BMDP7D - ONE- AND TWO-WAY ANALYSIS OF VARIANCE WITH DATA SCREENING

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 by BMDP Statistical Software, Inc.

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 Manual: BMDP Manual Volumes 1, 2, and 3.

 Digest: BMDP User's Digest.

 IBM PC: BMDP PC Supplement -- Installation and Special Features.

 PROGRAM INSTRUCTIONS

 /prob title = 'Herr Lauritz Englisch: D7D1.inp \*\*\* Quantitative Studien

 zum Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen = 10 Zeilen

 - Hier: Unterkiefer, Zahn 7 - 10

 - Umrechnung der relativen Werte in Prozentwerte

 - Berechnung der Flächenanteile ohne aeusseren Zement

 - mit Berechnung der Steigung "ST" ueber die Schnittebenen

 - einfaktorielle Varianzanalyse

 \*\*\*'.

 /inp var = 89.

 file = d. ## analog zu Datensatz B.Dat

 format = '16f10,8(/70x,9f10), /40x,1f10'. ## Mit Abstandsangabe für die Ebene 9

 /var names = zahnid,pferd,rasse,zp,qu,znr,za,

 for lo = 0 to 8.% ## Lokalisation

 for va = lok,statu,ps,pz,id,ges,s\_rel,z\_rel,d\_rel.%

 |va||lo|,%%

 abst99. ## Mit Abstandsangabe für die Ebene 99

 use = pferd,zp,qu,znr,za,

 for va = lok,ps,pz,id,ges,s\_rel,z\_rel,d\_rel,dges.%

 for lo = 0 to 8.% ## Lokalisation

 |va||lo|,%%

 for va = ps,id.%

 for lo = 0 to 8.%

 |va|\_r2|lo|,%%

 for va = ps,pz,id,ges,s\_rel,z\_rel,d\_rel,dges.%

 ST|va|,%

 for va = ps,id.%

 ST|va|r2,%

 .

 /group codes(pferd) = 7 to 10. ## diese Pferde haben mehr als 1 Zahn in der Au

 /trans use = ((znr ge 7) AND (znr le 10)).

 lok8 = abst99. ## Abstandsangabe für die Ebene 99

 # Umrechnung der relativen Werte in Prozentwerte

 for va = s\_rel,z\_rel,d\_rel.%

 for lo = 0 to 8.%

 |va||lo| = |va||lo| \* 100.%%

 # Berechnung der Flächenanteile ohne aeusseren Zement

 for va = ps,id.%

 for lo = 0 to 8.%

 |va|\_r2|lo| = |va||lo|/(ges|lo|-pz|lo|) \* 100.%%

 # Berechnung der Gesamtflaeche abzüglich peripherem Zement

 for lo = 0 to 8.%

 dges|lo| = ges|lo|-pz|lo|.%

 # Berechnung der Steigung "ST" ueber die Schnittebenen

 for va = ps,pz,id,ges,s\_rel,z\_rel,d\_rel,dges.%

 ST|va| = b(for lo = 0 to 8.% lok|lo|,|va||lo|,%).

 %

 for va = ps,id.%

 ST|va|r2 = b(for lo = 0 to 8.% lok|lo|,|va|\_r2|lo|,%).

 %

 /hist group = Pferd.

 var = for va = ps,pz,id,ges,s\_rel,z\_rel,d\_rel,dges.%

 ST|va|,%

 for va = ps,id.%

 ST|va|r2,%.

 /print level = min.

 case = 0.

 /end

 --- PROGRAM INSTRUCTIONS AFTER "FOR %" EXPANSION ---

 /prob title = 'Herr Lauritz Englisch: D7D1.inp \*\*\* Quantitative Studien zum

 Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen =

 10 Zeilen - Hier: Unterkiefer,

 Zahn 7 - 10 - Umrechnung der relativen Werte in Prozentwerte -

 Berechnung der Flächenanteile ohne aeusseren Zement - mit Berechnung

 der Steigung "ST" ueber die Schnittebenen - einfaktorielle

 Varianzanalyse \*\*\*'.

 /inp var = 89. file = d. format = '16f10,8(/70x,9f10),

 /40x,1f10'.

 /var names = zahnid,pferd,rasse,zp,qu,znr,za, lok0, statu0, ps0, pz0, id0,

 ges0, s\_rel0, z\_rel0, d\_rel0, lok1, statu1, ps1, pz1, id1, ges1,

 s\_rel1, z\_rel1, d\_rel1, lok2, statu2, ps2, pz2, id2, ges2, s\_rel2,

 z\_rel2, d\_rel2, lok3, statu3, ps3, pz3, id3, ges3, s\_rel3, z\_rel3,

 d\_rel3, lok4, statu4, ps4, pz4, id4, ges4, s\_rel4, z\_rel4, d\_rel4,

 lok5, statu5, ps5, pz5, id5, ges5, s\_rel5, z\_rel5, d\_rel5, lok6,

 statu6, ps6, pz6, id6, ges6, s\_rel6, z\_rel6, d\_rel6, lok7, statu7,

 ps7, pz7, id7, ges7, s\_rel7, z\_rel7, d\_rel7, lok8, statu8, ps8,

 pz8, id8, ges8, s\_rel8, z\_rel8, d\_rel8, abst99.

 use = pferd,zp,qu,znr,za, lok0, lok1, lok2, lok3, lok4, lok5,

 lok6, lok7, lok8, ps0, ps1, ps2, ps3, ps4, ps5, ps6,

 ps7, ps8, pz0, pz1, pz2, pz3, pz4, pz5, pz6, pz7, pz8,

 id0, id1, id2, id3, id4, id5, id6, id7, id8, ges0,

 ges1, ges2, ges3, ges4, ges5, ges6, ges7, ges8, s\_rel0,

 s\_rel1, s\_rel2, s\_rel3, s\_rel4, s\_rel5, s\_rel6, s\_rel7,

 s\_rel8, z\_rel0, z\_rel1, z\_rel2, z\_rel3, z\_rel4, z\_rel5,

 z\_rel6, z\_rel7, z\_rel8, d\_rel0, d\_rel1, d\_rel2, d\_rel3,

 d\_rel4, d\_rel5, d\_rel6, d\_rel7, d\_rel8, dges0, dges1,

 dges2, dges3, dges4, dges5, dges6, dges7, dges8, ps\_r20,

 ps\_r21, ps\_r22, ps\_r23, ps\_r24, ps\_r25, ps\_r26, ps\_r27, ps\_r28,

 id\_r20, id\_r21, id\_r22, id\_r23, id\_r24, id\_r25, id\_r26, id\_r27,

 id\_r28, STps, STpz, STid, STges, STs\_rel, STz\_rel, STd\_rel, STdges,

 STpsr2, STidr2 .

 /group codes(pferd) = 7 to 10.

 /trans use = ((znr ge 7) AND (znr le 10)). lok8 = abst99.

 s\_rel0 = s\_rel0 \* 100. s\_rel1 = s\_rel1 \* 100. s\_rel2 = s\_rel2 \* 100.

 s\_rel3 = s\_rel3 \* 100. s\_rel4 = s\_rel4 \* 100. s\_rel5 = s\_rel5 \* 100.

 s\_rel6 = s\_rel6 \* 100. s\_rel7 = s\_rel7 \* 100. s\_rel8 = s\_rel8 \* 100.

 z\_rel0 = z\_rel0 \* 100. z\_rel1 = z\_rel1 \* 100. z\_rel2 = z\_rel2 \* 100.

 z\_rel3 = z\_rel3 \* 100. z\_rel4 = z\_rel4 \* 100. z\_rel5 = z\_rel5 \* 100.

 z\_rel6 = z\_rel6 \* 100. z\_rel7 = z\_rel7 \* 100. z\_rel8 = z\_rel8 \* 100.

 d\_rel0 = d\_rel0 \* 100. d\_rel1 = d\_rel1 \* 100. d\_rel2 = d\_rel2 \* 100.

 d\_rel3 = d\_rel3 \* 100. d\_rel4 = d\_rel4 \* 100. d\_rel5 = d\_rel5 \* 100.

 d\_rel6 = d\_rel6 \* 100. d\_rel7 = d\_rel7 \* 100. d\_rel8 = d\_rel8 \* 100.

 ps\_r20 = ps0/(ges0-pz0) \* 100. ps\_r21 = ps1/(ges1-pz1) \* 100.

 ps\_r22 = ps2/(ges2-pz2) \* 100. ps\_r23 = ps3/(ges3-pz3) \* 100.

 ps\_r24 = ps4/(ges4-pz4) \* 100. ps\_r25 = ps5/(ges5-pz5) \* 100.

 ps\_r26 = ps6/(ges6-pz6) \* 100. ps\_r27 = ps7/(ges7-pz7) \* 100.

 ps\_r28 = ps8/(ges8-pz8) \* 100. id\_r20 = id0/(ges0-pz0) \* 100.

 id\_r21 = id1/(ges1-pz1) \* 100. id\_r22 = id2/(ges2-pz2) \* 100.

 id\_r23 = id3/(ges3-pz3) \* 100. id\_r24 = id4/(ges4-pz4) \* 100.

 id\_r25 = id5/(ges5-pz5) \* 100. id\_r26 = id6/(ges6-pz6) \* 100.

 id\_r27 = id7/(ges7-pz7) \* 100. id\_r28 = id8/(ges8-pz8) \* 100.

 dges0 = ges0-pz0. dges1 = ges1-pz1. dges2 = ges2-pz2. dges3 = ges3-pz3.

 dges4 = ges4-pz4. dges5 = ges5-pz5. dges6 = ges6-pz6. dges7 = ges7-pz7.

 dges8 = ges8-pz8. STps =

 b( lok0,ps0, lok1,ps1, lok2,ps2, lok3,ps3, lok4,ps4, lok5,ps5, lok6,

 ps6, lok7,ps7, lok8,ps8).

 STpz = b( lok0,pz0, lok1,pz1, lok2,pz2, lok3,pz3, lok4,pz4, lok5,pz5,

 lok6,pz6, lok7,pz7, lok8,pz8).

 STid = b( lok0,id0, lok1,id1, lok2,id2, lok3,id3, lok4,id4, lok5,id5,

 lok6,id6, lok7,id7, lok8,id8).

 STges = b( lok0,ges0, lok1,ges1, lok2,ges2, lok3,ges3, lok4,ges4, lok5,

 ges5, lok6,ges6, lok7,ges7, lok8,ges8).

 STs\_rel = b( lok0,s\_rel0, lok1,s\_rel1, lok2,s\_rel2, lok3,s\_rel3, lok4,

 s\_rel4, lok5,s\_rel5, lok6,s\_rel6, lok7,s\_rel7, lok8,s\_rel8).

 STz\_rel = b( lok0,z\_rel0, lok1,z\_rel1, lok2,z\_rel2, lok3,z\_rel3, lok4,

 z\_rel4, lok5,z\_rel5, lok6,z\_rel6, lok7,z\_rel7, lok8,z\_rel8).

 STd\_rel = b( lok0,d\_rel0, lok1,d\_rel1, lok2,d\_rel2, lok3,d\_rel3, lok4,

 d\_rel4, lok5,d\_rel5, lok6,d\_rel6, lok7,d\_rel7, lok8,d\_rel8).

 STdges = b( lok0,dges0, lok1,dges1, lok2,dges2, lok3,dges3, lok4,dges4,

 lok5,dges5, lok6,dges6, lok7,dges7, lok8,dges8).

 STpsr2 = b( lok0,ps\_r20, lok1,ps\_r21, lok2,ps\_r22, lok3,ps\_r23, lok4,

 ps\_r24, lok5,ps\_r25, lok6,ps\_r26, lok7,ps\_r27, lok8,ps\_r28).

 STidr2 = b( lok0,id\_r20, lok1,id\_r21, lok2,id\_r22, lok3,id\_r23, lok4,

 id\_r24, lok5,id\_r25, lok6,id\_r26, lok7,id\_r27, lok8,id\_r28).

 /hist group = Pferd. var = STps, STpz, STid, STges, STs\_rel, STz\_rel, STd\_rel,

 STdges, STpsr2, STidr2.

 /print level = min. case = 0.

