRELATING LOW, OR HIGHER AT OTHER THAN DATED POSITION Tucson-Mendoza-Hamburg-Lamont ProgLib CORRELATIONS OF 50-YEAR SEGMENTS FROM TEN YEARS EARLIER (-10) TO TEN YEARS LATER (+10) THAN DATED SERTES SEGMENT HIGH -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +0 +1 +2 +3 +4 +5 +6 \_\_\_\_\_\_\_ PH-01 916- 965 -.28 -.20 .00 -.09 -.03 -.10 -.02 .03 .24 -.18 .27 .01 -.28 .03 -.32 -.25 .17 -.09 -.04 .28 .02 9 -----PH-01 920- 969 -.18 -.17 -.07 -.18 -.01 -.01 -.01 -.14 -.01 .13 -.13 .29 -.09 -.22 .01 -.35 -.23 .19 -.12 -.14 -.17 -.01 <\_> PH-08 917- 966 .32 .16 .19 .00 -.02 .00 -.16 -.12 -.21 -.03 .25 .01 .08 .10 -.18 .18 -.03 -.17 -.10 -.13 -.32 PART 8: DATE ADJUSTMENT FOR BEST MATCHES FOR COUNTED OR UNKNOWN SERIES Tucson-Mendoza-Hamburg-Lamont ProgLib PH-PP VS PH-PP ALIGNED 50-YEAR SEGMENTS LAGGED 10 YEARS COUNTED CORR CORR CORR CORR CORR CORR CORR CORR SERIES ADD #1 ADD #2 ADD #3 ADD #4 ADD #5 ADD #6 ADD #7 ADD #8 ADD #9 ADD #10 ADD #11 SEGMENT PH-01 903- 952 11 .16 23 .15 37 .15 -2 .61 PH-01 913- 962 -4 .39 35 .32 27 .25 7 .24 9 .24 10 .21 33 .18 26 .17 36 .16 17 .12 26 .30 PH-01 923- 972 -2 .54 -2 .60 10 .28 27 .26 13 .20 4 .19 9 .19 7 .17 -19 .17 11 .14 -4 .11 PH-01 933- 982 -30 .31 4 .27 11 .23 -14 .16 -28 .22 13 .20 10 .20 -8 .19 7 .17 1 .16 PH-01 943- 992 -2 .54 -8 .28 -28 .27 -30 .24 4 .23 -22 .21 1 .20 -36 .18 7 .17 -14 .14 -15.14-49 .19 PH-01 951-1000 -2 .55 -8 .27 -36 .24 -28 .20 -15 .18 -37 .16 -30 .14 -38 .14 -17 .13 -22 .11 PH-02 943- 992 0 .71 6 .17 -40 .16 -3.29-31 .27 -13.20-29 .19 -6 .19 8 .18 -26 .18 PH-02 951-1000 -3 .29 0 .73 -6 .29 -41 .27 -32 .24 -29 .22 -37 .20 -1 .15 -14 .12 -13 .10 -31 .09 PH-03 949- 998 0 .75 -29 .46 -28 .28 -26 .24 -37 .23 -40 .20 -3 .18 -16 .16 -45 .14 -34 .13 PH-03 951-1000 0 .77 -29 .48 -28 .28 -26 .23 -37 .21 -40 .19 -3 .18 -16 .16 -6 .12 -34 .12 -45 .11 PH-04 919-968 0 .74 29 .34 2 .20 -16.303 .29 15 .25 -14 .24 32 .20 12 .19 31 .15 -13 .13 929- 978 PH-04 0 .70 -25 .30 15 .30 3 .25 6 .22 -10 .17 -26 .17 16 .17 -24 .16 -12 .15 -11 .15 PH-04 939- 988 0 .63 -31 .34 -12 .28 3 .27 6 .26 -26 .20 -29 .14 -18 .18 -6 .14 -24 .13 -37.13PH-04 949- 998 0 .63 -41 .34 -47 .27 -12 .23 -26 .19 -37 .18 -9 .16 -29 .16 -39 .15 -31 .15 -6 .15 951-1000 0 65 PH-04 -41 .30 -47 .27 -12 .26 -26 .21 -29 .20 -6 .20 -9 .17 -24 .16 -32 .15 -37 .15 PH-05 933- 982 -17 .80 9 .35 -30 .20 -6 .17 -25 .14 -32 .14 -3 .13 -20.13-18 .13 -15 .12 14 .12 PH-05 943- 992 -17 .78 -20 .31 -33 .23 -28 .16 -4 .20 -25 .16 -32 .13 -7 .11 6 .12 -14.10-19 .08 PH-05 951-1000 -17 .79 -20 .27 -48 .27 -4 .26 -25 .19 -44 .18 -43 .14 -35 .12 -33 .11 -46 .09 -14 .10 PH-07 944- 993 0 .74

-12 .23

-26 .25

-11 .23

21 .23

-32 .35

-28 .27

-49 .27

0 .72

-1 .54

-1 .64

-1 .59

-1.55

-1 .53

PH-07

PH-08

PH-08

PH-08

PH-08

PH-08

951-1000

918- 967

928- 977

938- 987

948- 997

951-1000

-28 .21

-41 .23

21 .19

17 .21

-36 .23

-41 .26

-28 .25

6 .21

-29 .23

30 .18

-9 .16

-30 .16

-30.24

-30 .25

-6 .18

-28 .22

14 .16

-14 .14

-28 .15

-36 .21

-41 .22

-41 .17

-12 .21

33 .15

-18 .13

13 .14

-49 .20

-2 .19

-26 .16

-37 .18

17 .15

12 .13

-14 .13

-36 .19

-2 .19

-29 .15

-45 .15

15 .13

-12 .11

-12 .13

-32 .18

-32 .17

-13 .14

-6 .14

4 .13

23 .10

-9 .12

-10 .17

-10 .16

-31 .12

-13 .13

-9 .13

1 .10

-10 .11

-14 .11

-40 .16

-43 .12

1 .13

16 .09

-42 .11

-43 .11

PH-PP VS CRVM PP MASTER SUMMARY TO 1848 50-YEAR SEGMENTS LAGGED 10 YEARS

	COUNTED	CORR										
SERIES	SEGMENT	ADD # 1	ADD # 2	ADD # 3	ADD # 4	ADD # 5	ADD # 6	ADD # 7	ADD # 8	ADD # 9	ADD #10	ADD #11
PH-01	903- 952	803 .40	643 .38	850 .37	618 .35	848 .34	828 .31	852 .31	761 .30	777 .30	668 .30	723 .29
PH-01	913- 962	604 .44	850 .37	786 .35	643 .34	668 .31	615 .31	881 .30	872 .30	683 .29	761 .29	779 .28
PH-01	923- 972	872 .44	615 .42	789 .37	643 .32	777 .31	604 .29	683 .29	633 .28	635 .26	616 .26	719 .25
PH-01	933- 982	789 .36	615 .34	719 .32	828 .32	635 .31	777 .31	698 .28	633 .26	676 .26	860 .26	795 .25
PH-01	943- 992	601 .38	789 .36	786 .33	598 .30	808 .30	615 .29	691 .29	719 .29	578 .26	676 .26	834 .26
PH-01	951-1000	786 .36	601 .34	808 .32	676 .31	615 .30	598 .29	691 .28	834 .26	789 .25	689 .25	621 .25
PH-02	943 - 992	843 .38	687 .35	788 .32	833 .32	812 .27	667 .27	597 .27	628 .27	603 .27	714 .26	824 .25
PH-02	951-1000	687 .47	788 .46	699 .37	603 .36	751 .33	833 .32	812 .31	824 .31	605 .29	606 .29	623 .26
PH-03	949- 998	751 .35	608 .33	753 .32	606 .28	625 .28	589 .27	846 .26	775 .26	712 .26	580 .25	764 .25
PH-03	951-1000	608 .36	751 .35	753 .33	846 .29	606 .28	580 .26	817 .26	764 .25	641 .25	658 .24	712 .24
PH-04	919- 968	608 .33	794 .32	637 .31	595 .30	782 .30	788 .29	819 .28	606 .28	874 .28	854 .26	803 .25
PH-04	929- 978	788 .38	825 .33	794 .31	606 .31	803 .31	741 .30	740 .28	779 .27	730 .26	782 .26	813 .26
PH-04	939- 988	788 .46	825 .45	741 .33	591 .31	859 .28	779 .28	803 .28	631 .26	766 .25	813 .25	849 .24
PH-04	949- 998	788 .49	741 .43	825 .35	833 .33	714 .31	571 .26	756 .26	646 .25	606 .25	568 .24	699 .24
PH-04	951-1000	788 .48	741 .36	756 .33	833 .32	694 .29	646 .29	825 .28	740 .27	839 .27	606 .26	767 .24
PH-05	933- 982	723 .38	591 .37	820 .32	652 .31	797 .31	655 .30	611 .29	865 .28	749 .28	612 .27	592 .27
PH-05	943- 992	771 .37	589 .35	572 .34	749 .34	611 .31	639 .30	591 .29	723 .29	820 .28	652 .28	829 .28
PH-05	951-1000	771 .41	820 .36	589 .35	634 .35	842 .35	829 .33	572 .33	749 .31	723 .30	611 .29	808 .28
PH-07	944- 993	687 .42	611 .34	788 .33	752 .32	609 .31	628 .31	630 .29	751 .28	589 .26	825 .25	659 .25
PH-07	951-1000	687 .36	751 .34	630 .30	846 .29	722 .29	788 .28	776 .27	753 .27	817 .26	659 .26	740 .25
PH-08	918- 967	714 .39	671 .36	636 .34	672 .31	727 .31	659 .29	765 .29	651 .28	679 .28	692 .27	787 .27
PH-08	928- 977	787 .53	824 .34	845 .32	836 .32	740 .31	657 .31	692 .30	739 .30	699 .30	834 .28	621 .28
PH-08	938- 987	787 .46	835 .35	689 .35	765 .34	621 .34	824 .33	657 .32	716 .31	624 .28	729 .27	814 .27
PH-08	948- 997	787 .38	814 .35	765 .34	752 .32	716 .32	826 .30	689 .29	657 .29	621 .28	835 .28	725 .27
PH-08	951-1000	716 .35	814 .35	787 .34	689 .33	566 .31	752 .29	624 .29	765 .28	835 .28	826 .28	639 .27