 /end/

 NUMBER OF CASES READ. . . . . . . . . . . . . . 26

 CASES WITH USE SET TO ZERO . . . . . . . . . 10

 REMAINING NUMBER OF CASES . . . . . . . . 16

 DESCRIPTIVE STATISTICS OF DATA

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 VARIABLE TOTAL STANDARD ST.ERR COEFF SMALLEST LARGEST

 NO. NAME FREQ. MEAN DEV. OF MEAN OF VAR VALUE VALUE RANGE

 2 pferd 16 7.0625 2.9090 .72726 .41190 1.0000 10.000 9.0000

 4 zp 16 376.75 47.885 11.971 .12710 307.00 410.00 103.00

 5 qu 16 3.6875 .47871 .11968 .12982 3.0000 4.0000 1.0000

 6 znr 16 8.0000 1.1547 .28868 .14434 7.0000 10.000 3.0000

 7 za 16 9.9375 5.0986 1.2747 .51307 1.5000 16.000 14.500

 8 lok0 16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

 17 lok1 16 10.000 0.0000 0.0000 0.0000 10.000 10.000 0.0000

 26 lok2 16 20.000 0.0000 0.0000 0.0000 20.000 20.000 0.0000

 35 lok3 16 30.000 0.0000 0.0000 0.0000 30.000 30.000 0.0000

 44 lok4 16 40.000 0.0000 0.0000 0.0000 40.000 40.000 0.0000

 53 lok5 16 50.000 0.0000 0.0000 0.0000 50.000 50.000 0.0000

 62 lok6 16 60.000 0.0000 0.0000 0.0000 60.000 60.000 0.0000

 71 lok7 16 70.000 0.0000 0.0000 0.0000 70.000 70.000 0.0000

 80 lok8 16 41.292 19.043 4.7607 .46118 21.570 75.770 54.200

 10 ps0 16 89.754 19.127 4.7819 .21311 62.530 134.11 71.580

 19 ps1 16 120.94 20.451 5.1127 .16910 78.390 161.60 83.210

 28 ps2 16 123.72 22.112 5.5280 .17872 82.190 156.03 73.840

 37 ps3 9 127.59 16.927 5.6424 .13267 104.87 154.31 49.440

 46 ps4 6 128.68 16.916 6.9061 .13146 104.75 146.52 41.770

 55 ps5 5 124.15 12.314 5.5069 .09918 105.90 139.93 34.030

 64 ps6 4 128.48 4.2764 2.1382 .03329 124.47 133.20 8.7300

 73 ps7 1 132.77 0.0000 0.0000 0.0000 132.77 132.77 0.0000

 82 ps8 16 117.98 18.737 4.6842 .15881 81.150 144.73 63.580

 11 pz0 16 50.933 35.626 8.9066 .69947 16.270 123.60 107.33

 20 pz1 16 109.45 64.351 16.088 .58795 32.440 208.98 176.54

 29 pz2 16 159.88 83.986 20.996 .52530 40.650 292.54 251.89

 38 pz3 9 142.12 84.246 28.082 .59277 51.940 279.64 227.70

 47 pz4 5 96.750 35.789 16.006 .36992 55.760 137.65 81.890

 56 pz5 5 162.12 89.864 40.188 .55431 65.850 267.20 201.35

 65 pz6 4 208.12 27.576 13.788 .13250 187.00 247.63 60.630

 74 pz7 1 253.18 0.0000 0.0000 0.0000 253.18 253.18 0.0000

 83 pz8 16 165.91 42.773 10.693 .25781 92.850 257.61 164.76

 12 id0 16 192.71 32.884 8.2211 .17064 108.33 232.01 123.68

 21 id1 16 169.97 30.189 7.5473 .17761 104.42 229.04 124.62

 30 id2 16 170.20 28.516 7.1290 .16755 102.30 218.55 116.25

 39 id3 9 193.51 24.499 8.1665 .12661 156.56 222.95 66.390

 48 id4 6 183.51 27.205 11.106 .14824 152.21 216.25 64.040

 57 id5 5 189.13 31.456 14.067 .16631 150.48 219.37 68.890

 66 id6 4 178.41 32.670 16.335 .18312 147.75 207.04 59.290

 75 id7 1 193.95 0.0000 0.0000 0.0000 193.95 193.95 0.0000

 84 id8 16 172.95 32.968 8.2419 .19062 102.53 225.12 122.59

 13 ges0 16 333.40 61.417 15.354 .18422 209.51 461.13 251.62

 22 ges1 16 400.36 82.318 20.579 .20561 271.44 519.47 248.03

 31 ges2 16 453.80 97.804 24.451 .21552 311.87 605.64 293.77

 40 ges3 9 463.21 105.96 35.321 .22876 332.43 650.18 317.75

 49 ges4 5 417.42 66.830 29.887 .16010 345.03 493.87 148.84

 58 ges5 5 475.41 123.61 55.278 .26000 337.48 626.51 289.03

 67 ges6 4 515.00 35.492 17.746 .06892 464.06 545.60 81.540

 76 ges7 1 579.90 0.0000 0.0000 0.0000 579.90 579.90 0.0000

 85 ges8 16 456.83 82.501 20.625 .18059 281.42 569.58 288.16

 14 s\_rel0 16 27.038 3.4510 .86274 .12764 21.600 35.500 13.900

 23 s\_rel1 16 30.725 4.6540 1.1635 .15147 23.500 38.700 15.200

 32 s\_rel2 16 27.969 5.8900 1.4725 .21059 21.900 37.700 15.800

 41 s\_rel3 9 28.344 5.0683 1.6894 .17881 22.200 34.800 12.600

 50 s\_rel4 5 32.000 4.9031 2.1927 .15322 27.300 39.700 12.400

 59 s\_rel5 5 27.160 5.6487 2.5262 .20798 22.000 35.900 13.900

 68 s\_rel6 4 25.000 1.2247 .61237 .04899 24.100 26.800 2.7000

 77 s\_rel7 1 22.900 0.0000 0.0000 0.0000 22.900 22.900 0.0000

 86 s\_rel8 16 26.131 3.3420 .83550 .12789 21.100 35.000 13.900

 15 z\_rel0 16 14.681 8.4979 2.1245 .57883 4.9000 27.000 22.100

 24 z\_rel1 16 25.912 11.793 2.9481 .45509 10.600 42.300 31.700

 33 z\_rel2 16 33.500 13.764 3.4410 .41086 12.600 49.900 37.300

 42 z\_rel3 9 28.722 11.480 3.8266 .39969 15.600 43.000 27.400

 51 z\_rel4 5 22.640 5.3984 2.4142 .23845 16.200 29.200 13.000

 60 z\_rel5 5 32.080 10.560 4.7224 .32917 19.500 43.000 23.500

 69 z\_rel6 4 40.475 5.0408 2.5204 .12454 36.200 47.600 11.400

 78 z\_rel7 1 43.700 0.0000 0.0000 0.0000 43.700 43.700 0.0000

 87 z\_rel8 16 35.956 4.2417 1.0604 .11797 26.600 46.800 20.200

 16 d\_rel0 16 58.275 7.5841 1.8960 .13014 44.100 70.300 26.200

 25 d\_rel1 16 43.369 8.0354 2.0088 .18528 32.100 53.600 21.500

 34 d\_rel2 16 38.531 8.0440 2.0110 .20877 27.200 50.900 23.700

 43 d\_rel3 9 42.900 6.8218 2.2739 .15902 34.300 50.700 16.400

 52 d\_rel4 5 45.340 2.1686 .96985 .04783 43.400 47.700 4.3000

 61 d\_rel5 5 40.740 5.5891 2.4995 .13719 35.000 47.300 12.300

 70 d\_rel6 4 34.550 4.8925 2.4463 .14161 28.400 39.100 10.700

 79 d\_rel7 1 33.400 0.0000 0.0000 0.0000 33.400 33.400 0.0000

 88 d\_rel8 16 37.925 3.3670 .84175 .08878 32.100 45.800 13.700

 108 dges0 16 282.46 45.841 11.460 .16229 170.86 337.53 166.67

 109 dges1 16 290.91 45.745 11.436 .15725 182.80 361.64 178.84

 110 dges2 16 293.92 49.666 12.416 .16898 184.49 374.58 190.09

 111 dges3 9 321.09 39.081 13.027 .12171 267.09 370.54 103.45

 112 dges4 5 320.67 37.651 16.838 .11741 273.83 362.77 88.940

 113 dges5 5 313.30 41.784 18.686 .13337 266.62 359.31 92.690

 114 dges6 4 306.89 36.813 18.407 .11996 273.02 339.45 66.430

 115 dges7 1 326.72 0.0000 0.0000 0.0000 326.72 326.72 0.0000

 116 dges8 16 290.93 46.895 11.724 .16119 188.57 360.36 171.79

 90 ps\_r20 16 31.819 3.8969 .97422 .12247 25.378 39.733 14.355

 91 ps\_r21 16 41.663 3.3050 .82625 .07933 32.431 46.323 13.893

 92 ps\_r22 16 42.066 1.7951 .44878 .04267 39.175 45.722 6.5471

 93 ps\_r23 9 39.743 2.0723 .69077 .05214 36.751 42.341 5.5891

 94 ps\_r24 5 41.221 3.6860 1.6484 .08942 38.254 47.381 9.1277

 95 ps\_r25 5 39.833 2.8098 1.2566 .07054 37.243 44.597 7.3542

 96 ps\_r26 4 42.199 3.7271 1.8636 .08832 38.747 45.883 7.1357

 97 ps\_r27 1 40.637 0.0000 0.0000 0.0000 40.637 40.637 0.0000

 98 ps\_r28 16 40.740 3.9343 .98358 .09657 37.127 51.268 14.141

 99 id\_r20 16 68.181 3.8975 .97438 .05716 60.267 74.626 14.358

 100 id\_r21 16 58.337 3.3050 .82625 .05665 53.677 67.569 13.893

 101 id\_r22 16 57.934 1.7950 .44875 .03098 54.274 60.825 6.5505

 102 id\_r23 9 60.257 2.0728 .69094 .03440 57.659 63.249 5.5891

 103 id\_r24 5 58.778 3.6853 1.6481 .06270 52.619 61.743 9.1240

 104 id\_r25 5 60.164 2.8101 1.2567 .04671 55.399 62.754 7.3550

 105 id\_r26 4 57.802 3.7279 1.8640 .06450 54.117 61.253 7.1357

 106 id\_r27 1 59.363 0.0000 0.0000 0.0000 59.363 59.363 0.0000

 107 id\_r28 16 59.261 3.9346 .98366 .06640 48.728 62.870 14.142

 117 STps 16 .68289 .52635 .13159 .77077 -.11643 1.7245 1.8409

 118 STpz 16 3.7048 1.4794 .36985 .39932 1.4930 7.5728 6.0798

 119 STid 16 -.38397 .60354 .15089 -1.5718 -2.1609 .45713 2.6180

 120 STges 16 3.9974 1.7050 .42625 .42652 2.1687 8.2274 6.0587

 121 STs\_rel 16 -.07953 .11042 .02760 -1.3884 -.23804 .24584 .48388

 122 STz\_rel 16 .61927 .21218 .05305 .34264 .17742 1.0073 .82991

 123 STd\_rel 16 -.53972 .21815 .05454 -.40419 -.87326 -.16331 .70996

 124 STdges 16 .29265 .50220 .12555 1.7160 -.43653 1.3783 1.8148

 125 STpsr2 16 .20630 .16401 .04100 .79501 -.03888 .59045 .62933

 126 STidr2 16 -.20628 .16400 .04100 -.79505 -.59042 .03885 .62927

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STps \* ( 117) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 1.80000) \*

 1.62000)\*

 1.44000)

 1.26000) M\*

 1.08000)N

 0.90000) \*

 0.72000) \* N M

 0.54000)\* \*\* \*

 0.36000) \* \*

 0.18000) M

 0.00000) \*

 -0.18000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 1.036 1.248 0.250 0.643 0.686

 STD.DEV. 0.742 0.031 0.310 0.151 0.638

 S. E. M. 0.525 0.022 0.155 0.087 0.285

 MAXIMUM 1.560 1.270 0.632 0.811 1.724

 MINIMUM 0.511 1.226 -0.116 0.517 0.068

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.682

 | pferd 1.6397 3 0.5466 4.32 0.0508 | STD. DEV. 0.503

 | ERROR 0.8863 7 0.1266 | S. E. M. 0.152

 |--------------------------------------------------------------------------| MAXIMUM 1.560

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.116

 | WELCH 3, 3 18.79 0.0190 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 1 3.10 0.3904 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 6.70 0.0182 | ROBUST S.D. 0.511

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STpz \* ( 118) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 7.80000) \*

 7.20000)

 6.60000) N

 6.00000)

 5.40000)\* \*

 4.80000)N \*

 4.20000)\* \*

 3.60000) \* M

 3.00000) M\* M \*\*\*

 2.40000)

 1.80000) \*

 1.20000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 4.737 6.361 2.704 2.809 3.568

 STD.DEV. 0.627 1.714 0.555 1.323 0.763

 S. E. M. 0.444 1.212 0.278 0.764 0.341

 MAXIMUM 5.180 7.573 3.321 4.138 4.889

 MINIMUM 4.293 5.149 1.971 1.493 2.951

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 3.767

 | pferd 22.6106 3 7.5369 6.80 0.0175 | STD. DEV. 1.743

 | ERROR 7.7543 7 1.1078 | S. E. M. 0.525

 |--------------------------------------------------------------------------| MAXIMUM 7.573

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 1.493

 | WELCH 3, 3 4.78 0.1155 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 3 5.39 0.1000 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 1.83 0.2301 | ROBUST S.D. 1.792

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STid \* ( 119) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 0.50000) \* \*

 0.25000)

 0.00000) \* N \*

 -0.25000)M M \*

 -0.50000)\* M\* \* \*

 -0.75000) \* M\*

 -1.00000)

 -1.25000)

 -1.50000)

 -1.75000)

 -2.00000)

 -2.25000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.297 -0.528 -0.291 -0.062 -0.629

 STD.DEV. 0.162 0.123 0.344 0.446 0.996

 S. E. M. 0.114 0.087 0.172 0.258 0.445

 MAXIMUM -0.182 -0.441 0.116 0.441 0.457

 MINIMUM -0.411 -0.615 -0.681 -0.411 -2.161

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.273

 | pferd 0.2663 3 0.0888 0.78 0.5405 | STD. DEV. 0.326

 | ERROR 0.7945 7 0.1135 | S. E. M. 0.098

 |--------------------------------------------------------------------------| MAXIMUM 0.441

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.681

 | WELCH 3, 4 1.23 0.4078 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 5 1.05 0.4477 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 1.88 0.2205 | ROBUST S.D. 0.325

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STges \* ( 120) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 9.00000)

 8.40000) \*

 7.80000)

 7.20000) N

 6.60000)\*

 6.00000) \*

 5.40000)N

 4.80000) \*

 4.20000)\* \*

 3.60000) \* M M\*

 3.00000) \* \*

 2.40000) M\* \* \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 5.475 7.080 2.663 3.390 3.605

 STD.DEV. 1.532 1.622 0.505 0.940 0.965

 S. E. M. 1.083 1.147 0.252 0.543 0.432

 MAXIMUM 6.558 8.227 3.321 4.330 5.016

 MINIMUM 4.392 5.933 2.169 2.451 2.515

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 4.176

 | pferd 31.2521 3 10.4174 9.71 0.0069 | STD. DEV. 1.969

 | ERROR 7.5076 7 1.0725 | S. E. M. 0.594

 |--------------------------------------------------------------------------| MAXIMUM 8.227

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 2.169

 | WELCH 3, 2 4.21 0.1978 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 3 6.41 0.0807 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 3.38 0.0835 | ROBUST S.D. 2.046

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STs\_rel \* ( 121) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 0.300000)

 0.250000) \*

 0.200000)

 0.150000)

 0.100000)

 0.050000)

 0.000000)\* \* \*

 -.050000) \* M M

 -.100000)N N M \*

 -.150000)\* \* \* \* \*

 -.200000) \*

 -.250000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.077 -0.084 -0.121 -0.070 -0.051

 STD.DEV. 0.114 0.069 0.094 0.069 0.172

 S. E. M. 0.081 0.049 0.047 0.040 0.077

 MAXIMUM 0.004 -0.035 -0.012 -0.014 0.246

 MINIMUM -0.157 -0.133 -0.238 -0.146 -0.176

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.092

 | pferd 0.0055 3 0.0018 0.24 0.8660 | STD. DEV. 0.077

 | ERROR 0.0535 7 0.0076 | S. E. M. 0.023

 |--------------------------------------------------------------------------| MAXIMUM 0.004

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.238

 | WELCH 3, 3 0.17 0.9110 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 4 0.23 0.8692 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 0.33 0.8029 | ROBUST S.D. 0.085

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STz\_rel \* ( 122) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 1.04000) \*

 0.96000) \*

 0.88000) N

 0.80000)\*

 0.72000)M \* \*\*

 0.64000) \*

 0.56000) \*\* N M

 0.48000) M \*

 0.40000) \* \*

 0.32000)

 0.24000)

 0.16000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.757 0.872 0.496 0.597 0.575

 STD.DEV. 0.036 0.191 0.065 0.387 0.149

 S. E. M. 0.025 0.135 0.033 0.223 0.066

 MAXIMUM 0.783 1.007 0.554 0.939 0.725

 MINIMUM 0.732 0.737 0.414 0.177 0.369

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.640

 | pferd 0.2230 3 0.0743 1.49 0.2985 | STD. DEV. 0.239

 | ERROR 0.3495 7 0.0499 | S. E. M. 0.072

 |--------------------------------------------------------------------------| MAXIMUM 1.007

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.177

 | WELCH 3, 3 9.58 0.0479 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 3 1.57 0.3608 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 3.99 0.0599 | ROBUST S.D. 0.247

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STd\_rel \* ( 123) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 -.070000)

 -.140000) \*

 -.210000) \*

 -.280000) \*

 -.350000) M

 -.420000) \*\* \*

 -.490000) N

 -.560000) N

 -.630000)\* \* \*\*

 -.700000)N \*

 -.770000)\* N \* \*

 -.840000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.682 -0.787 -0.374 -0.527 -0.524

 STD.DEV. 0.079 0.122 0.067 0.326 0.220

 S. E. M. 0.056 0.086 0.033 0.188 0.098

 MAXIMUM -0.626 -0.701 -0.305 -0.163 -0.192

 MINIMUM -0.737 -0.873 -0.455 -0.794 -0.742

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.547

 | pferd 0.2719 3 0.0906 2.57 0.1373 | STD. DEV. 0.228

 | ERROR 0.2472 7 0.0353 | S. E. M. 0.069

 |--------------------------------------------------------------------------| MAXIMUM -0.163

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.873

 | WELCH 3, 3 7.90 0.0618 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 3 2.79 0.2108 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 4.38 0.0491 | ROBUST S.D. 0.257

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STdges \* ( 124) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 1.62000)

 1.44000)\*

 1.26000)

 1.08000)

 0.90000) \*

 0.72000)N M\*

 0.54000) M \*

 0.36000) \*

 0.18000)\* \* \* \*

 0.00000) M\* N

 -0.18000)

 -0.36000) \* \*\*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.739 0.719 -0.041 0.581 0.037

 STD.DEV. 0.904 0.092 0.239 0.383 0.421

 S. E. M. 0.639 0.065 0.120 0.221 0.188

 MAXIMUM 1.378 0.784 0.197 0.958 0.525

 MINIMUM 0.099 0.655 -0.373 0.192 -0.437

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.409

 | pferd 1.3086 3 0.4362 2.36 0.1571 | STD. DEV. 0.510

 | ERROR 1.2914 7 0.1845 | S. E. M. 0.154

 |--------------------------------------------------------------------------| MAXIMUM 1.378

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.373

 | WELCH 3, 3 7.18 0.0699 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 1 1.60 0.5134 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 6.12 0.0228 | ROBUST S.D. 0.556

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STpsr2 \* ( 125) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 0.600000) \*

 0.540000)

 0.480000)

 0.420000)

 0.360000)\* M

 0.300000) \* \*

 0.240000)N M M\*

 0.180000)\* \*\*

 0.120000) N

 0.060000) \* \* \*

 0.000000)

 -.060000) \* \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.250 0.343 0.097 0.214 0.217

 STD.DEV. 0.119 0.026 0.106 0.131 0.240

 S. E. M. 0.084 0.018 0.053 0.076 0.107

 MAXIMUM 0.334 0.362 0.202 0.315 0.590

 MINIMUM 0.165 0.325 -0.033 0.066 -0.039

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.202

 | pferd 0.0889 3 0.0296 2.49 0.1441 | STD. DEV. 0.131

 | ERROR 0.0832 7 0.0119 | S. E. M. 0.040

 |--------------------------------------------------------------------------| MAXIMUM 0.362

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.033

 | WELCH 3, 3 4.92 0.1116 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 4 2.79 0.1737 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 2.10 0.1887 | ROBUST S.D. 0.141

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STidr2 \* ( 126) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 0.060000) \* \*

 0.000000)

 -.060000) \* \* \*

 -.120000) N

 -.180000)\* \*\*

 -.240000)N M M\*

 -.300000) \* \*

 -.360000)\* M

 -.420000)

 -.480000)

 -.540000)

 -.600000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.250 -0.343 -0.097 -0.214 -0.217

 STD.DEV. 0.119 0.026 0.106 0.131 0.240

 S. E. M. 0.084 0.019 0.053 0.076 0.107

 MAXIMUM -0.165 -0.325 0.033 -0.066 0.039

 MINIMUM -0.334 -0.362 -0.202 -0.314 -0.590

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.202

 | pferd 0.0889 3 0.0296 2.49 0.1445 | STD. DEV. 0.131

 | ERROR 0.0833 7 0.0119 | S. E. M. 0.040

 |--------------------------------------------------------------------------| MAXIMUM 0.033

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.362

 | WELCH 3, 3 4.91 0.1120 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 4 2.78 0.1742 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 2.10 0.1891 | ROBUST S.D. 0.141

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

 / FINISH

 PROGRAM TERMINATED

 BMDP7D - ONE- AND TWO-WAY ANALYSIS OF VARIANCE WITH DATA SCREENING

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 by BMDP Statistical Software, Inc.

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 Release: 8.1 (Windows 9x, 2000, Me, Xp) Date: 05/31/17 at 10:04:37

 Manual: BMDP Manual Volumes 1, 2, and 3.

 Digest: BMDP User's Digest.

 IBM PC: BMDP PC Supplement -- Installation and Special Features.

 PROGRAM INSTRUCTIONS

 /prob title = 'Herr Lauritz Englisch: C7D1.inp \*\*\* Quantitative Studien

 zum Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen = 10 Zeilen

 - Hier: Oberkiefer, Zahn 7 - 10

 - Umrechnung der relativen Werte in Prozentwerte

 - Berechnung der Flächenanteile ohne aeusseren Zement

 - mit Berechnung der Steigung "ST" ueber die Schnittebenen

 - einfaktorielle Varianzanalyse

 - ergaenzt um die Parameter infm = ism+izm und infd = isd+izd

 \*\*\*'.

 /inp var = 278.

 file = c.

 format = '34f10,9(/70x,27f10), /40x,1f10'. ## Mit Abstandsangabe für die Ebene

 /var names = zahnid,pferd,rasse,zp,qu,znr,za,

 for lo = 0 to 9.% ## Lokalisation

 for va = lok,statu,ps,pz,isd,izd,ism,izm,idz,id,ges,sges,dz\_sb,i\_zb,

 inf,ps\_rel,s\_rel,pz\_r,isd\_r,izd\_r,ism\_r,izm\_r,idz\_r,

 id\_r,sges\_r,i\_zb\_r,inf\_r.%

 |va||lo|,%%

 abst99. ## Mit Abstandsangabe für die Ebene 99

 use = pferd,zp,qu,znr,za,

 for va = lok,statu,ps,pz,isd,izd,ism,izm,idz,id,ges,sges,dz\_sb,i\_zb,

 inf,ps\_rel,s\_rel,pz\_r,isd\_r,izd\_r,ism\_r,izm\_r,idz\_r,

 id\_r,sges\_r,i\_zb\_r,inf\_r,dges,infm,infd.%

 for lo = 0 to 9.% ## Lokalisation

 |va||lo|,%%

 for va = ps,pz,isd,izd,ism,izm,idz,id,ges,sges,dz\_sb,i\_zb,

 inf,ps\_rel,s\_rel,pz\_r,isd\_r,izd\_r,ism\_r,izm\_r,idz\_r,

 id\_r,sges\_r,i\_zb\_r,inf\_r,dges,infm,infd.%

 ST|va|,%

 for va = ps,id,isd,ism,sges,inf,infm,infd.%

 ST|va|r2,%

 .