PART 8: DATE ADJUSTMENT FOR BEST MATCHES FOR COUNTED OR UNKNOWN SERIES

Tucson-Mendoza-Hamburg-Lamont ProgLib

PH PP VS SOUTHERN BERKSHIRE COUNTY PP MASTER 50-YEAR SEGMENTS LAGGED 10 YEARS

	COUNTED	CORR	CORR	CORR	CORR	CORR						
SERIES	SEGMENT	ADD # 1	ADD # 2	ADD # 3	ADD # 4	ADD # 5	ADD # 6	ADD # 7	ADD # 8	ADD # 9	ADD #10	ADD #11
PH-01	903- 952	811 .43	848 .37	735 .33	766 .30	778 .29	763 .28	753 .27	777 .27	708 .27	823 .26	792 .26
PH-01	913- 962	792 .37	766 .35	811 .35	846 .34	848 .30	706 .30	683 .27	733 .27	779 .26	735 .26	750 .25
PH-01	923- 972	811 .37	731 .33	683 .32	764 .31	706 .31	766 .29	792 .29	846 .29	810 .28	809 .27	744 .27
PH-01	933- 982	676 .34	664 .33	731 .33	682 .32	797 .32	850 .30	706 .29	725 .28	848 .26	656 .26	766 .25
PH-01	943- 992	797 .36	731 .35	676 .33	764 .31	664 .30	682 .27	706 .26	760 .26	716 .25	738 .24	820 .22
PH-01	951-1000	764 .34	797 .32	691 .30	820 .30	676 .30	810 .29	749 .27	716 .27	703 .27	731 .26	682 .25
PH-02	943- 992	726 .39	671 .37	819 .34	837 .28	714 .26	771 .25	757 .24	780 .24	798 .24	705 .22	843 .21
PH-02	951-1000	726 .38	751 .37	671 .34	817 .32	714 .31	782 .31	819 .26	705 .26	739 .25	771 .23	699 .22
PH-03	949- 998	785 .39	811 .38	726 .32	671 .28	757 .28	705 .28	801 .27	822 .27	740 .26	759 .26	823 .25
PH-03	951-1000	811 .39	785 .35	671 .30	726 .30	705 .29	749 .28	822 .27	759 .27	823 .26	757 .25	739 .25
PH-64	919- 968	755 .39	769 .34	840 .33	803 .31	788 .31	686 .30	851 .29	721 .28	678 .27	757 .26	825 .25
PH-04	929- 978	686 .45	788 .44	660 .42	840 .32	728 .30	730 .29	661 .28	727 .26	813 .26	755 .25	720 .24
PH-04	939- 988	788 .44	825 .42	686 .39	742 .32	799 .31	696 .31	660 .31	708 .29	847 .29	772 .24	730 .24
PH-04	949- 998	772 .38	788 .38	686 .37	799 .34	825 .32	741 .25	751 .25	687 .23	705 .23	714 .22	801 .21
PH-04	951-1000	788 .42	686 .40	772 .33	705 .27	681 .22	663 .22	825 .22	751 .21	811 .21	646 .21	728 .21
DU OF	022 002	725 42	677 26	C00 2C	701 24	777 25	705 21	COF 20	700 20	016 20	702 20	726 25
PH-05	933- 982	735 .42	677 .36	680 .36	781 .34	723 .31	795 .31	695 .30	768 .29	816 .28	703 .26	736 .25
PH-05 PH-05	943- 992	735 .39	768 .38	701 .35	784 .35	781 .32	654 .30	723 .29	680 .29	737 .28	658 .27	806 .26
	951-1000	701 .50	784 .43	768 .39	735 .38	737 .35	654 .32	771 .30	723 .29	653 .27	803 .27	658 .23
PH-07	944- 993	788 .40	672 .33	823 .30	740 .29	680 .29	726 .27	801 .25	753 .24	727 .23	699 .23	784 .22
PH-07	951-1000	672 .31	788 .31	692 .31	823 .30	680 .29	753 .28	654 .26	837 .24	740 .24	801 .24	726 .23
PH-08	918- 967	771 .35	850 .34	782 .32	864 .30	802 .30	787 .30	714 20	720 20	727 .27	784 .27	772 .27
PH-08	928- 977	787 .52	666 .46	739 .40	800 .37	773 .34	850 .31	714 .29 714 .26	739 .29 858 .26	726 .25	770 .24	692 .23
PH-08	938- 987	787 .48	739 .36	716 .35	800 .34	770 .32	818 .29	773 .28	706 .27	799 .27	666 .26	797 .26
PH-08	948- 997	644 .39	770 .38	799 .35	810 .34	752 .33	739 .31	643 .31	800 .30	670 .28	666 .27	818 .27
PH-08	951-1000	810 .35	770 .35	716 .32	644 .31	666 .29	799 .28	752 .27	739 .27	643 .27	800 .26	773 .26
111-00	331-1000	010 .33	110 .33	710 .32	044 .31	000 .29	799 .28	132 .21	135 .21	043 .27	000 .20	773 .20

PH-PP VS ALBANY AREA PITCH PINE MASTER (LDEO) 50-YEAR SEGMENTS LAGGED 10 YEARS

SERIES	COUNTED	CORR ADD # 1	CORR ADD # 2	CORR ADD # 3	CORR ADD # 4	CORR ADD # 5	CORR ADD # 6	CORR ADD # 7	CORR ADD # 8	CORR ADD # 9	CORR ADD #10	CORR ADD #11
PH-01	903- 952	786 .51	615 .46	836 .41	668 .34	751 .34	723 .34	659 .33	776 .33	763 .28	811 .28	826 .28
PH-01	913- 962	786 .49	615 .48	678 .33	643 .30	617 .29	668 .28	723 .27	613 .27	659 .27	751 .26	616 .26
PH-01 PH-01	923- 972 933- 982	786 .44 676 .42	676 .38	617 .36	615 .34	587 .31	678 .30	568 .30	792 .29	777 .29	789 .28	751 .28
PH-01	943- 992	760 .42	786 .33	777 .33	789 .32 554 .31	587 .31	792 .31	617 .31	719 .30	810 .30	704 .27	661 .24
PH-01	951-1000	553 .44	553 .36 760 .44	676 .35 676 .32	587 .31	617 .30 789 .29	789 .29 554 .28	771 .28 617 .27	792 .28 661 .27	777 .27 663 .26	786 .26 624 .26	587 .26 689 .26
							337 120					
PH-02	943 - 992	576 .56	577 .38	539 .38	785 .35	649 .35	650 .33	712 .31	669 .31	788 .29	747 .27	691 .27
PH-02	951-1000	576 .63	539 .44	650 .41	577 .40	747 .38	782 .37	699 .35	712 .32	649 .31	788 .30	785 .30
PH-03	949- 998	759 .45	712 .38	751 .34	580 .34	607 .33	788 .29	686 .28	650 .28	539 .27	577 .27	672 .26
PH-03	951-1000	759 .47	607 .36	751 .34	580 .34	712 .33	650 .30	686 .29	788 .27	711 .26	577 .26	785 .25
PH-04	919- 968	788 .54	592 .49	608 .42	741 .41	609 .35	757 .33	700 .32	691 .31	782 .30	753 .30	690 .29
PH-04	929- 978	788 .66	592 .39	741 .37	714 .32	608 .32	568 .32	606 .32	660 .31	690 .31	791 .30	700 .29
PH-04	939- 988	788 .65	741 .44	675 .36	610 .34	613 .33	623 .32	791 .29	620 .29	592 .29	773 .29	799 .27
PH-04	949- 998	788 .61	741 .52	764 .38	714 .36	747 .35	782 .35	613 .31	791 .31	675 .30	551 .30	610 .29
PH-04	951-1000	788 .52	741 .47	782 .37	747 .32	791 .32	764 .31	714 .31	613 .28	676 .28	610 .27	651 .26
PH-05	933- 982	723 .49	771 .44	695 .37	722 .37	591 .36	573 .35	697 .32	559 .29	782 .29	794 .27	674 .27
PH-05	943- 992	771 .48	768 .39	695 .37	723 .33	722 .33	589 .33	784 .33	765 .32	781 .32	591 .31	674 .29
PH-05	951-1000	771 .46	768 .39	722 .39	674 .37	784 .35	765 .32	591 .32	723 .32	695 .31	551 .27	559 .26
PH-07	944- 993	712 45	700 10	F20 20	CEO 27	700 25	564 33	702 21	F70 21	C07 30	726 27	705 27
PH-07	951-1000	712 .45 650 .47	788 .40 539 .44	539 .39 788 .41	650 .37 712 .35	700 .35 580 .33	564 .32 613 .30	782 .31 700 .30	578 .31 578 .30	687 .30 564 .29	726 .27 687 .29	785 .27 672 .29
rn-0/	331-1000	030 .47	339 .44	700 .41	712 .33	300 .33	013 .30	700 .50	376 .30	304 .29	007 .29	672 .29
PH-08	918- 967	798 .47	623 .38	739 .32	818 .31	783 .29	705 .27	756 .27	605 .27	661 .26	633 .26	772 .25
PH-08	928- 977	787 .40	739 .38	699 .35	707 .34	798 .31	597 .30	662 .27	640 .26	629 .26	690 .26	559 .25
PH-08	938- 987	787 .49	729 .40	739 .36	738 .34	707 .33	619 .32	752 .31	650 .31	629 .29	621 .27	640 .26
PH-08	948- 997	621 .38	739 .36	787 .36	729 .33	752 .32	789 .31	619 .28	707 .28	685 .28	576 .28	725 .27
PH-08	951-1000	621 .36	729 .34	787 .34	739 .33	752 .29	789 .28	707 .28	619 .28	689 .27	630 .26	758 .26