 /group codes(pferd) = 9,10,15,16,18. ## diese Pferde haben mehr als 1 Zahn in

 /trans use = ((znr ge 7) AND (znr le 10)).

 lok9 = abst99. ## Abstandsangabe für die Ebene 99

 # Umrechnung der relativen Werte in Prozentwerte

 for va = ps\_rel,s\_rel,pz\_r,isd\_r,izd\_r,ism\_r,izm\_r,idz\_r,

 id\_r,sges\_r,i\_zb\_r,inf\_r.%

 for lo = 0 to 9.%

 |va||lo| = |va||lo| \* 100.%%

 # Berechnung zusaetzlicher Flaechen

 # infd = isd+izd und infm = ism+izm

 for se = m, d.%

 for lo = 0 to 9.%

 inf|se||lo| = is|se||lo| + is|se||lo|.%%

 # Berechnung der Flächenanteile ohne aeusseren Zement

 for va = ps,id,isd,ism,sges,inf,infm,infd.%

 for lo = 0 to 9.%

 |va|\_r2|lo| = |va||lo|/(ges|lo|-pz|lo|) \* 100.%%

 # Berechnung der Gesamtflaeche abzüglich peripherem Zement

 for lo = 0 to 9.%

 dges|lo| = ges|lo|-pz|lo|.%

 # Berechnung der Steigung "ST" ueber die Schnittebenen

 for va = ps,pz,isd,izd,ism,izm,idz,id,ges,sges,dz\_sb,i\_zb,

 inf,ps\_rel,s\_rel,pz\_r,isd\_r,izd\_r,ism\_r,izm\_r,idz\_r,

 id\_r,sges\_r,i\_zb\_r,inf\_r,dges,infm,infd.%

 ST|va| = b(for lo = 0 to 9.% lok|lo|,|va||lo|,%).

 %

 for va = ps,id,isd,ism,sges,inf,infm,infd.%

 ST|va|r2 = b(for lo = 0 to 9.% lok|lo|,|va|\_r2|lo|,%).

 %

 /hist group = Pferd.

 var = for va = ps,pz,isd,izd,ism,izm,idz,id,ges,sges,dz\_sb,i\_zb,

 inf,ps\_rel,s\_rel,pz\_r,isd\_r,izd\_r,ism\_r,izm\_r,idz\_r,

 id\_r,sges\_r,i\_zb\_r,inf\_r,dges,infm,infd.%

 ST|va|,%

 for va = ps,id,isd,ism,sges,inf,infm,infd.%

 ST|va|r2,%.

 /print level = min.

 case = 0.

 /end

 --- PROGRAM INSTRUCTIONS AFTER "FOR %" EXPANSION ---

 /prob title = 'Herr Lauritz Englisch: C7D1.inp \*\*\* Quantitative Studien zum

 Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen =

 10 Zeilen - Hier: Oberkiefer,

 Zahn 7 - 10 - Umrechnung der relativen Werte in Prozentwerte -

 Berechnung der Flächenanteile ohne aeusseren Zement - mit Berechnung

 der Steigung "ST" ueber die Schnittebenen - einfaktorielle

 Varianzanalyse - ergaenzt um die Parameter infm =

 ism+izm und infd = isd+izd \*\*\*'.

 /inp var = 278. file = c. format = '34f10,9(/70x,27f10),

 /40x,1f10'.

 /var names = zahnid,pferd,rasse,zp,qu,znr,za, lok0, statu0, ps0, pz0, isd0,

 izd0, ism0, izm0, idz0, id0, ges0, sges0, dz\_sb0, i\_zb0, inf0,

...

 STsgesr2, STinfr2, STinfmr2, STinfdr2 .

 /group codes(pferd) = 9,10,15,16,18.

 /trans use = ((znr ge 7) AND (znr le 10)). lok9 = abst99.

 ps\_rel0 = ps\_rel0 \* 100. ps\_rel1 = ps\_rel1 \* 100.

...

 STinfdr2 = b( lok0,infd\_r20, lok1,infd\_r21, lok2,infd\_r22, lok3,infd\_r23,

 lok4,infd\_r24, lok5,infd\_r25, lok6,infd\_r26, lok7,infd\_r27, lok8,

 infd\_r28, lok9,infd\_r29).

 /hist group = Pferd. var = STps, STpz, STisd, STizd, STism, STizm, STidz,

 STid, STges, STsges, STdz\_sb, STi\_zb, STinf, STps\_rel, STs\_rel,

 STpz\_r, STisd\_r, STizd\_r, STism\_r, STizm\_r, STidz\_r, STid\_r,

 STsges\_r, STi\_zb\_r, STinf\_r, STdges, STinfm, STinfd, STpsr2,

 STidr2, STisdr2, STismr2, STsgesr2, STinfr2, STinfmr2, STinfdr2.

 /print level = min. case = 0.