	32-YEAR CU	IBIC SPLII							EAR SEGM			10 YE	ARS								
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5 PH-0			=	.64	.66	.63	.66	=	= =	=											0/
6 PH-0			=	-	=	-	.63	.61	= =	-											0/
7 PH-(	08 1705-1	787 =	=	.25 E	.44 3	.42	.36	.34		=											1/
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1-08	1705-1754 PART 8: DA	-10 <	_>						612 - ED OR UN			25 .(			son-M	endoze	а-Наг	burg-	Lamon	nt Pro	ogLil
		-10 < TE ADJUST -PP SITE MENTS LAG	MENT F	FOR BE	ST MA	TCHES	5 FOR	COUNT	ED OR UN	KNOWN S	SERIES	25 .(	CORR	Tuc	son-M	endozo	a-Han	burg-	-Lamon	nt Pro	cori
	PART 8: DA PH-PP VS PH SØ-YEAR SEG	-10 < TE ADJUST -PP SITE MENTS LAG	MENT F	FOR BE	ST MA	TCHES	5 FOR	COUNT	ED OR UN	KNOWN S	SERIES	25 .(	CORR	Tuc	son-M	endozo	a-Han	burg-	-Lamon	nt Pro	cori
RIES	PART 8: DA PH-PP VS PH 50-YEAR SEG COUNTED SEGMENT 903- 952	-10 < TE ADJUST -PP SITE MENTS LAC  CORF ADD # 1	MASTER GED 1	CORR # 2	ADD 823	CORR # 3	ADD 797	COUNT CORR # 4	COR ADD #	R S ADD	CORR # 6	ADD 821	CORR # 7	ADD 799	son-M CORR # 8	ADD 827	a-Hor	ADD 811	CORR #10	ADD 798	COR #1
RIES	PART 8: DA PH-PP VS PH 50-YEAR SEG COUNTED SEGMENT 903- 952 913- 962	-10 < TE ADJUST -PP SITE MENTS LAC  CORF ADD # 1  786 .71 786 .61	MASTER GED 1 ADD 826	CORR # 2	ADD 823 823	CORR # 3	ADD 797	COUNT CORR # 426 .25	COR ADD #	R 5 ADD - 2 795 5 797	CORR # 6	ADD 821	CORR # 7	ADD 799 821	corr # 8	ADD 827 814	a-Har	ADD 811	CORR #10	ADD 798	COR #1
-01 -01 -01 -01 -01	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .71 786 .63 786 .54 786 .54	MASTER GED 1  ADD 826 784 814 758	CORR # 2 5 .29 4 .38 4 .30 3 .31	ADD 823 823 798 792	CORR # 3	ADD 797 795 815 799	COUNT CORR # 4	COR ADD #  815 .2 815 .2 801 .2 760 .2	R S ADD = 2 795 797 0 792 2 801	CORR # 6	ADD 821 798 797 798	CORR # 7	799 821 769 780	CORR # 8	ADD 827 814 795 795	CORR # 9	ADD 8111 824 799 789	CORR #10	ADD 798	COR #1 5 .1 5 .1 4 .1 4 .1
-01 -01 -01 -01 -01 -01	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972	-10 < TE ADJUST -PP SITE MENTS LAC  CORRADD # 1  786 .71 786 .61 786 .54	MASTER GGED 1  ADD 826 784 814 9 758 786 786	CORR # 2 6 .29 1 .38 1 .30 3 .31 3 .28	ADD 823 823 798 792	CORR # 3 .28 .32 .29 .27 .27	ADD 797 795 815 799	COUNT CORR # 4 .26 .25 .26 .23	COR ADD #  815 .2 815 .2 801 .2	R 5 ADD 2 795 5 797 0 792 2 801 4 766	CORR # 6 .20 7 .24 2 .19 L .20 5 .21	ADD 821 798 797 798	CORR # 7 1 .17 3 .21 7 .19 3 .20 9 .20	ADD 799 821 769 780 752	CORR # 8	827 814 795 795 795	CORR # 9	ADD 8111 824 799 789 774	CORR #10	ADD 798 805 784 774 773	COR #1 5 .1 5 .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
RIES -01 -01 -01 -01 -01 -01 -01	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .71 786 .61 786 .54 786 .54 786 .55 786 .55	MENT F MASTER GED 1  ADD 826 784 814 758 786 786 786	CORR BE CORR # 2	823 823 798 792 760 752	CORR # 3	ADD 797 795 815 799 792 760	COUNT	COR UN  COR  ADD #  815 .2 815 .2 801 .2 760 .2 758 .2 779 .1	R S ADD = 2 795 797 0 792 2 801 4 766 8 773 0 782	CORR # 6 5 .20 1 .20 5 .21 3 .18	ADD 821 798 799 799 796 796 796 796 796 796 796 796	CORR # 7 3 .21 7 .19 3 .20 9 .20 1 .16	799 821 769 780 752 758	CORR # 8	827 814 795 795 750	.15 .17 .17 .17 .17 .14	ADD 811 824 799 789 774	CORR #10 .15 .16 .14 .14 .13 .16	ADD 798 805 784 7773 766 756	COR #1  3 .1 5 .1 1 .1 3 .1 5 .1 5 .1 5 .1
RIES010101010102	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORF ADD # 1  786 .54 786 .55 786 .55 788 .72 788 .73	MENT F MASTER GED 1  ADD  826 814 758 786 786 786 785	CORR # 2  6 .29  4 .38  3 .31  3 .28  5 .29	823 823 798 792 760 752	CORR # 3	797 795 815 799 792 760	COUNT  .26 .25 .26 .23 .24 .19 .20 .27	COR ADD # 815 .2 815 .2 801 .2 760 .2 758 .2 779 .1	R 5 ADD 2 795 797 792 2 8011 4 7668 773	CORR # 6 .20 1.20 1.20 1.20 1.20 2.19 2.19 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.2	ADD 821 798 797 798 755	CORR # 7	799 821 769 780 752 758 	.16 .18 .17 .19 .18 .14 .17 .15	827 814 795 795 750 794 774	CORR # 9 .15 .17 .17 .17 .14	ADD 8111 824 795 788 774 771	CORR #10  1 .15  4 .16  9 .14  1 .13  3 .16  5 .10	ADD 798 805 784 774 773 766 757	COR #1  3 .1 4 .1 4 .1 4 .1 5 .1 7 .1 7 .1
-01 -01 -01 -01 -01 -01 -02 -02	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .71 786 .63 786 .54 786 .55 788 .72 788 .72 788 .72	MENT F ADD 826 786 786 786 786 786 786 786 786 786 78	CORR BE CORR # 2	823 798 8792 760 752 757 760	CORR # 3	797 795 815 799 792 760 759 747	COUNT	COR UN  COR  ADD #  815 .2 815 .2 801 .2 760 .2 758 .2 779 .1	R 5 ADD 2 795 797 0 792 2 801 4 766 8 773 748 759 3 748	CORR # 6 5 .20 7 .24 2 .19 6 .21 3 .18	821 798 799 751 796 751	CORR # 7 3 .21 7 .19 3 .20 9 .20 1 .16	799 8211 769 752 758 762 787 772	CORR # 8	827 814 795 795 795 750 794 774	.15 .17 .17 .17 .17 .14 .17	ADD 8111 824 799 789 774 771	CORR #10  1.15  1.16  1.17  1.18  1.18  1.18  1.18  1.18  1.18  1.18	798 805 784 774 776 757 743	COR #1  3 .1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
-01 -01 -01 -01 -01 -01 -02 -02 -02	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT 903- 952 913- 962 923- 972 933- 982 943- 992 951-1000 943- 992 951-1000	-10 < TE ADJUST -PP SITE MENTS LAG  CORR ADD # 1  786 .71 786 .60 786 .54 786 .55 788 .72 788 .72 788 .73	MENT F MASTER 1 ADD 1 AD	CORR # 2  6 .29 4 .38 4 .30 3 .27 6 .30 9 .46	ADD 8233 798 792 760 757 782 760 760	CORR # 328322727252928	ADD 797 795 815 799 747 762 762 762	.26 .25 .26 .23 .24 .19 .27 .24 .23	COR ADD # 815 .2 815 .2 801 .2 769 .2 778 .2 778 .2 775 .2 756 .2	R 5 ADD 2 7955 7970 7922 801 4 7668 773	CORR # 6 6 .20 7 .24 1 .20 5 .21 3 .18	821 798 799 785 751 786 787 788	CORR # 7  1 .17 3 .21 7 .19 3 .20 9 .20 1 .16 5 .18 1 .20	799 821 769 780 752 758 762 787 772 772	.16 .18 .17 .19 .18 .14 .17 .15 .17	827 814 795 795 750 794 774	.15 .17 .17 .17 .17 .14 .15 .13	ADD 811 824 795 788 774 775 754 775 754 755 754 755 754 755 754 755 754 755 754 755 754 755 754 755 754 755 754 755 754 755 755	CORR #10	798 805 784 773 766 757 757 757	CORI #1  3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
RIES -01 -01 -01 -01 -01 -01 -02 -02 -03 -03 -04 -04	PART 8: DA PH-PP VS PH 50-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000  943- 992 951-1000  949- 998 951-1000  919- 968 929- 978	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .71 786 .61 786 .54 786 .55 788 .72 788 .72 788 .72 788 .72 788 .72 788 .72 788 .72	MENT I I MASTER GGD 1 ADD 1 826 826 814 9758 9759 9759 9759 9759 9759 9759 9759	CORR BE CORR # 2  5 .29 1 .38 4 .30 2 .27 5 .30 9 .46 9 .48 8 .30	823 823 798 792 757 760 760 760	CORR # 328 .32 .27 .27 .2527 .29 .28 .28 .30 .30	797 795 815 799 760 759 747 762 762	.26 .25 .24 .19 .27 .24 .23 .29 .25	COR ADD #  815 .2 815 .2 816 .2 760 .2 758 .2 758 .2 751 .2 751 .2 751 .2 794 .2	R 5 ADD 2 795 7970 7922 8014 7668 773 748 1 748 1 748 1 762 762 762 762	CORR # 6 5 .20 7 .24 .2 .19 1 .20 5 .21 3 .18 3 .19 3 .22	821 799 799 755 751 788 788 788	CORR # 7  1 .17 3 .21 7 .19 9 .20 1 .16 5 .18 6 .18 6 .18 0 .20 3 .17	799 821 769 780 752 758 762 772 772 772 820 804	.16 .17 .15 .20 .17	827 814 795 795 750 774 743 782	.15 .17 .17 .17 .17 .17 .14 .12 .15 .13	8111 824 799 774 771 	CORR #10  1 .15 4 .16 9 .14 1 .13 3 .16 5 .10 4 .13 4 .12	798 805 784 773 766 757 743	COR #1  3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
-01 -01 -01 -01 -01 -02 -02 -03 -0304 -04 -04	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 951-1000  943- 992 951-1000  949- 998 951-1000  919- 968 929- 978 939- 988	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .51 786 .52 786 .55 786 .55 788 .72 788 .73 788 .74 788 .65 788 .74 788 .65	MENT I I MASTER GED 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CORR BE # 2 CORR # 2 5 .29 4 .38 4 .30 3 .31 5 .29 9 .46 3 .30 9 .46 3 .30 9 .46 3 .30 9 .46 3 .30 9 .46 3 .30 9 .46	823 823 823 798 792 760 752 757 782 760 760	CORR # 3  .28  .29  .27  .25  .29  .28  .28  .29  .27  .25	797 795 815 799 792 760 759 747 762 762 762	.26 .25 .26 .23 .24 .19 .27 .27 .22 .23 .24 .23 .24 .23 .25 .27	COR ADD #  815 .2 815 .2 810 .2 760 .2 758 .2 756 .2 751 .2 751 .2 794 .2 794 .2	R 5 ADD 2 7955 7970 7922 4 7624 759 3 748 1 748 1 748 2 7626 762 6 762	CORR # 6 5 .20 7 .24 2 .19 1 .20 3 .18 3 .19 3 .19 4 .24 2 .17 2 .20	821 798 797 798 751 	CORR # 7 3 .21 7 .19 3 .20 9 .20 1 .16 5 .18 5 .18 6 .18 9 .20 9 .20 9 .20 1 .10	799 8211 769 780 752 758 762 787 772 772 820 834 759	.16 .18 .14	827 814 795 795 750 794 774 782 8090 764 782	.15 .17 .17 .14 .12 .15 .13 .15 .14 .15 .13 .15 .14	8111 824 799 774 775 756 757 776	CORR #10  1 .15  4 .16  9 .17  4 .14  1 .13  3 .16  5 .10  4 .13  4 .12  7 .15  4 .13	798 805 784 774 775 756 757 743	COR #1  3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
RIES  -01 -01 -01 -01 -01 -01 -01 -01 -01 -0	PART 8: DA PH-PP VS PH 50-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000  943- 992 951-1000  949- 998 951-1000  919- 968 929- 978	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .71 786 .61 786 .54 786 .55 788 .72 788 .72 788 .72 788 .72 788 .72 788 .72 788 .72	MENT I I MENT I ME	CORR BE CORR # 2  5 .29 1 .38 4 .30 2 .27 5 .30 9 .46 9 .48 8 .30	ADD 823 823 798 792 760 762 762 803 776 741	CORR # 328 .32 .27 .27 .2527 .29 .28 .28 .30 .30	797 795 815 799 760 762 762 791 791 791 791	.26 .25 .24 .19 .27 .24 .23 .29 .25	COR ADD #  815 .2 815 .2 816 .2 760 .2 758 .2 758 .2 751 .2 751 .2 751 .2 794 .2	R 5 ADD 2 7955 7970 7922 801 4 7668 7733 7488 1 748 1 774 2 7626 7626 7626 0 751	CORR # 6 5 .20 7 .24 .2 .19 1 .20 5 .21 3 .18 3 .19 3 .22	821 798 797 798 751 798 751 788 751 788 777 787 777 777	CORR # 7  1 .17 3 .21 7 .19 9 .20 1 .16 5 .18 6 .18 6 .18 0 .20 3 .17	799 821 769 780 752 772 772 772 820 824 759 779	.16 .17 .15 .20 .17	827 814 795 795 795 774 774 774 782 782 757	.15 .17 .17 .17 .17 .17 .14 .12 .15 .13	8111 824 799 774 775 	CORR #10  1 .15 4 .16 9 .14 1 .13 3 .16 5 .10 4 .13 4 .12	798 805 784 774 756 757 743 775 776 777 775 776 777	CORI #1  3 .11 3 .1. 4 .1. 4 .1. 5 .1. 7 .1. 3 .1. 5 .1. 1 .1. 1 .1.
RIES  -01 -01 -01 -01 -01 -01 -01 -02 -02 -03 -03 -04 -04 -04 -04 -04	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000  949- 998 951-1000  919- 968 929- 978 939- 988 949- 998 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .54 786 .54 786 .55 788 .72 788 .72 788 .73 788 .73 788 .74 788 .65 788 .65 788 .65 788 .66 788 .66	MENT I I MASTER GED 1	CORR BE (0 YEA) (0 YEA) (10 YE	823 823 798 760 752 760 760 772 803 776 741 741	.28 .32 .29 .27 .25 .29 .28 .28 .30 .30 .28 .27 .26 .27 .26 .27 .27 .25 .29 .28 .28 .27 .29 .29 .29 .29 .29 .29 .29 .29 .29 .29	797 795 815 799 792 760 759 747 762 762 791 791 776 776	.26 .25 .26 .23 .24 .19 .27 .23 .25 .27 .23 .25 .27 .23 .26 .27 .23 .26 .27 .27 .28 .29 .25 .27	COR ADD #  815 .2 815 .2 817 .2 817 .2 818 .2 818 .2 818 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .	R 5 ADD 2 7955 7970 7922 4 7666 8 773 7481 7482 7626 7626 7626 7626 7626 7626 7626 76	CORR # 6 5 .20 7 .24 2 .19 1 .20 5 .21 3 .18 3 .19 4 .24 1 .18 9 .21	821 799 785 755 785 785 776 777 777 777 777	CORR # 7 3 .21 7 .19 8 .20 9 .20 1 .16 5 .18 5 .18 5 .18 9 .17 9 .19 9 .20 1 .10 1 .20	799 821 769 752 758 762 787 772 772 820 834 759 779 779	.16 .18 .14 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .18 .18 .14 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	827 814 795 795 795 794 774 782 782 764 782	a-Hora	8111 824 779 789 774 775 819 776 754	CORR #10  1.15  4.16  3.16  3.16  4.13  4.12  4.13  4.13  5.16  5.10	798 805 784 774 756 757 743 775 776 751 775 775	CORR #1  3 .1: 5 .1: 4 .1: 3 .1: 7 .1: 7 .1: 1 .1: 1 .1: 1 .1: 1 .1: 1 .1: 1 .1:
RIES  -01 -01 -01 -01 -01 -01 -01 -01 -02 -02 -03 -03 -03 -04 -04 -04 -04 -04	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT 903- 952 913- 962 923- 972 933- 982 943- 992 951-1000 943- 992 951-1000 949- 998 951-1000 919- 968 929- 978 939- 988 949- 998 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORF ADD # 1  786 .71 786 .63 786 .54 786 .55 788 .72 788 .73 788 .73 788 .74 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65	MENT I I MASTER GED   MASTER GE	CORR BE # 2 CORR # 2 CORR # 2 CORR # 2 CORR # 38 3.11 CORR # 3.30	8233 798 752 760 752 8033 7766 741 741	.28 .32 .27 .27 .25 .28 .28 .30 .30 .30 .28 .27 .26 .19	797 795 815 799 792 760 759 747 762 762 791 791 776 776	.266 .25 .27 .29 .25 .27 .23 .26 .27 .21 .29 .25 .27 .21 .29 .25 .27 .23 .26 .27 .23 .26 .27 .27 .28 .29 .25 .27 .27 .28 .28 .29 .25 .27 .28 .28 .29 .25 .27 .28 .28 .28 .29 .25 .27 .28 .28 .29 .25 .27 .28 .28 .28 .29 .25 .27 .28 .28 .28 .29 .25 .27 .28 .28 .28 .29 .25 .27 .28 .28 .29 .28 .28 .29 .28 .28 .29 .28 .29 .28 .28 .29 .28 .28 .29 .28 .28 .29 .28 .29 .28 .28 .29 .28 .28 .29 .28 .28 .29 .28 .28 .29 .28 .28 .29 .28 .29 .28 .29 .28 .29 .28 .29 .28 .29 .28 .29 .28 .29 .28 .29 .29 .28 .29 .29 .29 .29 .29 .29 .29 .29 .29 .29	COR ADD # 815 .2 815 .2 801 .2 760 .2 758 .2 739 .1 775 .2 756 .2 751 .2 794 .2 762 .2 762 .2	R S ADD 2 7955 7970 7922 4 7593 1 748 1 748 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 759 1 75	CORR # 6 5 .20 6 .20 7 .24 2 .19 1 .20 5 .21 3 .18	821 798 799 799 751 787 787 787 787 787 787 787 787 787 78	CORR # 7	799 821 769 752 758 762 7772 7772 7779 779	CORR # 8  .16 .18 .17 .19 .18 .14 .17 .15 .16 .17 .16 .17 .15 .16 .17 .17 .18	827 814 795 795 750 794 774 743 782 757 764 773	.15 .17 .17 .17 .17 .14 .15 .13 .15 .14 .15 .16	8111 824 779 774 775 754 755 757 766 745 776	CORR #10  1.15 1.16 1.17 1.17 1.18 1.18 1.18 1.18 1.18 1.18	798 805 784 773 766 	CORI #1:  3 .1: 3 .1: 4 .1: 4 .1: 5 .1: 7 .1: 5 .1: 1 .1: 1 .1: 2 .1:
RIES  -01 -01 -01 -01 -01 -01 -02 -02 -03 -03 -04 -04 -04 -04 -04 -05 -05	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000  943- 992 951-1000  949- 998 951-1000  919- 968 929- 978 939- 988 949- 998 941- 998 943- 998	-10 < TE ADJUST -PP SITE MENTS LAC  CORF ADD # 1  786 .74 786 .54 786 .55 788 .77 788 .77 788 .77 788 .66 788 .67 788 .77 788 .66 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67	MENT I I MASTER GGED 1	CORR BE (0 YEA) (0 YEA) (10 YE	8233 798 792 769 769 769 769 769 772 803 776 741 741 758 755	.28 .32 .29 .27 .25 .29 .28 .28 .30 .30 .28 .27 .26 .27 .26 .28 .28 .27 .27 .25 .28 .28 .27 .29 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .27 .28 .28 .28 .28 .27 .28 .28 .28 .27 .28 .28 .28 .28 .28 .27 .28 .28 .28 .28 .28 .27 .28 .28 .28 .28 .28 .27 .28 .28 .28 .28 .28 .28 .28 .28 .28 .28	797 795 815 799 760 760 762 791 791 791 776 776 776 776 776	.26 .25 .26 .23 .24 .19 .27 .23 .25 .27 .23 .25 .27 .23 .26 .27 .23 .26 .27 .27 .28 .29 .25 .27	COR ADD #  815 .2 815 .2 817 .2 817 .2 818 .2 818 .2 818 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .	R 5 ADD 2 7955 7970 7922 8011 748 748 748 748 748 759 750 751 756 7760 7760 7760 7760 7760 7760 7760	CORR # 6 5 .20 7 .24 2 .19 1 .20 5 .21 3 .18 3 .19 4 .24 1 .18 9 .21	821 798 788 751 788 751 788 787 787 788 787 777 778 778	CORR # 7 3 .21 7 .19 8 .20 9 .20 1 .16 5 .18 5 .18 5 .18 9 .17 9 .19 9 .20 1 .10 1 .20	7999 8211 7699 7800 7522 7877 7722 8200 8844 7599 7799 7700 794	.16 .18 .14 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .18 .18 .14 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	827 814 795 795 750 794 774 773 782 800 764 782 757 764	a-Hora	ADD 8111 824 799 788 774 775 754 756 754 775 776 776 776 776 776 776 776 776 776	CORR #10  1.15  4.16  3.16  3.16  4.13  4.12  4.13  4.13  5.16  5.10	798 805 784 773 766 757 743 776 751 787 776 751 787 761	CORR #11  3 .11  5 .11  4 .10  7 .1  5 .11  1 .1  2 .1  1 .1
-01 -01 -01 -01 -01 -01 -02 -02 -03 -03 -04 -04 -04 -04 -05 -05 -05	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT 903- 952 913- 962 923- 972 933- 982 951-1000 943- 992 951-1000 949- 998 951-1000 919- 968 929- 978 939- 988 949- 998 951-1000 933- 982 943- 992 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORF ADD # 1  786 .71 786 .54 786 .55 788 .72 788 .73 788 .77 788 .78 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 771 .81 771 .78 771 .78	MENT I I MASTER GED 1	CORR # 2  CORR # 2  6 .29  4 .38  4 .30  5 .29 46  6 .30  7 .34  8 .30  7 .36  8 .32  8 .32	823 823 798 792 760 752 760 772 803 776 741 741 758 755 740	CORR # 3  .28 .32 .29 .27 .25 .25 .29 .28 .28 .27 .26 .29 .28 .28 .27 .26 .29 .23 .28	797 795 815 799 760 759 747 762 762 776 776 776 776 776 782 784 784	. 26 . 25 . 26 . 27 . 27 . 29 . 25 . 26 . 27 . 23 . 26 . 27 . 29 . 25 . 27 . 28 . 26 . 27 . 29 . 25 . 27 . 28 . 26 . 26 . 26 . 26 . 26 . 26 . 26	COR ADD #  815 .2 815 .2 815 .2 817 .2 817 .2 818 .2 818 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .2 819 .	R S ADD 2 7955 7970 7922 4 7596 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7626 7 7 7 7	CORR # 6 6 .20 7 .24 2 .19 6 .21 3 .18 3 .19 2 .20 1 .18 9 .22 .17 2 .20 1 .18 9 .21 .20 .16 6 .14 .19	821 799 785 755 786 777 776 774	CORR # 7  1 .17 3 .21 7 .19 9 .20 9 .20 1 .16 5 .18 1 .20	799 821 769 752 758 762 7772 7772 7779 7794 753	CORR # 8 .16 .18 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	827 814 795 795 750 774 774 782 757 764 773 781 753	200RR # 9	8111 824 799 774 775 754 776 776 776 777 776 777	CORR #10  1.15  1.16  1.17  1.18  1.18  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.	798 805 784 773 766 757 757 751 782 751	COR #1  3 .1 4 .1 4 .1 5 .1 5 .1 5 .1 5 .1 1 .1 1