 /end/

 NUMBER OF CASES READ. . . . . . . . . . . . . . 28

 CASES WITH USE SET TO ZERO . . . . . . . . . 8

 REMAINING NUMBER OF CASES . . . . . . . . 20

 DESCRIPTIVE STATISTICS OF DATA

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

 VARIABLE TOTAL STANDARD ST.ERR COEFF SMALLEST LARGEST

 NO. NAME FREQ. MEAN DEV. OF MEAN OF VAR VALUE VALUE RANGE

 2 pferd 20 12.400 4.4651 .99842 .36009 2.0000 18.000 16.000

 4 zp 20 148.50 50.380 11.265 .33926 107.00 210.00 103.00

 5 qu 20 1.4000 .50262 .11239 .35902 1.0000 2.0000 1.0000

 6 znr 20 8.5000 1.1471 .25649 .13495 7.0000 10.000 3.0000

 7 za 20 10.525 5.7181 1.2786 .54329 1.0000 20.000 19.000

 8 lok0 20 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

 35 lok1 20 10.000 0.0000 0.0000 0.0000 10.000 10.000 0.0000

 62 lok2 20 20.000 0.0000 0.0000 0.0000 20.000 20.000 0.0000

 89 lok3 20 30.000 0.0000 0.0000 0.0000 30.000 30.000 0.0000

 116 lok4 20 40.000 0.0000 0.0000 0.0000 40.000 40.000 0.0000

 143 lok5 20 50.000 0.0000 0.0000 0.0000 50.000 50.000 0.0000

 170 lok6 20 60.000 0.0000 0.0000 0.0000 60.000 60.000 0.0000

 197 lok7 20 70.000 0.0000 0.0000 0.0000 70.000 70.000 0.0000

 224 lok8 20 80.000 0.0000 0.0000 0.0000 80.000 80.000 0.0000

 251 lok9 20 38.955 13.905 3.1093 .35696 21.910 62.490 40.580

 9 statu0 20 1.0000 0.0000 0.0000 0.0000 1.0000 1.0000 0.0000

 36 statu1 20 1.3500 .48936 .10942 .36249 1.0000 2.0000 1.0000

 63 statu2 20 1.9500 .94451 .21120 .48437 1.0000 3.0000 2.0000

 90 statu3 20 2.2000 .95145 .21275 .43248 1.0000 3.0000 2.0000

 117 statu4 20 2.5500 .75915 .16975 .29771 1.0000 3.0000 2.0000

 144 statu5 20 2.8500 .48936 .10942 .17171 1.0000 3.0000 2.0000

 171 statu6 20 3.0000 0.0000 0.0000 0.0000 3.0000 3.0000 0.0000

 198 statu7 20 3.0000 0.0000 0.0000 0.0000 3.0000 3.0000 0.0000

 225 statu8 20 3.0000 0.0000 0.0000 0.0000 3.0000 3.0000 0.0000

 252 statu9 20 3.0000 0.0000 0.0000 0.0000 3.0000 3.0000 0.0000

 10 ps0 19 91.440 19.876 4.5600 .21737 61.020 126.63 65.610

 37 ps1 19 109.67 17.667 4.0530 .16108 80.020 140.16 60.140

 64 ps2 19 105.02 14.384 3.2999 .13697 81.630 130.06 48.430

 91 ps3 9 107.33 14.584 4.8612 .13588 88.040 139.81 51.770

 118 ps4 9 104.03 13.034 4.3446 .12528 86.670 125.62 38.950

 145 ps5 5 99.996 6.7903 3.0367 .06791 93.090 109.45 16.360

 172 ps6 2 110.14 1.1950 .84500 .01085 109.29 110.98 1.6900

 199 ps7 0

 226 ps8 0

 253 ps9 20 100.38 14.910 3.3340 .14853 72.580 123.85 51.270

 11 pz0 19 27.856 12.064 2.7676 .43307 10.680 57.830 47.150

 38 pz1 19 76.448 40.825 9.3659 .53402 30.350 165.71 135.36

 65 pz2 19 104.01 59.192 13.580 .56912 33.970 201.47 167.50

 92 pz3 9 62.862 29.859 9.9528 .47498 36.950 133.22 96.270

 119 pz4 9 107.63 49.818 16.606 .46284 43.970 180.19 136.22

 146 pz5 5 133.81 61.615 27.555 .46047 67.240 206.04 138.80

 173 pz6 2 144.55 8.2095 5.8050 .05679 138.75 150.36 11.610

 200 pz7 0

 227 pz8 0

 254 pz9 20 143.61 33.160 7.4148 .23090 58.230 185.52 127.29

 12 isd0 2 17.975 11.646 8.2350 .64790 9.7400 26.210 16.470

 39 isd1 19 19.391 5.5500 1.2732 .28621 9.0600 28.860 19.800

 66 isd2 19 23.437 4.1787 .95867 .17830 16.330 30.330 14.000

 93 isd3 9 26.367 4.5894 1.5298 .17406 20.620 34.060 13.440

 120 isd4 9 25.148 5.3570 1.7857 .21302 18.380 32.790 14.410

 147 isd5 5 25.024 4.2302 1.8918 .16904 22.010 32.170 10.160

 174 isd6 2 27.405 1.0394 .73500 .03793 26.670 28.140 1.4700

 201 isd7 0

 228 isd8 0

 255 isd9 20 25.475 5.8267 1.3029 .22873 12.740 38.880 26.140

 13 izd0 2 17.375 8.6479 6.1150 .49772 11.260 23.490 12.230

 40 izd1 18 32.674 11.566 2.7262 .35398 18.500 57.470 38.970

 67 izd2 18 39.324 11.196 2.6390 .28472 27.020 67.690 40.670

 94 izd3 9 45.081 7.1701 2.3900 .15905 35.300 56.420 21.120

 121 izd4 9 48.486 8.0586 2.6862 .16621 36.650 60.170 23.520

 148 izd5 5 51.936 7.3663 3.2943 .14183 42.930 60.070 17.140

 175 izd6 2 55.440 12.756 9.0200 .23009 46.420 64.460 18.040

 202 izd7 0

 229 izd8 0

 256 izd9 19 43.121 11.548 2.6492 .26779 18.890 67.430 48.540

 14 ism0 2 25.075 9.9207 7.0150 .39564 18.060 32.090 14.030

 41 ism1 16 19.428 7.0617 1.7654 .36348 7.0200 30.200 23.180

 68 ism2 18 23.761 5.7375 1.3524 .24147 12.340 35.950 23.610

 95 ism3 9 27.048 5.4905 1.8302 .20299 19.820 35.990 16.170

 122 ism4 9 28.280 5.1347 1.7116 .18157 22.980 37.670 14.690

 149 ism5 5 29.516 3.9994 1.7886 .13550 25.220 36.090 10.870

 176 ism6 2 28.525 2.0577 1.4550 .07214 27.070 29.980 2.9100

 203 ism7 0

 230 ism8 0

 257 ism9 19 27.346 6.9131 1.5860 .25280 8.1300 35.520 27.390

 15 izm0 2 29.445 14.545 10.285 .49398 19.160 39.730 20.570

 42 izm1 16 34.914 16.757 4.1892 .47994 11.600 70.430 58.830

 69 izm2 17 42.056 15.164 3.6778 .36056 24.110 87.670 63.560

 96 izm3 9 47.191 13.019 4.3396 .27588 30.040 77.700 47.660

 123 izm4 9 50.382 9.9108 3.3036 .19671 34.730 65.400 30.670

 150 izm5 5 53.678 9.5213 4.2580 .17738 44.420 67.150 22.730

 177 izm6 2 67.620 17.706 12.520 .26184 55.100 80.140 25.040

 204 izm7 0

 231 izm8 0

 258 izm9 19 45.087 15.460 3.5468 .34290 10.740 79.630 68.890

 16 idz0 16 408.09 64.338 16.085 .15766 268.83 532.84 264.01

 43 idz1 3 428.54 64.107 37.012 .14959 374.97 499.57 124.60

 70 idz2 2 419.08 62.282 44.040 .14862 375.04 463.12 88.080

 97 idz3 0

 124 idz4 0

 151 idz5 0

 178 idz6 0

 205 idz7 0

 232 idz8 0

 259 idz9 1 464.16 0.0000 0.0000 0.0000 464.16 464.16 0.0000

 17 id0 3 371.88 34.456 19.893 .09265 332.15 393.62 61.470

 44 id1 15 307.15 42.389 10.945 .13801 217.86 361.91 144.05

 71 id2 16 296.72 37.677 9.4194 .12698 221.12 347.10 125.98

 98 id3 9 306.56 37.375 12.458 .12192 236.68 352.81 116.13

 125 id4 9 311.45 42.988 14.329 .13803 237.23 376.13 138.90

 152 id5 5 318.26 31.445 14.063 .09880 281.96 347.51 65.550

 179 id6 2 302.71 45.806 32.390 .15132 270.32 335.10 64.780

 206 id7 0

 233 id8 0

 260 id9 18 303.18 42.772 10.082 .14108 219.02 381.43 162.41

 18 ges0 19 531.13 84.211 19.319 .15855 364.46 698.46 334.00

 45 ges1 19 592.38 112.61 25.835 .19010 256.10 769.83 513.73

 72 ges2 19 623.84 108.77 24.953 .17435 310.19 816.44 506.25

 99 ges3 9 622.43 50.465 16.822 .08108 558.93 713.23 154.30

 126 ges4 9 675.41 95.434 31.811 .14130 557.10 820.81 263.71

 153 ges5 5 712.23 82.969 37.105 .11649 585.75 811.21 225.46

 180 ges6 2 736.38 80.186 56.700 .10889 679.68 793.08 113.40

 207 ges7 0

 234 ges8 0

 261 ges9 20 675.32 134.03 29.971 .19848 274.95 837.13 562.18

 19 sges0 19 95.972 30.246 6.9388 .31515 61.020 180.76 119.74

 46 sges1 19 145.43 26.976 6.1887 .18550 104.59 191.73 87.140

 73 sges2 19 150.97 22.395 5.1377 .14834 116.70 196.33 79.630

 100 sges3 9 160.74 22.288 7.4294 .13866 136.65 204.78 68.130

 127 sges4 9 157.46 21.960 7.3200 .13946 136.68 195.15 58.470

 154 sges5 5 154.54 12.362 5.5286 .08000 143.28 172.88 29.600

 181 sges6 2 166.07 4.2921 3.0350 .02585 163.03 169.10 6.0700

 208 sges7 0

 235 sges8 0

 262 sges9 20 151.84 24.166 5.4036 .15916 109.22 197.56 88.340

 20 dz\_sb0 19 411.84 66.938 15.357 .16254 268.83 532.84 264.01

 47 dz\_sb1 19 406.26 102.02 23.406 .25113 64.550 509.58 445.03

 74 dz\_sb2 19 414.81 95.007 21.796 .22904 90.360 498.70 408.34

 101 dz\_sb3 9 452.24 53.317 17.772 .11789 351.08 510.37 159.29

 128 dz\_sb4 9 463.74 60.647 20.216 .13078 358.62 539.28 180.66

 155 dz\_sb5 5 478.42 47.633 21.302 .09956 421.74 521.97 100.23

 182 dz\_sb6 2 481.70 73.178 51.745 .15192 429.95 533.44 103.49

 209 dz\_sb7 0

 236 dz\_sb8 0

 263 dz\_sb9 20 431.32 99.738 22.302 .23124 105.38 558.56 453.18

 21 i\_zb0 6 15.607 26.309 10.740 1.6857 0.0000 63.220 63.220

 48 i\_zb1 18 63.708 25.984 6.1245 .40786 20.620 115.16 94.540

 75 i\_zb2 18 79.044 27.321 6.4396 .34564 27.670 150.00 122.33

 102 i\_zb3 9 92.272 19.559 6.5196 .21197 65.340 134.12 68.780

 129 i\_zb4 9 98.867 17.898 5.9659 .18103 71.380 125.57 54.190

 156 i\_zb5 5 105.61 16.684 7.4611 .15797 88.320 127.22 38.900

 183 i\_zb6 2 123.06 30.462 21.540 .24754 101.52 144.60 43.080

 210 i\_zb7 0

 237 i\_zb8 0

 264 i\_zb9 19 88.209 26.547 6.0904 .30096 29.630 147.06 117.43

 22 inf0 7 25.679 47.510 17.957 1.8502 0.0000 121.53 121.53

 49 inf1 19 96.108 40.188 9.2197 .41815 10.010 166.57 156.56

 76 inf2 19 120.83 38.757 8.8915 .32075 18.340 192.82 174.48

 103 inf3 9 145.69 19.430 6.4767 .13337 114.40 177.40 63.000

 130 inf4 9 152.30 20.014 6.6714 .13142 121.40 173.17 51.770

 157 inf5 5 160.16 17.008 7.6064 .10620 139.78 174.63 34.850

 184 inf6 2 178.99 27.372 19.355 .15293 159.63 198.34 38.710

 211 inf7 0

 238 inf8 0

 265 inf9 20 135.25 44.370 9.9213 .32805 20.340 203.33 182.99

 23 ps\_rel0 18 17.235 2.3821 .56147 .13821 11.363 20.457 9.0941

 50 ps\_rel1 19 18.911 3.2957 .75608 .17427 15.228 31.246 16.017

 77 ps\_rel2 19 17.173 2.8624 .65668 .16668 14.413 26.316 11.903

 104 ps\_rel3 9 17.250 1.8453 .61512 .10698 14.672 19.603 4.9309

 131 ps\_rel4 9 15.552 2.0834 .69445 .13396 12.433 19.228 6.7956

 158 ps\_rel5 5 14.153 1.4748 .65956 .10421 12.897 16.521 3.6242

 185 ps\_rel6 2 15.054 1.8020 1.2742 .11970 13.780 16.328 2.5484

 212 ps\_rel7 0

 239 ps\_rel8 0

 266 ps\_rel9 20 15.291 2.9558 .66094 .19331 12.785 26.398 13.613

 24 s\_rel0 18 22.366 3.9169 .92322 .17513 13.500 28.261 14.762

 51 s\_rel1 19 31.444 22.554 5.1743 .71730 20.629 123.97 103.34

 78 s\_rel2 19 28.192 15.316 3.5137 .54327 19.147 90.339 71.191

 105 s\_rel3 9 23.933 3.5218 1.1739 .14715 19.073 29.790 10.716

 132 s\_rel4 9 22.596 2.6601 .88670 .11772 19.078 26.384 7.3056

 159 s\_rel5 5 21.002 1.6496 .73773 .07855 18.401 22.946 4.5451

 186 s\_rel6 2 23.149 3.7655 2.6626 .16266 20.487 25.812 5.3252

 213 s\_rel7 0

 240 s\_rel8 0

 267 s\_rel9 20 25.135 10.496 2.3469 .41757 19.720 68.875 49.155

 25 pz\_r0 18 5.1635 2.0452 .48205 .39608 1.8497 9.2853 7.4356

 52 pz\_r1 19 13.779 9.3213 2.1384 .67648 4.8429 43.549 38.707

 79 pz\_r2 19 17.055 10.365 2.3778 .60773 5.3265 44.553 39.227

 106 pz\_r3 9 10.176 5.1604 1.7201 .50713 6.5927 22.622 16.029

 133 pz\_r4 9 15.560 6.2185 2.0728 .39964 7.8924 25.340 17.448

 160 pz\_r5 5 18.340 7.1584 3.2013 .39031 11.479 26.208 14.729

 187 pz\_r6 2 19.686 1.0292 .72779 .05228 18.958 20.414 1.4556

 214 pz\_r7 0

 241 pz\_r8 0

 268 pz\_r9 20 21.576 4.5885 1.0260 .21267 12.054 35.276 23.222

 26 isd\_r0 2 2.7414 1.7001 1.2022 .62017 1.5393 3.9436 2.4044

 53 isd\_r1 19 3.3935 1.0730 .24616 .31620 1.3463 5.5994 4.2530

 80 isd\_r2 19 3.8459 .82103 .18836 .21348 2.4771 5.8996 3.4225

 107 isd\_r3 9 4.2309 .58326 .19442 .13786 3.2526 4.7995 1.5469

 134 isd\_r4 9 3.7211 .54329 .18110 .14600 2.7823 4.2655 1.4832

 161 isd\_r5 5 3.5156 .39930 .17857 .11358 3.0639 3.9658 .90189

 188 isd\_r6 2 3.7518 .54929 .38841 .14641 3.3633 4.1402 .77681

 215 isd\_r7 0

 242 isd\_r8 0

 269 isd\_r9 20 3.8701 1.0192 .22790 .26335 2.6377 7.4486 4.8110

 27 izd\_r0 2 2.6574 1.2400 .87681 .46663 1.7806 3.5342 1.7536

 54 izd\_r1 18 5.6955 1.9160 .45162 .33641 3.2422 9.1092 5.8670

 81 izd\_r2 18 6.5196 1.9324 .45547 .29640 3.8515 10.720 6.8688

 108 izd\_r3 9 7.2446 1.0117 .33725 .13965 5.9946 8.8987 2.9041

 135 izd\_r4 9 7.2095 .99035 .33012 .13737 5.6950 9.1072 3.4121

 162 izd\_r5 5 7.3131 .86338 .38611 .11806 6.4226 8.5835 2.1609

 189 izd\_r6 2 7.4791 .91792 .64907 .12273 6.8300 8.1282 1.2981

 216 izd\_r7 0

 243 izd\_r8 0

 270 izd\_r9 19 6.5553 1.7683 .40566 .26974 3.9113 11.999 8.0873

 28 ism\_r0 2 3.8416 1.3949 .98636 .36311 2.8553 4.8280 1.9727

 55 ism\_r1 16 3.3451 .93142 .23286 .27845 1.2011 4.5147 3.3136

 82 ism\_r2 18 3.9205 .91366 .21535 .23304 1.7175 5.4562 3.7387

 109 ism\_r3 9 4.3414 .76784 .25595 .17687 3.1345 5.4828 2.3484

 136 ism\_r4 9 4.1975 .54331 .18110 .12943 3.4784 4.9788 1.5003

 163 ism\_r5 5 4.1668 .54467 .24358 .13072 3.6038 4.9716 1.3678

 190 ism\_r6 2 3.9118 .70489 .49844 .18020 3.4134 4.4102 .99687

 217 ism\_r7 0

 244 ism\_r8 0

 271 ism\_r9 19 4.1423 1.0894 .24992 .26300 1.6828 7.4123 5.7295

 29 izm\_r0 2 4.5030 2.0852 1.4744 .46306 3.0285 5.9774 2.9488

 56 izm\_r1 16 6.0086 2.5302 .63255 .42110 2.3230 11.848 9.5254

 83 izm\_r2 17 6.9379 2.2802 .55302 .32865 4.4626 13.901 9.4386

 110 izm\_r3 9 7.5686 1.9458 .64859 .25709 5.1005 12.255 7.1546

 137 izm\_r4 9 7.4888 1.3050 .43499 .17426 5.7122 9.8979 4.1857

 164 izm\_r5 5 7.5774 1.3348 .59693 .17615 6.2366 9.5951 3.3585

 191 izm\_r6 2 9.1053 1.4130 .99912 .15518 8.1062 10.104 1.9982

 218 izm\_r7 0

 245 izm\_r8 0

 272 izm\_r9 19 6.7762 2.1116 .48444 .31162 2.2229 11.468 9.2447

 30 idz\_r0 16 78.036 3.3612 .84029 .04307 72.178 84.171 11.993

 57 idz\_r1 3 65.544 1.4224 .82120 .02170 64.583 67.178 2.5950

 84 idz\_r2 2 57.385 7.3266 5.1807 .12768 52.204 62.566 10.361

 111 idz\_r3 0

 138 idz\_r4 0

 165 idz\_r5 0

 192 idz\_r6 0

 219 idz\_r7 0

 246 idz\_r8 0

 273 idz\_r9 1 62.200 0.0000 0.0000 0.0000 62.200 62.200 0.0000

 31 id\_r0 3 65.682 9.1836 5.3021 .13982 59.216 76.193 16.977

 58 id\_r1 15 51.040 3.7470 .96747 .07341 44.829 56.947 12.119

 85 id\_r2 16 47.248 4.6451 1.1613 .09831 40.087 53.826 13.738

 112 id\_r3 9 49.189 3.7591 1.2530 .07642 40.192 53.226 13.034

 139 id\_r4 9 46.270 3.9831 1.3277 .08608 40.315 51.445 11.130

 166 id\_r5 5 44.934 4.3640 1.9516 .09712 40.178 49.654 9.4761

 193 id\_r6 2 41.012 1.7545 1.2406 .04278 39.771 42.253 2.4812

 220 id\_r7 0

 247 id\_r8 0

 274 id\_r9 17 43.703 4.5509 1.1037 .10413 38.699 59.202 20.503

 32 sges\_r0 19 17.900 3.5740 .81993 .19967 11.363 27.194 15.832

 59 sges\_r1 19 25.122 4.9465 1.1348 .19690 17.917 40.840 22.923

 86 sges\_r2 19 24.733 4.4974 1.0318 .18184 17.579 37.622 20.043

 113 sges\_r3 9 25.822 2.7339 .91131 .10588 21.553 28.878 7.3256

 140 sges\_r4 9 23.471 2.7650 .92166 .11780 19.345 28.044 8.6991

 167 sges\_r5 5 21.835 1.9877 .88893 .09103 20.473 25.306 4.8330

 194 sges\_r6 2 22.718 3.0561 2.1610 .13453 20.557 24.879 4.3220

 221 sges\_r7 0

 248 sges\_r8 0

 275 sges\_r9 20 23.096 4.5919 1.0268 .19882 17.310 41.258 23.948

 33 i\_zb\_r0 3 4.7735 4.7559 2.7458 .99630 0.0000 9.5116 9.5116

 60 i\_zb\_r1 18 11.036 4.0861 .96310 .37023 3.2543 19.373 16.119

 87 i\_zb\_r2 18 13.072 4.4220 1.0423 .33828 3.8515 23.785 19.934

 114 i\_zb\_r3 9 14.813 2.8507 .95024 .19245 11.095 21.154 10.059

 141 i\_zb\_r4 9 14.698 2.2853 .76176 .15548 11.407 19.005 7.5978

 168 i\_zb\_r5 5 14.890 2.1952 .98173 .14742 12.659 18.179 5.5194

 195 i\_zb\_r6 2 16.584 2.3309 1.6482 .14055 14.936 18.233 3.2964

 222 i\_zb\_r7 0

 249 i\_zb\_r8 0

 276 i\_zb\_r9 19 13.331 3.7776 .86663 .28336 6.1341 23.466 17.332

 34 inf\_r0 3 9.1622 9.1416 5.2779 .99775 0.0000 18.283 18.283

 61 inf\_r1 19 16.666 6.5257 1.4971 .39156 1.3463 28.023 26.676

 88 inf\_r2 19 19.944 6.5318 1.4985 .32751 2.4771 30.575 28.098

 115 inf\_r3 9 23.386 2.3177 .77257 .09911 19.426 27.979 8.5533

 142 inf\_r4 9 22.617 1.5852 .52839 .07009 19.878 25.266 5.3881

 169 inf\_r5 5 22.573 1.8701 .83632 .08285 20.200 24.928 4.7284

 196 inf\_r6 2 24.248 1.0767 .76135 .04440 23.487 25.009 1.5227

 223 inf\_r7 0

 250 inf\_r8 0

 277 inf\_r9 20 20.470 6.7460 1.5085 .32955 2.7257 38.327 35.601

 379 dges0 19 503.28 80.411 18.448 .15978 339.24 649.47 310.23

 380 dges1 19 515.93 115.56 26.511 .22398 144.57 636.55 491.98

 381 dges2 19 519.83 104.45 23.963 .20093 171.99 623.73 451.74

 382 dges3 9 559.57 60.374 20.125 .10789 455.66 650.19 194.53

 383 dges4 9 567.77 69.301 23.100 .12206 445.29 664.91 219.62

 384 dges5 5 578.42 52.007 23.258 .08991 518.51 624.82 106.31

 385 dges6 2 591.83 71.976 50.895 .12162 540.93 642.72 101.79

 386 dges7 0

 387 dges8 0

 388 dges9 20 531.71 111.96 25.036 .21058 177.96 682.40 504.44

 279 infm0 2 50.150 19.841 14.030 .39564 36.120 64.180 28.060

 280 infm1 16 38.856 14.123 3.5308 .36348 14.040 60.400 46.360

 281 infm2 18 47.521 11.475 2.7047 .24147 24.680 71.900 47.220

 282 infm3 9 54.096 10.981 3.6604 .20299 39.640 71.980 32.340

 283 infm4 9 56.560 10.269 3.4231 .18157 45.960 75.340 29.380

 284 infm5 5 59.032 7.9987 3.5771 .13550 50.440 72.180 21.740

 285 infm6 2 57.050 4.1154 2.9100 .07214 54.140 59.960 5.8200

 286 infm7 0

 287 infm8 0

 288 infm9 19 54.692 13.826 3.1719 .25280 16.260 71.040 54.780

 289 infd0 2 35.950 23.292 16.470 .64790 19.480 52.420 32.940

 290 infd1 19 38.782 11.100 2.5465 .28621 18.120 57.720 39.600

 291 infd2 19 46.874 8.3575 1.9173 .17830 32.660 60.660 28.000

 292 infd3 9 52.733 9.1788 3.0596 .17406 41.240 68.120 26.880

 293 infd4 9 50.296 10.714 3.5714 .21302 36.760 65.580 28.820

 294 infd5 5 50.048 8.4603 3.7836 .16904 44.020 64.340 20.320

 295 infd6 2 54.810 2.0789 1.4700 .03793 53.340 56.280 2.9400

 296 infd7 0

 297 infd8 0

 298 infd9 20 50.949 11.653 2.6058 .22873 25.480 77.760 52.280

 389 STps 20 .10244 .44074 .09855 4.3023 -.72635 .94844 1.6748

 390 STpz 20 3.5175 1.5044 .33639 .42769 1.1825 6.1917 5.0092

 391 STisd 20 .24767 .29963 .06700 1.2098 -.36397 .85278 1.2168

 392 STizd 19 .41392 .47767 .10959 1.1540 -.72621 1.1859 1.9121

 393 STism 19 .31048 .36442 .08360 1.1737 -.40273 1.2963 1.6990

 394 STizm 18 .44786 .50214 .11836 1.1212 -.45150 1.6454 2.0969

 395 STidz 3 -3.8165 .56340 .32528 -.14762 -4.3950 -3.2695 1.1255

 396 STid 17 -.43881 1.0030 .24327 -2.2858 -2.6450 1.4015 4.0465

 397 STges 20 3.9876 2.7644 .61814 .69326 -4.2186 7.5714 11.790

 398 STsges 20 1.2304 .77398 .17307 .62903 -.28135 2.7688 3.0502

 399 STdz\_sb 20 .36759 2.0736 .46367 5.6411 -6.9899 2.4539 9.4438

 400 STi\_zb 19 1.2475 1.0851 .24893 .86980 -.71585 3.2989 4.0147

 401 STinf 20 2.0636 1.7793 .39786 .86223 -1.4825 5.1589 6.6414

 402 STps\_rel 20 -.08023 .11444 .02559 -1.4265 -.28924 .26502 .55426

 403 STs\_rel 20 .04039 .31892 .07131 7.8965 -.27108 1.2871 1.5582

 404 STpz\_r 20 .48786 .21698 .04852 .44477 .23418 .99384 .75966

 405 STisd\_r 20 .02146 .04762 .01065 2.2192 -.04506 .11447 .15954

 406 STizd\_r 19 .03995 .08885 .02038 2.2239 -.18255 .20404 .38659

 407 STism\_r 19 .03412 .06733 .01545 1.9731 -.05901 .19337 .25239

 408 STizm\_r 18 .04332 .08869 .02090 2.0471 -.06623 .23450 .30072

 409 STidz\_r 3 -1.1389 .46445 .26815 -.40782 -1.5502 -.63518 .91502

 410 STid\_r 17 -.36461 .21140 .05127 -.57982 -.86967 -.03916 .83051

 411 STsges\_r 20 .09107 .19685 .04402 2.1616 -.23723 .77115 1.0084

 412 STi\_zb\_r 19 .11567 .20403 .04681 1.7638 -.08151 .79413 .87563

 413 STinf\_r 20 .17689 .31973 .07149 1.8075 -.18558 1.3003 1.4858

 414 STdges 20 .47005 2.1068 .47110 4.4822 -6.9082 2.5680 9.4762

 415 STinfm 19 .62096 .72883 .16721 1.1737 -.80547 2.5925 3.3980

 416 STinfd 20 .49534 .59926 .13400 1.2098 -.72794 1.7056 2.4335

 417 STpsr2 20 .02583 .17782 .03976 6.8854 -.17178 .69706 .86884

 418 STidr2 17 -.16024 .17480 .04239 -1.0909 -.45418 .16972 .62390

 419 STisdr2 20 .04122 .05515 .01233 1.3379 -.07829 .15309 .23138

 420 STismr2 19 .06007 .08277 .01899 1.3778 -.08885 .25253 .34138

 421 STsgesr2 20 .26166 .32271 .07216 1.2333 -.07710 1.4956 1.5727

 422 STinfr2 20 .43071 .51130 .11433 1.1871 -.31938 2.0505 2.3699

 423 STinfmr2 19 .12015 .16555 .03798 1.3778 -.17770 .50507 .68276

 424 STinfdr2 20 .08244 .11029 .02466 1.3379 -.15659 .30618 .46277

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STps \* ( 389) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.05000)

 0.90000) \* \*

 0.75000)

 0.60000) \*\*

 0.45000)

 0.30000) N \* \*

 0.15000) M\*\* M M\*

 0.00000) N \*

 -0.15000)M\*

 -0.30000) \*\*

 -0.45000) \* \*

 -0.60000)

 -0.75000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.122 0.142 0.026 0.249 0.178 0.130

 STD.DEV. 0.002 0.060 0.721 0.921 0.129 0.422

 S. E. M. 0.001 0.034 0.361 0.652 0.091 0.160

 MAXIMUM -0.121 0.201 0.672 0.901 0.269 0.948

 MINIMUM -0.123 0.082 -0.726 -0.402 0.087 -0.326

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.088

 | pferd 0.1805 4 0.0451 0.15 0.9586 | STD. DEV. 0.467

 | ERROR 2.4331 8 0.3041 | S. E. M. 0.129

 |--------------------------------------------------------------------------| MAXIMUM 0.901

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.726

 | WELCH 4, 3 10.25 0.0427 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 2 0.16 0.9386 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 55.19 0.0000 | ROBUST S.D. 0.456

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STpz \* ( 390) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 6.50000)

 6.00000) \*\*

 5.50000) \* \*

 5.00000) N \*

 4.50000) \*

 4.00000) \*\*

 3.50000) \* \* N N

 3.00000)\* M \*

 2.50000)N \* \*

 2.00000) \* M\*

 1.50000)\*

 1.00000) \*

 0.50000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 2.329 3.040 5.230 3.359 2.021 3.557

 STD.DEV. 0.898 0.311 1.362 1.845 0.103 1.486

 S. E. M. 0.635 0.179 0.681 1.305 0.073 0.562

 MAXIMUM 2.964 3.284 6.192 4.664 2.093 5.390

 MINIMUM 1.695 2.690 3.259 2.054 1.948 1.183

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 3.496

 | pferd 19.7606 4 4.9402 3.96 0.0464 | STD. DEV. 1.574

 | ERROR 9.9817 8 1.2477 | S. E. M. 0.437

 |--------------------------------------------------------------------------| MAXIMUM 6.192

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 1.695

 | WELCH 4, 3 7.26 0.0676 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 3 4.01 0.1417 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 2.91 0.0927 | ROBUST S.D. 1.673