RIES  -01 -01 -01 -01 -01 -01 -01 -01 -01 -0	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000  943- 992 951-1000  949- 998 951-1000  919- 968 929- 978 939- 988 949- 998 941- 998 943- 998	-10 < TE ADJUST -PP SITE MENTS LAC  CORF ADD # 1  786 .74 786 .54 786 .55 788 .77 788 .77 788 .77 788 .66 788 .67 788 .77 788 .66 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67 788 .67	MENT I I MASTER GGED 1	CORR # 2  CORR # 2  5 .29  4 .38  5 .29  4 .38  5 .29  6 .30  6 .30  7 .34  7 .34  7 .34  7 .34  7 .34  7 .34	ADD 823 823 798 792 760 760 771 741 741 758 755 740 760 760 760	CORR # 3  - 28 - 32 - 29 - 27 - 27 - 29 - 28 - 30 - 30 - 28 - 30 - 20 - 27 - 26 - 19 - 23	797 795 815 799 760 762 762 791 791 791 776 782 784 784	.26 .25 .24 .29 .27 .29 .25 .27 .23 .26 .27 .20	ED OR UN  COR  ADD #  815 .2 801 .2 769 .2 758 .2 759 .1 775 .2 751 .2 751 .2 794 .2 762 .2 762 .2 763 .1 763 .1	R 5 ADD 2 7955 7970 7922 4 7596 7626 7626 7626 7626 7626 7626 7626 76	CORR # 6 5 .20 7 .24 2 .19 1 .20 3 .18 3 .18 3 .19 3 .21 .21 .20 1 .18 3 .19 3 .19 5 .14 .24 .17 6 .16 6 .14 6 .16 6 .16 6 .14 6 .16 6 .16 6 .14 6 .16	821 799 788 751 788 752 788 753 774 776 766 766	CORR # 7  3 .21 7 .19 8 .20 9 .20 9 .20 9 .20 9 .20 9 .20 9 .20 9 .20 9 .20 9 .20 9 .20 9 .20 9 .20 1 .16	799 821 769 752 758 820 824 759 779 779 779 753 759	CORR # 8	827 814 795 795 750 794 774 774 782 757 764 773 781 775 775	.155 .14 .15 .16 .11 .11 .13 .13	ADD 8111 824 7999 788 774 775 754 775 775 775 775 775 775 775	CORR #10  1 .15 4 .16 9 .14 9 .17 7 .12 5 .13	798 805 784 773 766 757 757 776 751 782 751 782 751 744 745	CORI #1: 3 .1: 5 .1: 4 .1: 4 .1: 7 .1: 7 .1: 1 .1: 2 .1 1 .1: 2 .1 1 .1: 2 .0 2 .0
RIES  -01 -01 -01 -01 -01 -01 -02 -02 -03 -03 -04 -04 -04 -04 -04 -07 -05 -07	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT  903- 952 913- 962 923- 972 933- 982 943- 992 951-1000  949- 998 951-1000  919- 968 929- 978 939- 988 949- 998 951-1000  933- 982 943- 992 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .71 786 .61 786 .54 786 .55 788 .72 788 .73 788 .73 788 .74 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65 788 .65	MENT I I MASTER GED 1	CORR # 2  CORR # 2  6 .29  4 .38  4 .30  6 .29  6 .30  6 .30  7 .34  8 .30  7 .34  7 .34  8 .30  7 .34  8 .30  7 .34  8 .30  7 .34  8 .30  7 .34	823 823 798 760 752 760 772 803 776 741 741 758 760 759	CORR # 3  .28 # 3  .29 .27 .25  .27 .29  .28 .28 .27 .26  .19 .23 .28 .27 .26  .19 .23 .28 .28 .27 .26	797 795 815 799 792 760 759 747 762 776 776 776 776 782 784 784 784	.26 .25 .26 .23 .24 .19 .27 .27 .23 .26 .27 .23 .26 .27 .23 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .26 .27 .20 .27 .20 .26 .27 .20 .27 .20 .26 .27 .20 .27 .20 .27 .20 .26 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .27 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20	COR ADD #  815 .2 815 .2 815 .2 817 .2 760 .2 7750 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2 7751 .2	R 5 ADD 2 7955 7970 7922 8011 7580 7566 7620 751 756 7660 744 7666 7620 751 759 756 7660 744 759 747 759 756 756 756 756 756 756 756 756 756 756	CORR # 6 6 .20 7 .24 2 .19 6 .21 3 .18 3 .19 3 .22 .17 2 .20 1 .18 3 .19 .21 .5 .14 .24 4 .19 .21 .17 5 .20	821 799 799 785 755 786 777 766 756 756 757	CORR # 7	799 821 769 752 758 820 884 759 779 770 794 753 753 754 753 754 753 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 754 759 759 759 759 759 759 759 759 759 759	CORR # 8 .16 .18 .17 .19 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	827 814 795 795 750 774 774 782 757 764 773 781 775 775 775 775 775	.15 .17 .17 .14 .15 .15 .16 .15 .16 .11 .11 .11 .11 .11 .11 .11 .11 .11	ADD  8111 824 779 774 775 754 775 756 774 777 767 777 777	CORR #10  1.15 1.16 1.16 1.17 1.18 1.18 1.19 1.19 1.19 1.19 1.19 1.19	ADD  798 805 784 773 766 757 753 765 757 765 774 751 766 767 775 775 775 775 775 775 775 775	CORR #1:  3 .1: 4 .1: 3 .1: 5 .1: 4 .1: 3 .1: 5 .1: 1 .1: 2 .1 1 .1: 2 .1 1 .1: 5 .1: 5 .1: 5 .1: 6 .1: 7 .1: 7 .1: 7 .1: 8 .1: 8 .1: 8 .1: 9 .00
	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT 903- 952 913- 962 923- 972 933- 982 943- 992 951-1000 949- 998 951-1000 919- 968 929- 978 939- 988 949- 998 949- 998 951-1000 933- 982 943- 992 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORFA ADD # 1  786 .51 786 .55 786 .55 788 .72 788 .72 788 .73 788 .73 788 .74 788 .65 788 .65 771 .81 771 .75 788 .74	MENT I I MASTER GGED   MASTER	CORR BE # 2 CORR # 3 .31	8233 798 823 760 752 760 741 741 758 755 740 769 759 809	CORR # 3  - 28 - 32 - 29 - 27 - 27 - 29 - 28 - 30 - 30 - 28 - 30 - 28 - 30 - 30 - 28 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 30	797 795 815 799 792 760 759 762 762 791 776 776 782 784 784 784	COUNTING  CORR # 4  -26 -25 -26 -23 -24 -29 -27 -29 -25 -27 -23 -26 -17 -20 -26 -21 -23	ED OR UN  COR  ADD #  815 .2 801 .2 760 .2 758 .2 759 .1 775 .2 751 .2 751 .2 794 .2 762 .2 762 .2 763 .1 763 .1 763 .2	R S ADD 2 7955 7970 7922 4 7593 1 7484 7744 7744 7744 7744 7744 7744 77	CORR # 6 5 .20 7 .24 2 .19 8 .20 9 .22 1 .20 9 .22 1 .20 1 .20 1 .20 1 .21 2 .19 2 .19 3 .19 3 .19 4 .24 2 .17 4 .24 3 .16 4 .19 7 .17 5 .20	821 799 799 755 755 788 755 777 776 766 755 766 755 766 755 766 755	CORR # 7	799 821 769 752 758 762 777 777 779 7794 753 779 779 779 779 779 779 779 779 779 77	CORR # 8 .16 .18 .17 .19 .17 .16 .17 .16 .17 .16 .17 .15 .16 .17 .15 .16 .17 .15 .16 .17	827 814 795 795 750 774 774 773 782 775 775 775 7782	.155 .14 .15 .16 .11 .11 .13 .13	811 824 799 774 773 754 754 757 764 777 767 777 777 788 777 777 788 777 777	CORR #10  1.15 4.16 9.14 19.17 11.13 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15	798 805 784 773 766 757 757 757 775 775 776 775 775 775	CORR #1:  3 .19 5 .12 4 .11 4 .16 3 .1- 7 .11 5 .1- 1 .11 2 .1- 1 .11 2 .1- 1 .1- 2 .1- 4 .0-
I-01 I-01 I-01 I-01 I-01 I-01 I-01 I-02 I-02 I-03 I-03 I-04 I-04 I-04 I-04 I-07 I-07 I-07	PART 8: DA PH-PP VS PH S0-YEAR SEG COUNTED SEGMENT 903- 952 913- 962 923- 972 933- 982 943- 992 951-1000 949- 998 951-1000 949- 998 951-1000 949- 998 951-1000 949- 998 951-1000 949- 998 951-1000 949- 998 951-1000	-10 < TE ADJUST -PP SITE MENTS LAC  CORR ADD # 1  786 .71 786 .61 786 .54 786 .55 788 .72 788 .73 788 .74 788 .65 788 .65 788 .65 788 .67 788 .67 771 .81 771 .75 788 .74 788 .75	MENT I I MASTER GED 1	CORR BE 4 2 2 2 2 2 5 7 . 23	823 823 798 760 752 772 803 776 741 741 758 758 759 809 805 805	.28 .32 .29 .27 .25 .25 .29 .28 .29 .28 .27 .26 .28 .28 .27 .26 .23 .28 .28 .27 .21 .28	797 795 815 799 792 760 759 747 762 762 762 7791 7791 776 776 7791 7791 7791 7791 7	.266 .23 .24 .27 .29 .25 .27 .23 .26 .21 .23 .21 .23 .21 .23	COR ADD # 815 .2 815 .2 801 .2 760 .2 758 .2 758 .2 756 .2 751 .2 751 .2 762 .2 762 .2 763 .1 763 .1 763 .2 782 .1	R S ADD 2 7955 7970 7922 8011 7488 773	CORR # 6 6 .20 7 .24 2 .19 1 .20 0 .22 3 .19 3 .19 0 .22 17 .2 .20 1 .16 4 .19 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17	821 799 788 755 787 787 777 787 777 787 777 777	CORR # 7 7 19 3 .21 7 .19 3 .20 1 .16 5 .18 5 .18 5 .17 2 .19 3 .17 2 .19 3 .17 2 .19 3 .17 2 .19 1 .15 5 .14 1 .15	799 821 769 780 752 758 820 824 759 779 779 779 774 753 779 776 777 777 777 777 777 777 777 777	CORR # 8	827 814 795 795 750 774 774 782 757 764 782 757 764 782 757 764 782 757 764 782 757 764 764 775 764 775 775 775 775 775 775 775 776 776 776	.155 .17 .17 .14 .15 .15 .16 .15 .11 .11 .13 .13 .13	ADD  8111 824 799 786 774 775 819 777 764 775 817 777 764 777 77 77 77 77 77 77 77 77 77 77 77 7	CORR #10  1.15  1.16  1.17  1.18  1.18  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.19  1.	798 809 784 774 775 775 775 775 775 775 775 775 77	COR #1  3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1