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 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STisd \* ( 391) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.960000)

 0.840000) \* \*\*

 0.720000)

 0.600000)

 0.480000) N

 0.360000) \*\*

 0.240000) N \*\* \* M M\*

 0.120000)M \* M\* \* \*

 0.000000)\* \*

 -.120000)

 -.240000)

 -.360000) \*

 -.480000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.067 0.287 0.156 0.533 0.182 0.272

 STD.DEV. 0.040 0.117 0.070 0.452 0.106 0.441

 S. E. M. 0.028 0.067 0.035 0.320 0.075 0.167

 MAXIMUM 0.096 0.356 0.241 0.853 0.257 0.850

 MINIMUM 0.039 0.152 0.098 0.213 0.107 -0.364

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.235

 | pferd 0.2722 4 0.0681 2.10 0.1728 | STD. DEV. 0.210

 | ERROR 0.2594 8 0.0324 | S. E. M. 0.058

 |--------------------------------------------------------------------------| MAXIMUM 0.853

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.039

 | WELCH 4, 3 1.94 0.3070 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 1 1.38 0.5580 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 52.15 0.0000 | ROBUST S.D. 0.178

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STizd \* ( 392) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.44000)

 1.26000) \*

 1.08000) \*

 0.90000) M

 0.72000) \* \* \*

 0.54000) \*\* M\*\*

 0.36000) \*

 0.18000) N M\*

 0.00000)M\* M

 -0.18000) \*

 -0.36000)

 -0.54000)

 -0.72000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.043 0.907 0.248 -0.031 0.173 0.535

 STD.DEV. 0.066 0.221 0.654 0.000 0.049 0.445

 S. E. M. 0.047 0.128 0.327 0.000 0.035 0.168

 MAXIMUM 0.090 1.114 0.679 -0.031 0.208 1.186

 MINIMUM -0.003 0.674 -0.726 -0.031 0.138 -0.265

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.343

 | pferd 1.3678 4 0.3419 1.72 0.2482 | STD. DEV. 0.501

 | ERROR 1.3878 7 0.1983 | S. E. M. 0.144

 |--------------------------------------------------------------------------| MAXIMUM 1.114

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.726

 | WELCH 4, 6 7.56 0.0159 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 4 4.18 0.0976 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 2.32 0.1566 | ROBUST S.D. 0.520

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STism \* ( 393) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.35000) \*

 1.20000)

 1.05000)

 0.90000) \*

 0.75000)

 0.60000) \*

 0.45000) \* \* \*\*

 0.30000)\* N N M N

 0.15000)M \* \* M \* \*\*\*

 0.00000)

 -0.15000) \*

 -0.30000)

 -0.45000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.209 0.366 0.331 0.193 0.253 0.337

 STD.DEV. 0.127 0.251 0.453 0.000 0.078 0.512

 S. E. M. 0.090 0.145 0.226 0.000 0.055 0.193

 MAXIMUM 0.298 0.588 0.945 0.193 0.308 1.296

 MINIMUM 0.119 0.093 -0.082 0.193 0.198 -0.403

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.295

 | pferd 0.0494 4 0.0123 0.11 0.9738 | STD. DEV. 0.272

 | ERROR 0.7632 7 0.1090 | S. E. M. 0.078

 |--------------------------------------------------------------------------| MAXIMUM 0.945

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.082

 | WELCH 4, 6 0.18 0.9417 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 5 0.24 0.9018 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 1.56 0.2847 | ROBUST S.D. 0.256

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STizm \* ( 394) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.62000) \*

 1.44000)

 1.26000)

 1.08000) \*

 0.90000) \* \*

 0.72000) M \*

 0.54000) \* N M

 0.36000)\* \* M \*

 0.18000)N \* N

 0.00000)\* \* \* \*

 -0.18000)

 -0.36000)

 -0.54000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.094 0.753 0.556 0.306 0.191 0.450

 STD.DEV. 0.253 0.145 0.738 0.000 0.206 0.596

 S. E. M. 0.179 0.084 0.369 0.000 0.146 0.243

 MAXIMUM 0.273 0.902 1.645 0.306 0.337 1.131

 MINIMUM -0.085 0.613 0.012 0.306 0.046 -0.452

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 1)

 CASES INCL. 2 3 4 1 2 6

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.447

 | pferd 0.7284 4 0.1821 0.72 0.6071 | STD. DEV. 0.478

 | ERROR 1.7807 7 0.2544 | S. E. M. 0.138

 |--------------------------------------------------------------------------| MAXIMUM 1.645

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.085

 | WELCH 4, 5 3.20 0.1167 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 5 1.56 0.3153 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 1.94 0.2079 | ROBUST S.D. 0.462

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STidz \* ( 395) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 -3.20000)

 -3.30000) M

 -3.40000)

 -3.50000)

 -3.60000)

 -3.70000)

 -3.80000) M

 -3.90000)

 -4.00000)

 -4.10000)

 -4.20000)

 -4.30000)

 -4.40000)M

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -4.395 0.000 0.000 -3.270 0.000 -3.785

 STD.DEV. 0.000 0.000 0.000 0.000 0.000 0.000

 S. E. M. 0.000 0.000 0.000 0.000 0.000 0.000

 MAXIMUM -4.395 0.000 0.000 -3.270 0.000 -3.785

 MINIMUM -4.395 0.000 0.000 -3.270 0.000 -3.785

 CASES EXCL. ( 1) ( 3) ( 4) ( 1) ( 2) ( 6)

 CASES INCL. 1 0 0 1 0 1

 \*\*\* WARNING \*\*\* AN ANOVA WILL NOT BE COMPUTED SINCE THERE IS AT MOST ONE GROUP WITH VARIANCE GREATER THAN ZERO. THIS RESTRICTION

 ALSO APPLIES WHEN THERE IS ONLY ONE CASE PER GROUP.

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STid \* ( 396) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.40000) \*

 1.05000)

 0.70000) \*

 0.35000) \* \* \*

 0.00000)\* \* M

 -0.35000)M N \* N

 -0.70000) \* M

 -1.05000) N \*

 -1.40000) \*

 -1.75000) \*\*

 -2.10000)

 -2.45000)

 -2.80000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.263 -0.389 -0.944 -0.789 0.138 -0.311

 STD.DEV. 0.264 0.640 1.342 0.000 0.350 1.274

 S. E. M. 0.187 0.453 0.671 0.000 0.247 0.520

 MAXIMUM -0.076 0.064 0.476 -0.789 0.386 1.402

 MINIMUM -0.449 -0.842 -2.645 -0.789 -0.109 -1.635

 CASES EXCL. ( 0) ( 1) ( 0) ( 1) ( 0) ( 1)

 CASES INCL. 2 2 4 1 2 6

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.508

 | pferd 1.8235 4 0.4559 0.46 0.7666 | STD. DEV. 0.885

 | ERROR 6.0024 6 1.0004 | S. E. M. 0.267

 |--------------------------------------------------------------------------| MAXIMUM 0.476

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -2.645

 | WELCH 4, 4 0.58 0.6951 | CASES EXCLUDED ( 9)

 | BROWN-FORSYTHE 4, 5 1.11 0.4432 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 6 1.95 0.2209 | ROBUST S.D. 0.841

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STges \* ( 397) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 8.00000) \*

 7.00000) \* \*

 6.00000) \* M \*\*\*

 5.00000) \* M

 4.00000)

 3.00000)\* \* M\* \*

 2.00000)M N \* M

 1.00000) \*

 0.00000)

 -1.00000)

 -2.00000)

 -3.00000)

 -4.00000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 2.302 2.175 5.808 2.249 3.155 4.940

 STD.DEV. 0.886 5.539 2.303 0.485 0.007 2.013

 S. E. M. 0.627 3.198 1.152 0.343 0.005 0.761

 MAXIMUM 2.928 5.533 7.571 2.592 3.160 7.360

 MINIMUM 1.675 -4.219 2.476 1.906 3.149 1.452

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 3.474

 | pferd 32.8027 4 8.2007 0.84 0.5380 | STD. DEV. 3.043

 | ERROR 78.3025 8 9.7878 | S. E. M. 0.844

 |--------------------------------------------------------------------------| MAXIMUM 7.571

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -4.219

 | WELCH 4, 3 2.08 0.2863 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 3 1.17 0.4685 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 5.38 0.0211 | ROBUST S.D. 2.835

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STsges \* ( 398) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 3.00000)

 2.70000) \*

 2.40000) \*\*

 2.10000)

 1.80000) \* \*

 1.50000) M\* M

 1.20000) N \* M\*\*\*

 0.90000)\* N \*

 0.60000)M \* \*

 0.30000)

 0.00000) \*

 -0.30000) \*

 -0.60000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.644 1.595 1.484 1.159 0.922 1.205

 STD.DEV. 0.237 0.161 1.279 0.915 0.308 0.804

 S. E. M. 0.167 0.093 0.640 0.647 0.218 0.304

 MAXIMUM 0.811 1.776 2.505 1.805 1.140 2.769

 MINIMUM 0.476 1.466 -0.281 0.512 0.705 0.087

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 1.244

 | pferd 1.5431 4 0.3858 0.52 0.7250 | STD. DEV. 0.790

 | ERROR 5.9494 8 0.7437 | S. E. M. 0.219

 |--------------------------------------------------------------------------| MAXIMUM 2.505

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.281

 | WELCH 4, 3 4.22 0.1334 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 4 0.78 0.5941 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 2.34 0.1422 | ROBUST S.D. 0.823

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 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STdz\_sb \* ( 399) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 2.40000) \* \*\*\*

 1.60000) \* \* N

 0.80000) M M\* \*\*

 0.00000)M\* \*\* \* \*\*

 -0.80000) N

 -1.60000) N

 -2.40000) \*

 -3.20000)

 -4.00000)

 -4.80000)

 -5.60000)

 -6.40000)

 -7.20000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.094 -1.007 0.553 -1.359 0.956 1.254

 STD.DEV. 0.013 5.186 0.749 1.409 0.224 1.008

 S. E. M. 0.009 2.994 0.375 0.996 0.158 0.381

 MAXIMUM 0.104 2.187 1.453 -0.363 1.115 2.454

 MINIMUM 0.085 -6.990 -0.326 -2.355 0.798 0.095

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.110

 | pferd 9.6491 4 2.4123 0.34 0.8467 | STD. DEV. 2.365

 | ERROR 57.4976 8 7.1872 | S. E. M. 0.656

 |--------------------------------------------------------------------------| MAXIMUM 2.187

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -6.990

 | WELCH 4, 3 4.88 0.1117 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 2 0.42 0.7898 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 9.25 0.0043 | ROBUST S.D. 1.926

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STi\_zb \* ( 400) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 3.50000)

 3.15000) \*\*

 2.80000)

 2.45000) \* \*

 2.10000) M \*

 1.75000) N

 1.40000)\* \* \*

 1.05000) M\*

 0.70000)N \*\*

 0.35000) M M\* \*

 0.00000)\*

 -0.35000)

 -0.70000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.683 1.953 1.919 0.276 0.364 1.114

 STD.DEV. 1.092 0.379 1.463 0.000 0.157 1.057

 S. E. M. 0.772 0.219 0.732 0.000 0.111 0.400

 MAXIMUM 1.455 2.297 3.299 0.276 0.475 2.318

 MINIMUM -0.089 1.547 0.538 0.276 0.254 -0.716

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 1.326

 | pferd 6.3649 4 1.5912 1.41 0.3251 | STD. DEV. 1.140

 | ERROR 7.9258 7 1.1323 | S. E. M. 0.329

 |--------------------------------------------------------------------------| MAXIMUM 3.299

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.089

 | WELCH 4, 5 7.91 0.0217 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 4 2.50 0.1985 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 41.99 0.0001 | ROBUST S.D. 1.249

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STinf \* ( 401) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 6.00000)

 5.40000) \*

 4.80000) \*

 4.20000) \* \*

 3.60000) \* N \*

 3.00000) N

 2.40000)\* \*\*

 1.80000) M\*\*

 1.20000)N \*

 0.60000) M\* M\* \*

 0.00000)\*

 -0.60000)

 -1.20000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 1.228 2.779 3.830 0.767 0.799 1.718

 STD.DEV. 1.639 0.866 1.959 0.121 0.027 1.898

 S. E. M. 1.159 0.500 0.980 0.086 0.019 0.718

 MAXIMUM 2.387 3.759 5.159 0.853 0.818 4.244

 MINIMUM 0.070 2.116 0.952 0.681 0.780 -1.483

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 2.250

 | pferd 21.5202 4 5.3800 2.74 0.1051 | STD. DEV. 1.762

 | ERROR 15.7201 8 1.9650 | S. E. M. 0.489

 |--------------------------------------------------------------------------| MAXIMUM 5.159

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.070

 | WELCH 4, 3 3.78 0.1516 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 4 3.90 0.1080 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 2.43 0.1329 | ROBUST S.D. 1.902

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STps\_rel \* ( 402) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.300000)

 0.250000) \*

 0.200000)

 0.150000)

 0.100000) \*

 0.050000)

 0.000000) N \*

 -.050000)\* \* N M\* \*\*

 -.100000)M \* \*\* M\*

 -.150000) \* N \*

 -.200000) \*\*

 -.250000)

 -.300000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.080 -0.004 -0.144 -0.037 -0.046 -0.099

 STD.DEV. 0.018 0.235 0.099 0.174 0.020 0.078

 S. E. M. 0.013 0.136 0.049 0.123 0.014 0.029

 MAXIMUM -0.067 0.265 -0.073 0.087 -0.032 0.014

 MINIMUM -0.093 -0.166 -0.289 -0.160 -0.060 -0.205

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.070

 | pferd 0.0384 4 0.0096 0.45 0.7698 | STD. DEV. 0.132

 | ERROR 0.1705 8 0.0213 | S. E. M. 0.037

 |--------------------------------------------------------------------------| MAXIMUM 0.265

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.289

 | WELCH 4, 3 0.95 0.5383 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 4 0.51 0.7350 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 4.68 0.0305 | ROBUST S.D. 0.109

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 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STs\_rel \* ( 403) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.50000)

 1.35000) \*

 1.20000)

 1.05000)

 0.90000)

 0.75000)

 0.60000)

 0.45000)

 0.30000) N

 0.15000) \*\* \* \*

 0.00000)M\* \* N N M\* M\*\*

 -0.15000) \* \* \* \*\*\*

 -0.30000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.033 0.371 -0.024 0.046 -0.005 -0.033

 STD.DEV. 0.001 0.794 0.192 0.247 0.036 0.131

 S. E. M. 0.001 0.458 0.096 0.175 0.025 0.050

 MAXIMUM -0.032 1.287 0.150 0.221 0.021 0.205

 MINIMUM -0.034 -0.113 -0.271 -0.128 -0.030 -0.175

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.080

 | pferd 0.3397 4 0.0849 0.47 0.7541 | STD. DEV. 0.384

 | ERROR 1.4319 8 0.1790 | S. E. M. 0.107

 |--------------------------------------------------------------------------| MAXIMUM 1.287

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.271

 | WELCH 4, 3 0.32 0.8496 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 3 0.60 0.6881 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 8.10 0.0065 | ROBUST S.D. 0.289

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 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STpz\_r \* ( 404) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.05000)

 0.98000) \*

 0.91000)

 0.84000) \*

 0.77000) \*

 0.70000) M \*

 0.63000) N \*

 0.56000)

 0.49000) \* \* \*

 0.42000)\* \* \* M

 0.35000)N N \*\*

 0.28000)\* \* M

 0.21000) \* \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.322 0.655 0.685 0.379 0.245 0.452

 STD.DEV. 0.108 0.296 0.193 0.137 0.015 0.149

 S. E. M. 0.077 0.171 0.096 0.097 0.011 0.056

 MAXIMUM 0.398 0.994 0.835 0.475 0.256 0.666

 MINIMUM 0.245 0.451 0.405 0.282 0.234 0.237

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.507

 | pferd 0.4308 4 0.1077 2.72 0.1067 | STD. DEV. 0.250

 | ERROR 0.3170 8 0.0396 | S. E. M. 0.069

 |--------------------------------------------------------------------------| MAXIMUM 0.994

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.234

 | WELCH 4, 3 4.23 0.1327 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 5 3.62 0.0954 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 2.36 0.1405 | ROBUST S.D. 0.263

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STisd\_r \* ( 405) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.135000)

 0.120000) \*

 0.105000) \* \*

 0.090000) \*

 0.075000) N

 0.060000)

 0.045000) M

 0.030000) \*

 0.015000) M N

 0.000000)M\* \* M\*\*\* \* \*\*

 -.015000) \*

 -.030000) \*

 -.045000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.005 0.050 0.002 0.072 0.011 0.016

 STD.DEV. 0.000 0.049 0.003 0.060 0.015 0.062

 S. E. M. 0.000 0.028 0.002 0.043 0.011 0.024

 MAXIMUM -0.005 0.102 0.007 0.114 0.022 0.111

 MINIMUM -0.005 0.004 -0.000 0.029 0.001 -0.045

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.024

 | pferd 0.0107 4 0.0027 2.43 0.1329 | STD. DEV. 0.040

 | ERROR 0.0088 8 0.0011 | S. E. M. 0.011

 |--------------------------------------------------------------------------| MAXIMUM 0.114

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.005

 | WELCH 4, 3 4.10 0.1379 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 2 2.06 0.3519 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 5.66 0.0184 | ROBUST S.D. 0.039

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STizd\_r \* ( 406) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.245000)

 0.210000) \*

 0.175000) M

 0.140000) \* \*

 0.105000) \* \*

 0.070000) \*

 0.035000) \*\* M

 0.000000) N M M \*\*

 -.035000)M\* \* \*

 -.070000)

 -.105000)

 -.140000)

 -.175000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.021 0.173 -0.002 -0.010 -0.014 0.047

 STD.DEV. 0.002 0.028 0.123 0.000 0.010 0.056

 S. E. M. 0.002 0.016 0.061 0.000 0.007 0.021

 MAXIMUM -0.020 0.204 0.090 -0.010 -0.007 0.139

 MINIMUM -0.023 0.150 -0.183 -0.010 -0.022 -0.018

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.036

 | pferd 0.0755 4 0.0189 2.81 0.1105 | STD. DEV. 0.106

 | ERROR 0.0470 7 0.0067 | S. E. M. 0.030

 |--------------------------------------------------------------------------| MAXIMUM 0.204

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.183

 | WELCH 4, 5 25.04 0.0017 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 3 7.02 0.0706 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 2.44 0.1430 | ROBUST S.D. 0.105

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STism\_r \* ( 407) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.225000)

 0.200000) \*

 0.175000) \*

 0.150000)

 0.125000) \*

 0.100000)

 0.075000) N \*

 0.050000) \* \*

 0.025000)\* M M M N

 0.000000)M \* \* \* \*\*

 -.025000) \* \*

 -.050000) \*

 -.075000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.011 0.085 0.029 0.027 0.020 0.027

 STD.DEV. 0.005 0.098 0.067 0.000 0.012 0.081

 S. E. M. 0.004 0.057 0.033 0.000 0.008 0.030

 MAXIMUM 0.015 0.193 0.127 0.027 0.028 0.184

 MINIMUM 0.007 0.002 -0.022 0.027 0.012 -0.059

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.038

 | pferd 0.0092 4 0.0023 0.49 0.7439 | STD. DEV. 0.062

 | ERROR 0.0329 7 0.0047 | S. E. M. 0.018

 |--------------------------------------------------------------------------| MAXIMUM 0.193

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.022

 | WELCH 4, 5 0.51 0.7327 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 4 0.89 0.5435 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 2.21 0.1692 | ROBUST S.D. 0.058

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STizm\_r \* ( 408) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.270000)

 0.240000) \*

 0.210000) \*

 0.180000)

 0.150000) N

 0.120000) \* \*\*

 0.090000) \*

 0.060000) N \*

 0.030000) \* M N

 0.000000)\* \* \* \*

 -.030000)M M

 -.060000) \* \*\*

 -.090000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.024 0.146 0.050 0.042 -0.017 0.030

 STD.DEV. 0.018 0.081 0.107 0.000 0.026 0.085

 S. E. M. 0.013 0.047 0.054 0.000 0.018 0.035

 MAXIMUM -0.011 0.234 0.202 0.042 0.001 0.123

 MINIMUM -0.037 0.075 -0.049 0.042 -0.035 -0.066

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 1)

 CASES INCL. 2 3 4 1 2 6

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.050

 | pferd 0.0477 4 0.0119 1.71 0.2507 | STD. DEV. 0.094

 | ERROR 0.0487 7 0.0070 | S. E. M. 0.027

 |--------------------------------------------------------------------------| MAXIMUM 0.234

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.049

 | WELCH 4, 6 2.53 0.1483 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 6 3.55 0.0816 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 1.24 0.3771 | ROBUST S.D. 0.096

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STidz\_r \* ( 409) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 -0.56000)

 -0.64000) M

 -0.72000)

 -0.80000)

 -0.88000)

 -0.96000)

 -1.04000)

 -1.12000)

 -1.20000)M

 -1.28000)

 -1.36000)

 -1.44000)

 -1.52000) M

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -1.231 0.000 0.000 -0.635 0.000 -1.550

 STD.DEV. 0.000 0.000 0.000 0.000 0.000 0.000

 S. E. M. 0.000 0.000 0.000 0.000 0.000 0.000

 MAXIMUM -1.231 0.000 0.000 -0.635 0.000 -1.550

 MINIMUM -1.231 0.000 0.000 -0.635 0.000 -1.550

 CASES EXCL. ( 1) ( 3) ( 4) ( 1) ( 2) ( 6)

 CASES INCL. 1 0 0 1 0 1

 \*\*\* WARNING \*\*\* AN ANOVA WILL NOT BE COMPUTED SINCE THERE IS AT MOST ONE GROUP WITH VARIANCE GREATER THAN ZERO. THIS RESTRICTION

 ALSO APPLIES WHEN THERE IS ONLY ONE CASE PER GROUP.

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STid\_r \* ( 410) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.000000)

 -.070000) \*

 -.140000)\* M \*

 -.210000) N \*

 -.280000)N \*

 -.350000) M\* \* \*

 -.420000)\* N M\*

 -.490000)

 -.560000) \* \*

 -.630000) \*

 -.700000)

 -.770000)

 -.840000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.285 -0.339 -0.445 -0.165 -0.212 -0.430

 STD.DEV. 0.225 0.027 0.347 0.000 0.071 0.170

 S. E. M. 0.159 0.019 0.174 0.000 0.050 0.070

 MAXIMUM -0.126 -0.320 -0.039 -0.165 -0.162 -0.184

 MINIMUM -0.444 -0.358 -0.870 -0.165 -0.263 -0.660

 CASES EXCL. ( 0) ( 1) ( 0) ( 1) ( 0) ( 1)

 CASES INCL. 2 2 4 1 2 6

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.329

 | pferd 0.1122 4 0.0280 0.40 0.8009 | STD. DEV. 0.230

 | ERROR 0.4177 6 0.0696 | S. E. M. 0.069

 |--------------------------------------------------------------------------| MAXIMUM -0.039

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.870

 | WELCH 4, 4 1.00 0.5007 | CASES EXCLUDED ( 9)

 | BROWN-FORSYTHE 4, 4 0.91 0.5337 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 6 1.63 0.2816 | ROBUST S.D. 0.215

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 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STsges\_r \* ( 411) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.900000)

 0.800000) \*

 0.700000)

 0.600000)

 0.500000)

 0.400000)

 0.300000) N \*

 0.200000) \* \*\* \*

 0.100000) \* N N \* \*\*

 0.000000)M\* \* \* M M\*\*

 -.100000) \*

 -.200000) \*

 -.300000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.025 0.330 0.054 0.122 0.043 0.034

 STD.DEV. 0.012 0.384 0.136 0.136 0.048 0.158

 S. E. M. 0.009 0.222 0.068 0.096 0.034 0.060

 MAXIMUM 0.034 0.771 0.166 0.218 0.077 0.268

 MINIMUM 0.017 0.069 -0.124 0.026 0.009 -0.237

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.122

 | pferd 0.1801 4 0.0450 0.97 0.4738 | STD. DEV. 0.214

 | ERROR 0.3711 8 0.0464 | S. E. M. 0.059

 |--------------------------------------------------------------------------| MAXIMUM 0.771

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.124

 | WELCH 4, 3 0.48 0.7526 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 3 1.25 0.4443 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 5.74 0.0177 | ROBUST S.D. 0.171

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STi\_zb\_r \* ( 412) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.880000)

 0.800000) \*

 0.720000)

 0.640000)

 0.560000)

 0.480000)

 0.400000) N

 0.320000) \* \*

 0.240000) \* \*

 0.160000) \* \*

 0.080000)\* M M

 0.000000)N \*\* M M \*

 -.080000)\* \* \*\*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.012 0.437 0.048 0.032 -0.031 0.100

 STD.DEV. 0.096 0.311 0.060 0.000 0.015 0.149

 S. E. M. 0.068 0.179 0.030 0.000 0.011 0.056

 MAXIMUM 0.080 0.794 0.124 0.032 -0.021 0.281

 MINIMUM -0.056 0.226 -0.015 0.032 -0.042 -0.082

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.125

 | pferd 0.3992 4 0.0998 3.27 0.0819 | STD. DEV. 0.236

 | ERROR 0.2135 7 0.0305 | S. E. M. 0.068

 |--------------------------------------------------------------------------| MAXIMUM 0.794

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.056

 | WELCH 4, 5 2.28 0.1957 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 3 4.82 0.1135 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 6.46 0.0168 | ROBUST S.D. 0.204

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STinf\_r \* ( 413) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.50000)

 1.35000) \*

 1.20000)

 1.05000)

 0.90000)

 0.75000)

 0.60000) N \*

 0.45000) \*

 0.30000) \*\* \*

 0.15000)\* M\* M\* N

 0.00000)M \*\* M\* \*\*

 -0.15000) \*\*

 -0.30000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.047 0.643 0.079 0.101 -0.000 0.142

 STD.DEV. 0.143 0.570 0.062 0.019 0.012 0.275

 S. E. M. 0.101 0.329 0.031 0.014 0.008 0.104

 MAXIMUM 0.148 1.300 0.146 0.114 0.008 0.570

 MINIMUM -0.054 0.289 0.003 0.087 -0.008 -0.186

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.195

 | pferd 0.7933 4 0.1983 2.33 0.1438 | STD. DEV. 0.351

 | ERROR 0.6818 8 0.0852 | S. E. M. 0.097

 |--------------------------------------------------------------------------| MAXIMUM 1.300

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.054

 | WELCH 4, 3 7.27 0.0675 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 2 2.94 0.2698 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 9.79 0.0036 | ROBUST S.D. 0.269

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STdges \* ( 414) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 2.40000) \* \*

 1.60000) \* \* \* M\*\*

 0.80000) M\* \* M \*\*

 0.00000)M\* \*

 -0.80000) N \* N

 -1.60000)

 -2.40000) \*

 -3.20000)

 -4.00000)

 -4.80000)

 -5.60000)

 -6.40000)

 -7.20000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.027 -0.864 0.578 -1.110 1.134 1.384

 STD.DEV. 0.012 5.239 0.946 2.330 0.095 0.787

 S. E. M. 0.008 3.025 0.473 1.648 0.067 0.297

 MAXIMUM -0.019 2.388 1.380 0.538 1.201 2.568

 MINIMUM -0.035 -6.908 -0.783 -2.757 1.067 0.270

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.022

 | pferd 8.6112 4 2.1528 0.27 0.8872 | STD. DEV. 2.443

 | ERROR 63.0206 8 7.8776 | S. E. M. 0.678

 |--------------------------------------------------------------------------| MAXIMUM 2.388

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -6.908

 | WELCH 4, 3 43.44 0.0055 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 3 0.33 0.8458 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 8.64 0.0053 | ROBUST S.D. 2.086

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STinfm \* ( 415) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 2.70000) \*

 2.40000)

 2.10000)

 1.80000) \*

 1.50000)

 1.20000) \*

 0.90000) \* \* \*\*

 0.60000)\* N N M N

 0.30000)M \* \* M \* \*\*\*

 0.00000)

 -0.30000) \*

 -0.60000)

 -0.90000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.418 0.732 0.663 0.385 0.505 0.674

 STD.DEV. 0.254 0.502 0.905 0.000 0.155 1.023

 S. E. M. 0.179 0.290 0.453 0.000 0.110 0.387

 MAXIMUM 0.597 1.175 1.890 0.385 0.615 2.593

 MINIMUM 0.238 0.186 -0.164 0.385 0.395 -0.805

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.590

 | pferd 0.1976 4 0.0494 0.11 0.9738 | STD. DEV. 0.544

 | ERROR 3.0527 7 0.4361 | S. E. M. 0.157

 |--------------------------------------------------------------------------| MAXIMUM 1.890

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.164

 | WELCH 4, 6 0.18 0.9417 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 5 0.24 0.9018 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 1.56 0.2847 | ROBUST S.D. 0.511

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STinfd \* ( 416) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 2.00000)

 1.75000) \* \*\*

 1.50000)

 1.25000)

 1.00000) N

 0.75000) \*\*

 0.50000) N \*\* \* \* M\*

 0.25000)M \* M\* M \*

 0.00000)\* \*

 -0.25000)

 -0.50000)

 -0.75000) \*

 -1.00000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.135 0.573 0.313 1.066 0.363 0.544

 STD.DEV. 0.080 0.234 0.141 0.905 0.212 0.882

 S. E. M. 0.057 0.135 0.070 0.640 0.150 0.333

 MAXIMUM 0.191 0.711 0.481 1.706 0.513 1.699

 MINIMUM 0.078 0.304 0.196 0.426 0.214 -0.728

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.469

 | pferd 1.0890 4 0.2722 2.10 0.1728 | STD. DEV. 0.421

 | ERROR 1.0377 8 0.1297 | S. E. M. 0.117

 |--------------------------------------------------------------------------| MAXIMUM 1.706

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.078

 | WELCH 4, 3 1.94 0.3070 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 1 1.38 0.5580 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 52.15 0.0000 | ROBUST S.D. 0.355

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STpsr2 \* ( 417) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.800000)

 0.720000) \*

 0.640000)

 0.560000)

 0.480000)

 0.400000)

 0.320000)

 0.240000)

 0.160000) N \* \*

 0.080000) \*\* N

 0.000000)M\* N \* M\* M\*\*

 -.080000) \*\* \* \*\*\*

 -.160000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.021 0.194 -0.014 0.085 -0.003 -0.019

 STD.DEV. 0.000 0.436 0.124 0.097 0.024 0.088

 S. E. M. 0.000 0.252 0.062 0.068 0.017 0.033

 MAXIMUM -0.021 0.697 0.100 0.154 0.014 0.144

 MINIMUM -0.021 -0.073 -0.172 0.017 -0.020 -0.111

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.050

 | pferd 0.0971 4 0.0243 0.45 0.7731 | STD. DEV. 0.211

 | ERROR 0.4355 8 0.0544 | S. E. M. 0.058

 |--------------------------------------------------------------------------| MAXIMUM 0.697

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.172

 | WELCH 4, 3 0.63 0.6771 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 3 0.59 0.6962 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 7.76 0.0074 | ROBUST S.D. 0.164

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STidr2 \* ( 418) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.240000)

 0.180000) \*

 0.120000)

 0.060000) \*

 0.000000)\*

 -.060000)N M \*

 -.120000)\* M\* M \*

 -.180000) \*

 -.240000) \* M

 -.300000) M

 -.360000)

 -.420000) \* \*

 -.480000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -0.045 -0.290 -0.116 -0.113 -0.078 -0.220

 STD.DEV. 0.094 0.045 0.234 0.000 0.044 0.203

 S. E. M. 0.067 0.032 0.117 0.000 0.031 0.083

 MAXIMUM 0.022 -0.258 0.170 -0.113 -0.047 0.056

 MINIMUM -0.112 -0.321 -0.402 -0.113 -0.109 -0.454

 CASES EXCL. ( 0) ( 1) ( 0) ( 1) ( 0) ( 1)

 CASES INCL. 2 2 4 1 2 6

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -0.127

 | pferd 0.0719 4 0.0180 0.61 0.6712 | STD. DEV. 0.158

 | ERROR 0.1770 6 0.0295 | S. E. M. 0.048

 |--------------------------------------------------------------------------| MAXIMUM 0.170

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.402

 | WELCH 4, 5 4.61 0.0623 | CASES EXCLUDED ( 9)

 | BROWN-FORSYTHE 4, 4 1.59 0.3330 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 6 0.80 0.5693 | ROBUST S.D. 0.145

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STisdr2 \* ( 419) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.160000) \* \*

 0.140000) \*

 0.120000)

 0.100000) \* N

 0.080000)

 0.060000) M

 0.040000) M\* \* \* N

 0.020000)M\* \* \*\* N \*\*\*

 0.000000) \*

 -.020000) \*

 -.040000)

 -.060000)

 -.080000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.015 0.057 0.033 0.097 0.023 0.036

 STD.DEV. 0.006 0.036 0.011 0.080 0.019 0.080

 S. E. M. 0.004 0.021 0.006 0.057 0.013 0.030

 MAXIMUM 0.019 0.090 0.043 0.153 0.037 0.150

 MINIMUM 0.011 0.018 0.022 0.040 0.010 -0.078

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.044

 | pferd 0.0091 4 0.0023 1.85 0.2124 | STD. DEV. 0.040

 | ERROR 0.0098 8 0.0012 | S. E. M. 0.011

 |--------------------------------------------------------------------------| MAXIMUM 0.153

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.010

 | WELCH 4, 3 1.66 0.3524 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 2 1.33 0.4726 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 12.36 0.0017 | ROBUST S.D. 0.035

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STismr2 \* ( 420) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.270000)

 0.240000) \* \*

 0.210000)

 0.180000) \*

 0.150000)

 0.120000) N

 0.090000) \* \*

 0.060000)\* M M

 0.030000)M \* M M\* \*

 0.000000) \* \* \*\*

 -.030000)

 -.060000)

 -.090000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.040 0.116 0.067 0.036 0.034 0.049

 STD.DEV. 0.020 0.124 0.087 0.000 0.015 0.097

 S. E. M. 0.014 0.072 0.043 0.000 0.010 0.037

 MAXIMUM 0.054 0.253 0.188 0.036 0.044 0.226

 MINIMUM 0.025 0.009 -0.009 0.036 0.024 -0.089

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.067

 | pferd 0.0118 4 0.0030 0.38 0.8145 | STD. DEV. 0.077

 | ERROR 0.0541 7 0.0077 | S. E. M. 0.022

 |--------------------------------------------------------------------------| MAXIMUM 0.253

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.009

 | WELCH 4, 6 0.33 0.8483 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 4 0.69 0.6355 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 1.75 0.2439 | ROBUST S.D. 0.072

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STsgesr2 \* ( 421) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 1.65000)

 1.50000) \*

 1.35000)

 1.20000)

 1.05000)

 0.90000)

 0.75000)

 0.60000) N

 0.45000) \*\* \*

 0.30000) \*\* M M \*

 0.15000)M\* \* M M\*\*\*

 0.00000) \* \*

 -0.15000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.125 0.675 0.268 0.245 0.111 0.168

 STD.DEV. 0.043 0.711 0.204 0.104 0.057 0.167

 S. E. M. 0.030 0.411 0.102 0.073 0.040 0.063

 MAXIMUM 0.156 1.496 0.428 0.319 0.151 0.471

 MINIMUM 0.095 0.233 -0.009 0.172 0.070 -0.077

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.312

 | pferd 0.5626 4 0.1407 0.98 0.4718 | STD. DEV. 0.378

 | ERROR 1.1535 8 0.1442 | S. E. M. 0.105

 |--------------------------------------------------------------------------| MAXIMUM 1.496

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.009

 | WELCH 4, 3 0.96 0.5340 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 2 1.30 0.4777 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 7.06 0.0098 | ROBUST S.D. 0.283

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STinfr2 \* ( 422) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 2.00000) \*

 1.80000)

 1.60000)

 1.40000)

 1.20000)

 1.00000) N \*\*

 0.80000) M \*

 0.60000) \*

 0.40000)\* \*\* \*

 0.20000)N \* M\* M\*

 0.00000)\* M\* \*

 -0.20000)