											nburg-Lamor	
	PH-OAK VS 50-YEAR SE				RY							
SERIES	COUNTED SEGMENT	CORR ADD # 1		CORR ADD # 3					CORR ADD # 8	CORR ADD # 9	CORR ADD #10	CORR ADD #11
PH-06 PH-06 PH-06 PH-06	903- 952 923- 972 943- 992 951-1000	1014 .43 711 .64 711 .66	711 .42 748 .41 831 .38	990 .40 990 .38 898 .35	921 .37 906 .37 797 .31	824 .36 594 .33 931 .30	1011 .34 513 .33 513 .29	975 .32		682 .31 583 .30 769 .29 880 .27	990 .30 975 .30 685 .29 646 .27	835 .29 617 .30 821 .29 539 .26
	PART 8: DAT										ourg-Lamont	
	PH-0 VS NEV 50-YEAR SEC											
SERIES	COUNTED	CORR ADD # 1		CORR ADD # 3	CORR ADD # 4	CORR ADD # 5	CORR ADD # 6	CORR ADD # 7	CORR ADD # 8	CORR ADD # 9	CORR ADD #10	CORR ADD #11
PH-06 PH-06 PH-06	903- 952 923- 972 943- 992	711 .47 711 .45 711 .63	599 .32 685 .34		821 .33	623 .32	513 .30	684 .29 564 .29 660 .30	564 .29 765 .29 542 .30	637 .28 638 .28 769 .29	835 .28 617 .28 614 .28	737 .28 682 .26 594 .27
PH-06	951-1000	711 .62	623 .30	539 .29	599 .29	797 .28	685 .28	513 .28	763 .27	590 .25	570 .24	547 .24
	PART 8: DA	TE ADJUSTI	MENT FOR BE	ST MATCHES			WOWN SERIES				burg-Lamon	
	PH-0 VS SOU 50-YEAR SEG				STER	2						
ERIES	COUNTED SEGMENT	CORR ADD # 1	CORR ADD # 2	CORR ADD # 3	CORR ADD # 4	CORR ADD # 5	CORR ADD # 6	CORR ADD # 7	CORR ADD # 8	CORR ADD # 9	CORR ADD #10	CORR ADD #11
PH-06 PH-06 PH-06 PH-06	903- 952 923- 972 943- 992 951-1000	824 .49 711 .41 711 .35 657 .39		737 .41 824 .37 824 .31 711 .37	752 .38 752 .37 816 .30 813 .36	813 .35 683 .36 748 .30 699 .31	866 .29 737 .35 677 .29 824 .30	736 .26 866 .33 737 .27 816 .30	821 .26 848 .26 738 .25 783 .28	833 .25 846 .25 809 .25 772 .27	848 .25 753 .25 772 .25 748 .26	835 .25 736 .24 686 .24 804 .24
	PART 8: DA	TE ADJUSTI	MENT FOR BE	ST MATCHES	FOR COUNT	ED OR UNKN	NOWN SERIES	i	Tucson-M	lendoza-Ham	burg-Lamon	t ProgLib
	PH-0 VS HIL 50-YEAR SEG					х						
ERIES	COUNTED	CORR ADD # 1	CORR ADD # 2	CORR ADD # 3	CORR ADD # 4	CORR ADD # 5	CORR ADD # 6	CORR ADD # 7	CORR ADD # 8	CORR ADD # 9	CORR ADD #10	CORR ADD #11
H-06 H-06 H-06 H-06 H-06 H-06	903- 952 913- 962 923- 972 933- 982 943- 992 951-1000	835 .47 835 .39 748 .42 748 .41 748 .53 748 .38	824 .31 789 .34 765 .32 768 .39 783 .29 783 .24	789 .30 773 .30 773 .29 753 .32 735 .27 753 .23	765 .27 765 .26 753 .29 811 .29 773 .25 772 .23	790 .27 833 .24 783 .28 789 .26 732 .24 736 .22	833 .26 771 .23 824 .26 747 .25 724 .24 773 .21	773 .25 824 .22 789 .26 813 .24 772 .24 763 .20	832 .24 753 .21 811 .21 783 .22 781 .18 781 .20	811 .22 795 .20 813 .20 773 .20 768 .17 715 .19	814 .22 811 .19 763 .18 809 .20 736 .16 735 .17	808 .18 832 .19 786 .18 765 .19 792 .15 724 .17
	PART 8: DA	TE ADJUSTN	ENT FOR BE	st matches						endoza-Ham	burg-Lamon	t ProgLib
	PH-OAK VS CO 50-YEAR SEG											
ERIES	COUNTED SEGMENT	CORR ADD # 1	CORR ADD # 2	CORR ADD # 3	CORR ADD # 4	CORR ADD # 5	CORR ADD # 6	CORR ADD # 7	CORR ADD # 8	CORR ADD # 9	CORR ADD #10	CORR ADD #11
H-06 H-06	903- 952 923- 972 943- 992	835 .40 711 .48	711 .40 833 .39 725 .30	833 .39 871 .36	848 .33 848 .35	832 .31 692 .35	824 .30 835 .35	880 .28 714 .29	753 .26 857 .29	857 .25 824 .28	737 .24 716 .27	795 .23 810 .27