 -0.40000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.244 0.981 0.737 0.142 0.079 0.256

 STD.DEV. 0.297 0.926 0.380 0.015 0.020 0.353

 S. E. M. 0.210 0.535 0.190 0.011 0.014 0.133

 MAXIMUM 0.454 2.051 1.004 0.153 0.093 0.754

 MINIMUM 0.034 0.430 0.186 0.132 0.065 -0.319

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.525

 | pferd 1.6531 4 0.4133 1.48 0.2954 | STD. DEV. 0.569

 | ERROR 2.2377 8 0.2797 | S. E. M. 0.158

 |--------------------------------------------------------------------------| MAXIMUM 2.051

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.034

 | WELCH 4, 3 4.08 0.1386 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 3 1.98 0.3006 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 5.33 0.0217 | ROBUST S.D. 0.544

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STinfmr2 \* ( 423) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.540000)

 0.480000) \* \*

 0.420000)

 0.360000) \*

 0.300000)

 0.240000) N

 0.180000) \* \*

 0.120000)\* M M

 0.060000)M \* M M\* \*

 0.000000) \* \* \*\*

 -.060000)

 -.120000)

 -.180000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.080 0.232 0.133 0.072 0.068 0.098

 STD.DEV. 0.041 0.249 0.173 0.000 0.030 0.193

 S. E. M. 0.029 0.144 0.087 0.000 0.021 0.073

 MAXIMUM 0.109 0.505 0.375 0.072 0.089 0.451

 MINIMUM 0.051 0.018 -0.017 0.072 0.047 -0.178

 CASES EXCL. ( 0) ( 0) ( 0) ( 1) ( 0) ( 0)

 CASES INCL. 2 3 4 1 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.133

 | pferd 0.0474 4 0.0118 0.38 0.8145 | STD. DEV. 0.155

 | ERROR 0.2165 7 0.0309 | S. E. M. 0.045

 |--------------------------------------------------------------------------| MAXIMUM 0.505

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -0.017

 | WELCH 4, 6 0.33 0.8483 | CASES EXCLUDED ( 8)

 | BROWN-FORSYTHE 4, 4 0.69 0.6355 | CASES INCLUDED 12

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 7 1.75 0.2439 | ROBUST S.D. 0.144

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* STinfdr2 \* ( 424) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*10 \*15 \*16 \*18 pferd

 MIDPOINTS...................+...................+...................+...................+...................+...................+

 0.320000) \* \*

 0.280000) \*

 0.240000)

 0.200000) \* N

 0.160000)

 0.120000) M

 0.080000) M\* \* \* N

 0.040000)M\* \* \*\* N \*\*\*

 0.000000) \*

 -.040000) \*

 -.080000)

 -.120000)

 -.160000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN 0.030 0.115 0.066 0.193 0.047 0.071

 STD.DEV. 0.012 0.073 0.022 0.160 0.038 0.160

 S. E. M. 0.009 0.042 0.011 0.113 0.027 0.061

 MAXIMUM 0.039 0.181 0.087 0.306 0.073 0.300

 MINIMUM 0.021 0.037 0.044 0.080 0.020 -0.157

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 3 4 2 2 7

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN 0.088

 | pferd 0.0363 4 0.0091 1.85 0.2124 | STD. DEV. 0.079

 | ERROR 0.0392 8 0.0049 | S. E. M. 0.022

 |--------------------------------------------------------------------------| MAXIMUM 0.306

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM 0.020

 | WELCH 4, 3 1.66 0.3524 | CASES EXCLUDED ( 7)

 | BROWN-FORSYTHE 4, 2 1.33 0.4726 | CASES INCLUDED 13

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 4, 8 12.36 0.0017 | ROBUST S.D. 0.070

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

 / FINISH

 PROGRAM TERMINATED

 BMDP7D - ONE- AND TWO-WAY ANALYSIS OF VARIANCE WITH DATA SCREENING

 Copyright 1977, 1979, 1981, 1982, 1983, 1985, 1987, 1988, 1990, 1993

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 Release: 8.1 (Windows 9x, 2000, Me, Xp) Date: 06/07/17 at 10:18:06

 Manual: BMDP Manual Volumes 1, 2, and 3.

 Digest: BMDP User's Digest.

 IBM PC: BMDP PC Supplement -- Installation and Special Features.

 PROGRAM INSTRUCTIONS

 /prob title = 'Herr Lauritz Englisch: C7D2.inp \*\*\* Quantitative Studien

 zum Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen = 10 Zeilen

 - Hier: Oberkiefer, Zahn 7 - 10

 - Vergleich der Mittelwerte des Zahnzements

 bzgl. der Lokalisation im Zahnfach

 - Umrechnung der relativen Werte in Prozentwerte

 - Berechnung der Mittelwerte "M" ueber die Schnittebenen

 getrennt fuer innerhalb und ausserhalb des Zahnfachs

 - Berechnung der Differenz der Mittelwerte "M" innerhalb jedes Zahnes

 - einfaktorielle Varianzanalyse

 \*\*\*'.

 /inp var = 278.

 file = c.

 format = '34f10,9(/70x,27f10), /40x,1f10'. ## Mit Abstandsangabe für die Ebene

 /var names = zahnid,pferd,rasse,zp,qu,znr,za,

 for lo = 0 to 9.% ## Lokalisation

 for va = lok,statu,ps,pz,isd,izd,ism,izm,idz,id,ges,sges,dz\_sb,i\_zb,

 inf,ps\_rel,s\_rel,pz\_r,isd\_r,izd\_r,ism\_r,izm\_r,idz\_r,

 id\_r,sges\_r,i\_zb\_r,inf\_r.%

 |va||lo|,%%

 abst99. ## Mit Abstandsangabe für die Ebene 99

 use = pferd,znr,

 for va = pz,pz\_r.%

 for lo = 0 to 9.% ## Lokalisation

 |va||lo|,%%

 for va = pz,pz\_r.%

 M1|va|,M3|va|,D13|va|,%.

 /group codes(pferd) = 9,15,18. ## diese Pferde haben mehr als 1 Zahn in der Au

 /trans use = ((znr ge 7) AND (znr le 10)).

 # Umrechnung der relativen Werte in Prozentwerte

 for lo = 0 to 9.%

 pz\_r|lo| = pz\_r|lo| \* 100.%

 # Selektion der Schnittebenen nach Position bzgl. des Zahnfachs

 for va = pz,pz\_r.%

 # status = 1

 for lo = 0 to 9.%

 tmp|lo| = XMIS. ## vorbesetzen

 if (statu|lo| eq 1 ) then tmp|lo| = |va||lo|.

 %

 M1|va| = mean(for lo = 0 to 9.% tmp|lo|,%).

 # status = 3

 for lo = 0 to 9.%

 tmp|lo| = XMIS. ## vorbesetzen

 if (statu|lo| eq 3 ) then tmp|lo| = |va||lo|.

 %

 M3|va| = mean(for lo = 0 to 9.% tmp|lo|,%).

 # Berechnung der Differenz

 D13|va| = M1|va| - M3|va|.

 %

 /hist group = Pferd.

 var = for va = pz,pz\_r.%

 D13|va|,%.

 /print level = min.

 case = 0.

 /end

 --- PROGRAM INSTRUCTIONS AFTER "FOR %" EXPANSION ---

 /prob title = 'Herr Lauritz Englisch: C7D2.inp \*\*\* Quantitative Studien zum

 Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen =

 10 Zeilen - Hier: Oberkiefer,

 Zahn 7 - 10 - Vergleich der Mittelwerte des Zahnzements bzgl.

 der Lokalisation im Zahnfach - Umrechnung der relativen Werte in

 Prozentwerte - Berechnung der Mittelwerte "M" ueber die

 Schnittebenen getrennt fuer innerhalb und ausserhalb des Zahnfachs -

 Berechnung der Differenz der Mittelwerte "M" innerhalb jedes Zahnes

 - einfaktorielle Varianzanalyse \*\*\*'.

 /inp var = 278. file = c. format = '34f10,9(/70x,27f10),

 /40x,1f10'.

 /var names = zahnid,pferd,rasse,zp,qu,znr,za, lok0, statu0, ps0, pz0, isd0,

 izd0, ism0, izm0, idz0, id0, ges0, sges0, dz\_sb0, i\_zb0, inf0,

 ps\_rel0, s\_rel0, pz\_r0, isd\_r0, izd\_r0, ism\_r0, izm\_r0, idz\_r0,

 id\_r0, sges\_r0, i\_zb\_r0, inf\_r0, lok1, statu1, ps1, pz1, isd1,

 izd1, ism1, izm1, idz1, id1, ges1, sges1, dz\_sb1, i\_zb1, inf1,

 ps\_rel1, s\_rel1, pz\_r1, isd\_r1, izd\_r1, ism\_r1, izm\_r1, idz\_r1,

 id\_r1, sges\_r1, i\_zb\_r1, inf\_r1, lok2, statu2, ps2, pz2, isd2,

 izd2, ism2, izm2, idz2, id2, ges2, sges2, dz\_sb2, i\_zb2, inf2,

 ps\_rel2, s\_rel2, pz\_r2, isd\_r2, izd\_r2, ism\_r2, izm\_r2, idz\_r2,

 id\_r2, sges\_r2, i\_zb\_r2, inf\_r2, lok3, statu3, ps3, pz3, isd3,

 izd3, ism3, izm3, idz3, id3, ges3, sges3, dz\_sb3, i\_zb3, inf3,

 ps\_rel3, s\_rel3, pz\_r3, isd\_r3, izd\_r3, ism\_r3, izm\_r3, idz\_r3,

 id\_r3, sges\_r3, i\_zb\_r3, inf\_r3, lok4, statu4, ps4, pz4, isd4,

 izd4, ism4, izm4, idz4, id4, ges4, sges4, dz\_sb4, i\_zb4, inf4,

 ps\_rel4, s\_rel4, pz\_r4, isd\_r4, izd\_r4, ism\_r4, izm\_r4, idz\_r4,

 id\_r4, sges\_r4, i\_zb\_r4, inf\_r4, lok5, statu5, ps5, pz5, isd5,

 izd5, ism5, izm5, idz5, id5, ges5, sges5, dz\_sb5, i\_zb5, inf5,

 ps\_rel5, s\_rel5, pz\_r5, isd\_r5, izd\_r5, ism\_r5, izm\_r5, idz\_r5,

 id\_r5, sges\_r5, i\_zb\_r5, inf\_r5, lok6, statu6, ps6, pz6, isd6,

 izd6, ism6, izm6, idz6, id6, ges6, sges6, dz\_sb6, i\_zb6, inf6,

 ps\_rel6, s\_rel6, pz\_r6, isd\_r6, izd\_r6, ism\_r6, izm\_r6, idz\_r6,

 id\_r6, sges\_r6, i\_zb\_r6, inf\_r6, lok7, statu7, ps7, pz7, isd7,

 izd7, ism7, izm7, idz7, id7, ges7, sges7, dz\_sb7, i\_zb7, inf7,

 ps\_rel7, s\_rel7, pz\_r7, isd\_r7, izd\_r7, ism\_r7, izm\_r7, idz\_r7,

 id\_r7, sges\_r7, i\_zb\_r7, inf\_r7, lok8, statu8, ps8, pz8, isd8,

 izd8, ism8, izm8, idz8, id8, ges8, sges8, dz\_sb8, i\_zb8, inf8,

 ps\_rel8, s\_rel8, pz\_r8, isd\_r8, izd\_r8, ism\_r8, izm\_r8, idz\_r8,

 id\_r8, sges\_r8, i\_zb\_r8, inf\_r8, lok9, statu9, ps9, pz9, isd9,

 izd9, ism9, izm9, idz9, id9, ges9, sges9, dz\_sb9, i\_zb9, inf9,

 ps\_rel9, s\_rel9, pz\_r9, isd\_r9, izd\_r9, ism\_r9, izm\_r9, idz\_r9,

 id\_r9, sges\_r9, i\_zb\_r9, inf\_r9, abst99.

 use = pferd,znr, pz0, pz1, pz2, pz3, pz4, pz5, pz6, pz7, pz8,

 pz9, pz\_r0, pz\_r1, pz\_r2, pz\_r3, pz\_r4, pz\_r5, pz\_r6,

 pz\_r7, pz\_r8, pz\_r9, M1pz,M3pz,D13pz, M1pz\_r,M3pz\_r,D13pz\_r.

 /group codes(pferd) = 9,15,18.

 /trans use = ((znr ge 7) AND (znr le 10)). pz\_r0 = pz\_r0 \* 100.

 pz\_r1 = pz\_r1 \* 100. pz\_r2 = pz\_r2 \* 100. pz\_r3 = pz\_r3 \* 100.

 pz\_r4 = pz\_r4 \* 100. pz\_r5 = pz\_r5 \* 100. pz\_r6 = pz\_r6 \* 100.

 pz\_r7 = pz\_r7 \* 100. pz\_r8 = pz\_r8 \* 100. pz\_r9 = pz\_r9 \* 100.

 tmp0 = XMIS. if (statu0 eq 1 ) then tmp0 = pz0. tmp1 = XMIS.

 if (statu1 eq 1 ) then tmp1 = pz1. tmp2 = XMIS.

 if (statu2 eq 1 ) then tmp2 = pz2. tmp3 = XMIS.

 if (statu3 eq 1 ) then tmp3 = pz3. tmp4 = XMIS.

 if (statu4 eq 1 ) then tmp4 = pz4. tmp5 = XMIS.

 if (statu5 eq 1 ) then tmp5 = pz5. tmp6 = XMIS.

 if (statu6 eq 1 ) then tmp6 = pz6. tmp7 = XMIS.

 if (statu7 eq 1 ) then tmp7 = pz7. tmp8 = XMIS.

 if (statu8 eq 1 ) then tmp8 = pz8. tmp9 = XMIS.

 if (statu9 eq 1 ) then tmp9 = pz9.

 M1pz = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8, tmp9).

 tmp0 = XMIS. if (statu0 eq 3 ) then tmp0 = pz0. tmp1 = XMIS.

 if (statu1 eq 3 ) then tmp1 = pz1. tmp2 = XMIS.

 if (statu2 eq 3 ) then tmp2 = pz2. tmp3 = XMIS.

 if (statu3 eq 3 ) then tmp3 = pz3. tmp4 = XMIS.

 if (statu4 eq 3 ) then tmp4 = pz4. tmp5 = XMIS.

 if (statu5 eq 3 ) then tmp5 = pz5. tmp6 = XMIS.

 if (statu6 eq 3 ) then tmp6 = pz6. tmp7 = XMIS.

 if (statu7 eq 3 ) then tmp7 = pz7. tmp8 = XMIS.

 if (statu8 eq 3 ) then tmp8 = pz8. tmp9 = XMIS.

 if (statu9 eq 3 ) then tmp9 = pz9.

 M3pz = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8, tmp9).

 D13pz = M1pz - M3pz. tmp0 = XMIS.

 if (statu0 eq 1 ) then tmp0 = pz\_r0. tmp1 = XMIS.

 if (statu1 eq 1 ) then tmp1 = pz\_r1. tmp2 = XMIS.

 if (statu2 eq 1 ) then tmp2 = pz\_r2. tmp3 = XMIS.

 if (statu3 eq 1 ) then tmp3 = pz\_r3. tmp4 = XMIS.

 if (statu4 eq 1 ) then tmp4 = pz\_r4. tmp5 = XMIS.

 if (statu5 eq 1 ) then tmp5 = pz\_r5. tmp6 = XMIS.

 if (statu6 eq 1 ) then tmp6 = pz\_r6. tmp7 = XMIS.

 if (statu7 eq 1 ) then tmp7 = pz\_r7. tmp8 = XMIS.

 if (statu8 eq 1 ) then tmp8 = pz\_r8. tmp9 = XMIS.

 if (statu9 eq 1 ) then tmp9 = pz\_r9.

 M1pz\_r = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8,

 tmp9). tmp0 = XMIS. if (statu0 eq 3 ) then tmp0 = pz\_r0.

 tmp1 = XMIS. if (statu1 eq 3 ) then tmp1 = pz\_r1. tmp2 = XMIS.

 if (statu2 eq 3 ) then tmp2 = pz\_r2. tmp3 = XMIS.

 if (statu3 eq 3 ) then tmp3 = pz\_r3. tmp4 = XMIS.

 if (statu4 eq 3 ) then tmp4 = pz\_r4. tmp5 = XMIS.

 if (statu5 eq 3 ) then tmp5 = pz\_r5. tmp6 = XMIS.

 if (statu6 eq 3 ) then tmp6 = pz\_r6. tmp7 = XMIS.

 if (statu7 eq 3 ) then tmp7 = pz\_r7. tmp8 = XMIS.

 if (statu8 eq 3 ) then tmp8 = pz\_r8. tmp9 = XMIS.

 if (statu9 eq 3 ) then tmp9 = pz\_r9.

 M3pz\_r = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8,

 tmp9). D13pz\_r = M1pz\_r - M3pz\_r.

 /hist group = Pferd. var = D13pz, D13pz\_r.

 /print level = min. case = 0.