PH-WHITE PINE VS EASTERN NY WHITE PINE MASTER 50-YEAR SEGMENTS LAGGED 10 YEARS

	COUNTED	CORR										
SERIES	SEGMENT	ADD # 1	ADD # 2	ADD # 3	ADD # 4	ADD # 5	ADD # 6	ADD # 7	ADD # 8	ADD # 9	ADD #10	ADD #11
PH-10	850- 899	794 .50	758 .44	832 .44	718 .41	707 .39	736 .37	906 .32	907 .28	936 .26	873 .26	737 .26
PH-10	860- 909	907 .50	832 .44	685 .40	718 .38	809 .34	736 .33	919 .33	794 .33	873 .30	759 .30	758 .30
PH-10	870- 919	832 .57	809 .39	907 .37	794 .35	785 .34	718 .33	685 .33	736 .32	817 .30	713 .28	931 .28
PH-10	880- 929	832 .58	718 .37	907 .35	667 .33	817 .31	866 .30	736 .29	793 .29	885 .26	904 .26	798 .25
PH-10	890- 939	832 .60	798 .37	866 .36	889 .32	785 .31	817 .28	768 .27	811 .27	700 .26	847 .26	907 .26
PH-10	900- 949	832 .59	880 .35	646 .32	878 .31	768 .31	866 .30	808 .30	796 .29	643 .29	753 .28	798 .28
PH-10	910- 959	832 .54	768 .43	676 .35	753 .33	798 .30	646 .28	645 .28	866 .27	700 .27	738 .27	779 .26
PH-10	920- 969	832 .55	779 .31	811 .31	878 .30	768 .29	647 .28	764 .27	855 .27	783 .26	858 .26	834 .26
PH-10	930- 979	832 .42	647 .33	665 .31	779 .30	783 .29	764 .28	862 .27	843 .25	833 .25	781 .25	768 .24
PH-10	940- 989	832 .38	647 .33	851 .30	776 .30	718 .30	779 .30	862 .30	745 .29	644 .28	811 .27	857 .26
PH-10	950- 999	593 .39	779 .37	718 .35	758 .35	811 .33	625 .33	832 .32	598 .30	737 .29	776 .28	781 .28
PH-10	951-1000	758 .41	593 .40	737 .34	718 .34	625 .32	832 .31	779 .31	811 .31	851 .31	781 .30	644 .29
												742 26
PH-11	912- 961	834 .46	755 .41	656 .40	770 .39	822 .38	788 .35	869 .33	651 .28	675 .28	823 .26	743 .26
PH-11	922- 971	834 .54	770 .41	656 .37	804 .34	857 .34	686 .34	747 .30	823 .29	728 .29	623 .29	705 .28
PH-11	932- 981	834 .53	804 .33	668 .33	778 .31	857 .30	686 .30	616 .29	656 .29	747 .27	864 .27	725 .25
PH-11	942- 991	834 .39	747 .39	656 .33	666 .33	668 .32	833 .29	783 .27	739 .27	778 .26	754 .26	845 .26
PH-11	951-1000	834 .34	694 .33	720 .33	656 .33	783 .32	754 .32	747 .31	804 .30	630 .27	597 .26	833 .26

PART 8: DATE ADJUSTMENT FOR BEST MATCHES FOR COUNTED OR UNKNOWN SERIES Tucson-Wendoza-Hamburg-Lamont ProgLib

PH HEMLOCK VS COOK/BAISAN/FLYNTHEMLOCK MASTER 50-YEAR SEGMENTS LAGGED 25 YEARS

	COUNTED		CORR		CORR	9	CORR		CORR		CORR		CORR	,	CORR	9	CORR	3	CORR	3	CORR	9	CORR
SERIES	SEGMENT	ADD	# 1	ADD	# 2	ADD	# 3	ADD	# 4	ADD	# 5	ADD	# 6	ADD	# 7	ADD	# 8	ADD	# 9	ADD	#10	ADD	#11
DII 13	863- 912	024		coa	.40	750	.35	C29	.34	025	.33	CEO	.32	016	.32	000	.31	042	.31	629	.30	620	.30
PH-12 PH-12	888- 937	834	.65	100000	.45		.41		.39		.36		.36		.35	-	.34		.34		.33		.33
PH-12	913- 962		.77		.44		.43		.37		.36		.35	1003		77.77	.31		.31		.30		.30
PH-12	938- 987		.70		.39		.32		.30		.30	778			.29	1000			.28	911	.27	632	.26
PH-12	951-1000		.68		.39		.39		.39		.37	511	.37	600	.36	974	.36	555	.35	909	.33	702	.30
PH-13	870- 919	831	.57	639	.46	610	.41	690	.37	963	.35	699	.34	911	.33	752	.30	742	.30	1038	.29	940	.28
PH-13	895- 944	831	.54	965	.39	661	.35	713	.34	1038	.32	581	.31	802	.30	655	.29	840	.29	1054	.27	629	.26
PH-13	920- 969	831	.53	569	.41	629	.36	700	.35	798	.31	973	.29	969	.29	802	.29	713	.29	731	.28	722	.27
PH-13	945- 994	831	.65	569	.47	775	.45	805	.42	912	.35	609	.34	722	.34	696	.33	969	.31	876	.30	700	.30
PH-13	951-1000	831	.66	949	.41	508	.41	775	.40	696	.37	569	.35	608	.33	805	.33	549	.31		.31	996	.31
DU 44	002 022	024		754			27	1041				720		020	21	000	20		.30	1029	20	COA	.30
PH-14	883- 932		.64		.40	579		1041			.34		.32		.31		.30						
PH-14	908- 957		.72		.46		.37		.36		.32	908		1041			.30	10.000	.29		.29		.28
PH-14	933- 982	100000000000000000000000000000000000000	.73	1000000	.47		.41	15 (6)	.38	3202.53	.37	626			.35		.32		.30	2.50	.29	1000000	.29
PH-14	951-1000	834	.61	511	.52	879	.42	725	.42	647	.39	693	.38	575	.35	992	.34	626	.31	1002	.31	600	.31

## APPENDIX A

All plans on the following pages courtesy of Mesick Cohen Wilson Baker Architects

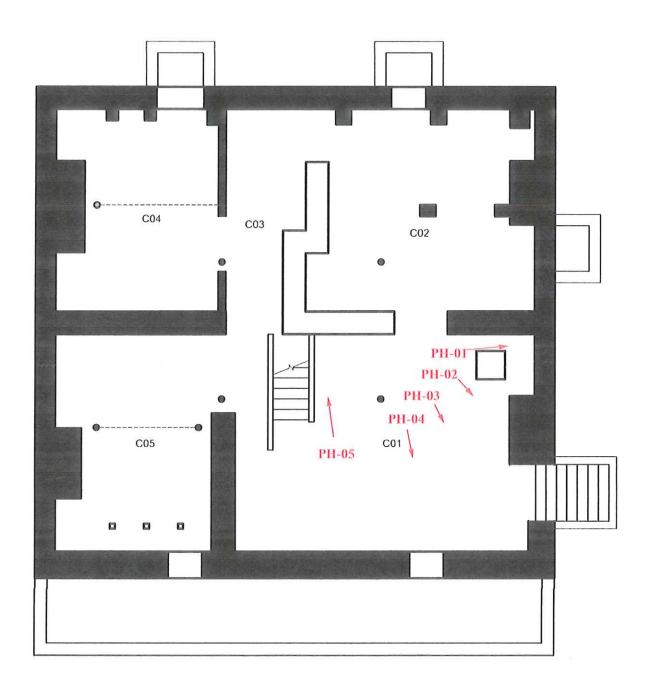


Fig. 23 - Hoffman house. Existing cellar plan.

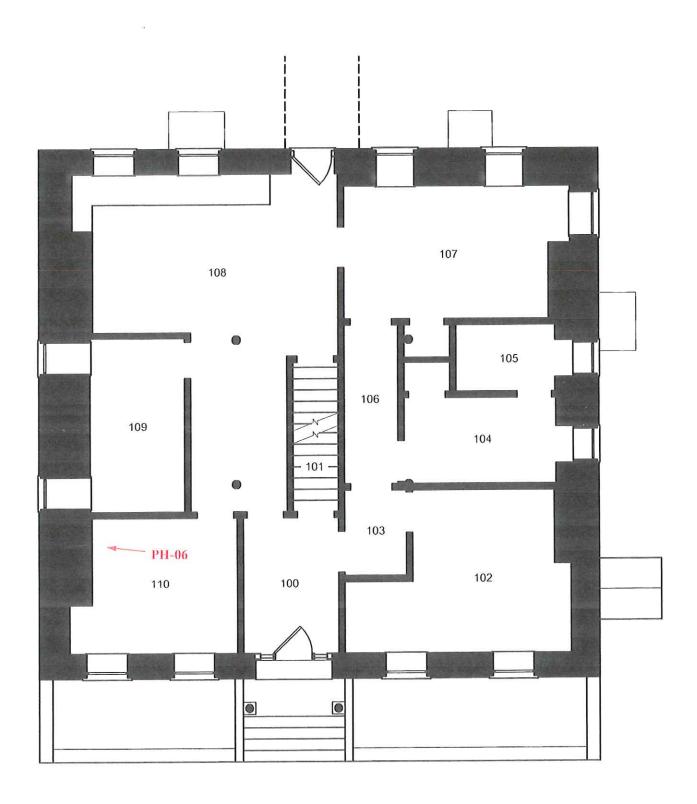


Fig. 26 - Hoffman house. Existing first floor plan.

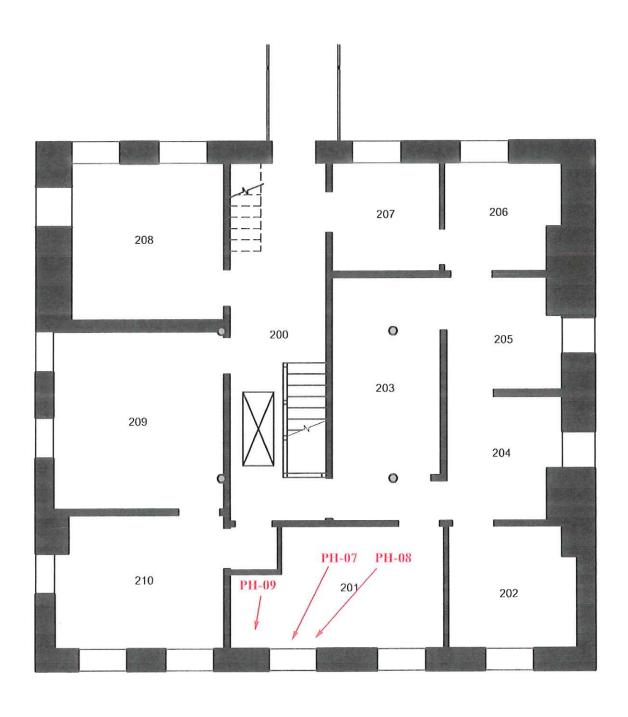


Fig. 36 - Hoffman house. Existing second floor plan.

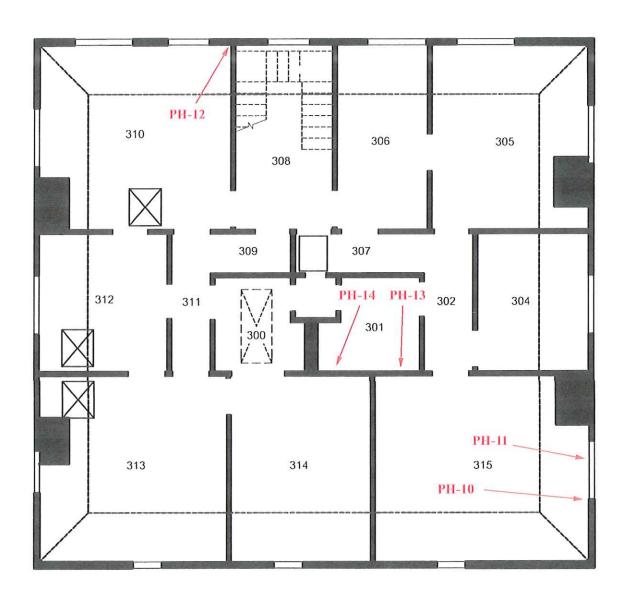


Fig. 39 - Hoffman house. Existing half-story plan.