 /end/

 NUMBER OF CASES READ. . . . . . . . . . . . . . 28

 CASES WITH USE SET TO ZERO . . . . . . . . . 8

 REMAINING NUMBER OF CASES . . . . . . . . 20

 DESCRIPTIVE STATISTICS OF DATA

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

 VARIABLE TOTAL STANDARD ST.ERR COEFF SMALLEST LARGEST

 NO. NAME FREQ. MEAN DEV. OF MEAN OF VAR VALUE VALUE RANGE

 2 pferd 20 12.400 4.4651 .99842 .36009 2.0000 18.000 16.000

 6 znr 20 8.5000 1.1471 .25649 .13495 7.0000 10.000 3.0000

 11 pz0 19 27.856 12.064 2.7676 .43307 10.680 57.830 47.150

 38 pz1 19 76.448 40.825 9.3659 .53402 30.350 165.71 135.36

 65 pz2 19 104.01 59.192 13.580 .56912 33.970 201.47 167.50

 92 pz3 9 62.862 29.859 9.9528 .47498 36.950 133.22 96.270

 119 pz4 9 107.63 49.818 16.606 .46284 43.970 180.19 136.22

 146 pz5 5 133.81 61.615 27.555 .46047 67.240 206.04 138.80

 173 pz6 2 144.55 8.2095 5.8050 .05679 138.75 150.36 11.610

 200 pz7 0

 227 pz8 0

 254 pz9 20 143.61 33.160 7.4148 .23090 58.230 185.52 127.29

 25 pz\_r0 18 5.1635 2.0452 .48205 .39608 1.8497 9.2853 7.4356

 52 pz\_r1 19 13.779 9.3213 2.1384 .67648 4.8429 43.549 38.707

 79 pz\_r2 19 17.055 10.365 2.3778 .60773 5.3265 44.553 39.227

 106 pz\_r3 9 10.176 5.1604 1.7201 .50713 6.5927 22.622 16.029

 133 pz\_r4 9 15.560 6.2185 2.0728 .39964 7.8924 25.340 17.448

 160 pz\_r5 5 18.340 7.1584 3.2013 .39031 11.479 26.208 14.729

 187 pz\_r6 2 19.686 1.0292 .72779 .05228 18.958 20.414 1.4556

 214 pz\_r7 0

 241 pz\_r8 0

 268 pz\_r9 20 21.576 4.5885 1.0260 .21267 12.054 35.276 23.222

 289 M1pz 20 43.847 11.759 2.6294 .26818 23.980 71.495 47.515

 290 M3pz 20 148.80 32.527 7.2733 .21860 58.230 185.48 127.25

 291 D13pz 20 -104.95 38.560 8.6223 -.36741 -151.77 13.265 165.04

 292 M1pz\_r 19 7.8440 2.3470 .53843 .29921 4.4662 13.273 8.8068

 293 M3pz\_r 20 22.298 5.3232 1.1903 .23873 12.054 39.914 27.861

 294 D13pz\_r 19 -14.566 6.5074 1.4929 -.44676 -33.056 1.2192 34.275

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* D13pz \* ( 291) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*15 \*18 pferd

 MIDPOINTS.............................+.............................+.............................+.............................+

 30.000)

 15.000) \*

 0.000)

 -15.000)

 -30.000)

 -45.000)

 -60.000) \*

 -75.000) \*

 -90.000)\* M\* M\*

 -105.000) \*\*\*

 -120.000)N \* \*\*

 -135.000) M \*\*

 -150.000)\* \*\*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -123.660 -139.724 -92.840 -92.259

 STD.DEV. 37.265 12.890 1.414 41.119

 S. E. M. 26.351 6.445 1.000 11.870

 MAXIMUM -97.309 -122.125 -91.840 13.265

 MINIMUM -150.010 -151.770 -93.840 -137.100

 CASES EXCL. ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 4 2 12

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -1.2E+2

 | pferd 2931.0676 2 1465.5338 3.88 0.0962 | STD. DEV. 26.241

 | ERROR 1889.1409 5 377.8282 | S. E. M. 9.278

 |--------------------------------------------------------------------------| MAXIMUM -91.840

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -1.5E+2

 | WELCH 2, 2 19.92 0.0478 | CASES EXCLUDED ( 12)

 | BROWN-FORSYTHE 2, 1 2.60 0.4014 | CASES INCLUDED 8

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 2, 5 11.11 0.0145 | ROBUST S.D. 30.426

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 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* D13pz\_r \* ( 294) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*9 \*15 \*18 pferd

 MIDPOINTS.............................+.............................+.............................+.............................+

 3.0000)

 0.0000) \*

 -3.0000)

 -6.0000)

 -9.0000) \*

 -12.0000) M\* \*\*\*\*

 -15.0000)\* \* M\*\*\*

 -18.0000)N M\*\*

 -21.0000)\*

 -24.0000)

 -27.0000)

 -30.0000)

 -33.0000) \*

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -16.682 -18.062 -10.696 -13.613

 STD.DEV. 4.402 1.319 0.211 7.999

 S. E. M. 3.113 0.660 0.149 2.412

 MAXIMUM -13.569 -16.355 -10.546 1.219

 MINIMUM -19.795 -19.387 -10.845 -33.056

 CASES EXCL. ( 0) ( 0) ( 0) ( 1)

 CASES INCL. 2 4 2 11

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -15.876

 | pferd 74.0870 2 37.0435 7.52 0.0311 | STD. DEV. 3.756

 | ERROR 24.6460 5 4.9292 | S. E. M. 1.328

 |--------------------------------------------------------------------------| MAXIMUM -10.546

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -19.795

 | WELCH 2, 2 46.00 0.0213 | CASES EXCLUDED ( 12)

 | BROWN-FORSYTHE 2, 1 4.80 0.3072 | CASES INCLUDED 8

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 2, 5 19.90 0.0042 | ROBUST S.D. 4.243

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 / FINISH

 PROGRAM TERMINATED

 BMDP7D - ONE- AND TWO-WAY ANALYSIS OF VARIANCE WITH DATA SCREENING

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 by BMDP Statistical Software, Inc.

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 Manual: BMDP Manual Volumes 1, 2, and 3.

 Digest: BMDP User's Digest.

 IBM PC: BMDP PC Supplement -- Installation and Special Features.

 PROGRAM INSTRUCTIONS

 /prob title = 'Herr Lauritz Englisch: D7D2.inp \*\*\* Quantitative Studien

 zum Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen = 10 Zeilen

 - Hier: Oberkiefer, Zahn 7 - 10

 - Vergleich der Mittelwerte des Zahnzements

 bzgl. der Lokalisation im Zahnfach

 - Umrechnung der relativen Werte in Prozentwerte

 - Berechnung der Mittelwerte "M" ueber die Schnittebenen

 getrennt fuer innerhalb und ausserhalb des Zahnfachs

 - Berechnung der Differenz der Mittelwerte "M" innerhalb jedes Zahnes

 - einfaktorielle Varianzanalyse

 \*\*\*'.

 /inp var = 89.

 file = d. ## analog zu Datensatz B.Dat

 format = '16f10,8(/70x,9f10), /40x,1f10'. ## Mit Abstandsangabe für die Ebene 9

 /var names = zahnid,pferd,rasse,zp,qu,znr,za,

 for lo = 0 to 8.% ## Lokalisation

 for va = lok,statu,ps,pz,id,ges,s\_rel,z\_rel,d\_rel.%

 |va||lo|,%%

 abst99. ## Mit Abstandsangabe für die Ebene 99

 use = pferd,znr,

 for va = pz,z\_rel.%

 for lo = 0 to 8.% ## Lokalisation

 |va||lo|,%%

 for va = pz,z\_rel.%

 M1|va|,M3|va|,D13|va|,%.

 /group codes(pferd) = 7 to 10. ## diese Pferde haben mehr als 1 Zahn in der Au

 /trans use = ((znr ge 7) AND (znr le 10)).

 # Umrechnung der relativen Werte in Prozentwerte

 for lo = 0 to 8.%

 z\_rel|lo| = z\_rel|lo| \* 100.%

 # Selektion der Schnittebenen nach Position bzgl. des Zahnfachs

 for va = pz,z\_rel.%

 # status = 1

 for lo = 0 to 8.%

 tmp|lo| = XMIS. ## vorbesetzen

 if (statu|lo| eq 1 ) then tmp|lo| = |va||lo|.

 %

 M1|va| = mean(for lo = 0 to 8.% tmp|lo|,%).

 # status = 3

 for lo = 0 to 8.%

 tmp|lo| = XMIS. ## vorbesetzen

 if (statu|lo| eq 3 ) then tmp|lo| = |va||lo|.

 %

 M3|va| = mean(for lo = 0 to 8.% tmp|lo|,%).

 # Berechnung der Differenz

 D13|va| = M1|va| - M3|va|.

 %

 /hist group = Pferd.

 var = for va = pz,z\_rel.%

 D13|va|,%.

 /print level = min.

 case = 0.

 /end

 --- PROGRAM INSTRUCTIONS AFTER "FOR %" EXPANSION ---

 /prob title = 'Herr Lauritz Englisch: D7D2.inp \*\*\* Quantitative Studien zum

 Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen =

 10 Zeilen - Hier: Oberkiefer,

 Zahn 7 - 10 - Vergleich der Mittelwerte des Zahnzements bzgl.

 der Lokalisation im Zahnfach - Umrechnung der relativen Werte in

 Prozentwerte - Berechnung der Mittelwerte "M" ueber die

 Schnittebenen getrennt fuer innerhalb und ausserhalb des Zahnfachs -

 Berechnung der Differenz der Mittelwerte "M" innerhalb jedes Zahnes

 - einfaktorielle Varianzanalyse \*\*\*'.

 /inp var = 89. file = d. format = '16f10,8(/70x,9f10),

 /40x,1f10'.

 /var names = zahnid,pferd,rasse,zp,qu,znr,za, lok0, statu0, ps0, pz0, id0,

 ges0, s\_rel0, z\_rel0, d\_rel0, lok1, statu1, ps1, pz1, id1, ges1,

 s\_rel1, z\_rel1, d\_rel1, lok2, statu2, ps2, pz2, id2, ges2, s\_rel2,

 z\_rel2, d\_rel2, lok3, statu3, ps3, pz3, id3, ges3, s\_rel3, z\_rel3,

 d\_rel3, lok4, statu4, ps4, pz4, id4, ges4, s\_rel4, z\_rel4, d\_rel4,

 lok5, statu5, ps5, pz5, id5, ges5, s\_rel5, z\_rel5, d\_rel5, lok6,

 statu6, ps6, pz6, id6, ges6, s\_rel6, z\_rel6, d\_rel6, lok7, statu7,

 ps7, pz7, id7, ges7, s\_rel7, z\_rel7, d\_rel7, lok8, statu8, ps8,

 pz8, id8, ges8, s\_rel8, z\_rel8, d\_rel8, abst99.

 use = pferd,znr, pz0, pz1, pz2, pz3, pz4, pz5, pz6, pz7, pz8,

 z\_rel0, z\_rel1, z\_rel2, z\_rel3, z\_rel4, z\_rel5, z\_rel6,

 z\_rel7, z\_rel8, M1pz,M3pz,D13pz, M1z\_rel,M3z\_rel,D13z\_rel.

 /group codes(pferd) = 7 to 10.

 /trans use = ((znr ge 7) AND (znr le 10)). z\_rel0 = z\_rel0 \* 100.

 z\_rel1 = z\_rel1 \* 100. z\_rel2 = z\_rel2 \* 100. z\_rel3 = z\_rel3 \* 100.

 z\_rel4 = z\_rel4 \* 100. z\_rel5 = z\_rel5 \* 100. z\_rel6 = z\_rel6 \* 100.

 z\_rel7 = z\_rel7 \* 100. z\_rel8 = z\_rel8 \* 100. tmp0 = XMIS.

 if (statu0 eq 1 ) then tmp0 = pz0. tmp1 = XMIS.

 if (statu1 eq 1 ) then tmp1 = pz1. tmp2 = XMIS.

 if (statu2 eq 1 ) then tmp2 = pz2. tmp3 = XMIS.

 if (statu3 eq 1 ) then tmp3 = pz3. tmp4 = XMIS.

 if (statu4 eq 1 ) then tmp4 = pz4. tmp5 = XMIS.

 if (statu5 eq 1 ) then tmp5 = pz5. tmp6 = XMIS.

 if (statu6 eq 1 ) then tmp6 = pz6. tmp7 = XMIS.

 if (statu7 eq 1 ) then tmp7 = pz7. tmp8 = XMIS.

 if (statu8 eq 1 ) then tmp8 = pz8.

 M1pz = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 tmp0 = XMIS. if (statu0 eq 3 ) then tmp0 = pz0. tmp1 = XMIS.

 if (statu1 eq 3 ) then tmp1 = pz1. tmp2 = XMIS.

 if (statu2 eq 3 ) then tmp2 = pz2. tmp3 = XMIS.

 if (statu3 eq 3 ) then tmp3 = pz3. tmp4 = XMIS.

 if (statu4 eq 3 ) then tmp4 = pz4. tmp5 = XMIS.

 if (statu5 eq 3 ) then tmp5 = pz5. tmp6 = XMIS.

 if (statu6 eq 3 ) then tmp6 = pz6. tmp7 = XMIS.

 if (statu7 eq 3 ) then tmp7 = pz7. tmp8 = XMIS.

 if (statu8 eq 3 ) then tmp8 = pz8.

 M3pz = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 D13pz = M1pz - M3pz. tmp0 = XMIS.

 if (statu0 eq 1 ) then tmp0 = z\_rel0. tmp1 = XMIS.

 if (statu1 eq 1 ) then tmp1 = z\_rel1. tmp2 = XMIS.

 if (statu2 eq 1 ) then tmp2 = z\_rel2. tmp3 = XMIS.

 if (statu3 eq 1 ) then tmp3 = z\_rel3. tmp4 = XMIS.

 if (statu4 eq 1 ) then tmp4 = z\_rel4. tmp5 = XMIS.

 if (statu5 eq 1 ) then tmp5 = z\_rel5. tmp6 = XMIS.

 if (statu6 eq 1 ) then tmp6 = z\_rel6. tmp7 = XMIS.

 if (statu7 eq 1 ) then tmp7 = z\_rel7. tmp8 = XMIS.

 if (statu8 eq 1 ) then tmp8 = z\_rel8.

 M1z\_rel = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 tmp0 = XMIS. if (statu0 eq 3 ) then tmp0 = z\_rel0. tmp1 = XMIS.

 if (statu1 eq 3 ) then tmp1 = z\_rel1. tmp2 = XMIS.

 if (statu2 eq 3 ) then tmp2 = z\_rel2. tmp3 = XMIS.

 if (statu3 eq 3 ) then tmp3 = z\_rel3. tmp4 = XMIS.

 if (statu4 eq 3 ) then tmp4 = z\_rel4. tmp5 = XMIS.

 if (statu5 eq 3 ) then tmp5 = z\_rel5. tmp6 = XMIS.

 if (statu6 eq 3 ) then tmp6 = z\_rel6. tmp7 = XMIS.

 if (statu7 eq 3 ) then tmp7 = z\_rel7. tmp8 = XMIS.

 if (statu8 eq 3 ) then tmp8 = z\_rel8.

 M3z\_rel = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 D13z\_rel = M1z\_rel - M3z\_rel.

 /hist group = Pferd. var = D13pz, D13z\_rel.

 /print level = min. case = 0.

 /end/

 NUMBER OF CASES READ. . . . . . . . . . . . . . 26

 CASES WITH USE SET TO ZERO . . . . . . . . . 10

 REMAINING NUMBER OF CASES . . . . . . . . 16

 DESCRIPTIVE STATISTICS OF DATA

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

 VARIABLE TOTAL STANDARD ST.ERR COEFF SMALLEST LARGEST

 NO. NAME FREQ. MEAN DEV. OF MEAN OF VAR VALUE VALUE RANGE

 2 pferd 16 7.0625 2.9090 .72726 .41190 1.0000 10.000 9.0000

 6 znr 16 8.0000 1.1547 .28868 .14434 7.0000 10.000 3.0000

 11 pz0 16 50.933 35.626 8.9066 .69947 16.270 123.60 107.33

 20 pz1 16 109.45 64.351 16.088 .58795 32.440 208.98 176.54

 29 pz2 16 159.88 83.986 20.996 .52530 40.650 292.54 251.89

 38 pz3 9 142.12 84.246 28.082 .59277 51.940 279.64 227.70

 47 pz4 5 96.750 35.789 16.006 .36992 55.760 137.65 81.890

 56 pz5 5 162.12 89.864 40.188 .55431 65.850 267.20 201.35

 65 pz6 4 208.12 27.576 13.788 .13250 187.00 247.63 60.630

 74 pz7 1 253.18 0.0000 0.0000 0.0000 253.18 253.18 0.0000

 83 pz8 16 165.91 42.773 10.693 .25781 92.850 257.61 164.76

 15 z\_rel0 16 14.681 8.4979 2.1245 .57883 4.9000 27.000 22.100

 24 z\_rel1 16 25.912 11.793 2.9481 .45509 10.600 42.300 31.700

 33 z\_rel2 16 33.500 13.764 3.4410 .41086 12.600 49.900 37.300

 42 z\_rel3 9 28.722 11.480 3.8266 .39969 15.600 43.000 27.400

 51 z\_rel4 5 22.640 5.3984 2.4142 .23845 16.200 29.200 13.000

 60 z\_rel5 5 32.080 10.560 4.7224 .32917 19.500 43.000 23.500

 69 z\_rel6 4 40.475 5.0408 2.5204 .12454 36.200 47.600 11.400

 78 z\_rel7 1 43.700 0.0000 0.0000 0.0000 43.700 43.700 0.0000

 87 z\_rel8 16 35.956 4.2417 1.0604 .11797 26.600 46.800 20.200

 99 M1pz 16 71.677 23.757 5.9392 .33144 38.650 126.72 88.070

 100 M3pz 16 192.95 38.738 9.6845 .20077 129.62 275.08 145.46

 101 D13pz 16 -121.27 32.439 8.1096 -.26749 -200.72 -66.540 134.18

 102 M1z\_rel 16 19.361 4.1758 1.0440 .21568 13.567 27.000 13.433

 103 M3z\_rel 16 39.456 3.2734 .81836 .08296 36.000 48.350 12.350

 104 D13z\_rel 16 -20.095 5.0483 1.2621 -.25122 -27.570 -10.000 17.570

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* D13pz \* ( 101) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 -45.000)

 -60.000) \*

 -75.000) \*

 -90.000) M

 -105.000) \* M\*

 -120.000)\* \*\* \*\*

 -135.000)M N

 -150.000) \* \*\*

 -165.000)

 -180.000) N

 -195.000) \*

 -210.000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -128.712 -173.600 -135.056 -87.683 -106.487

 STD.DEV. 5.123 38.346 21.161 19.708 18.318

 S. E. M. 3.622 27.115 10.581 11.379 8.192

 MAXIMUM -125.090 -146.485 -115.033 -66.540 -78.580

 MINIMUM -132.335 -200.715 -154.740 -105.545 -125.605

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -1.3E+2

 | pferd 9235.1738 3 3078.3914 5.96 0.0243 | STD. DEV. 35.850

 | ERROR 3616.9421 7 516.7060 | S. E. M. 10.809

 |--------------------------------------------------------------------------| MAXIMUM -66.540

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -2.0E+2

 | WELCH 3, 3 3.59 0.1606 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 2 5.15 0.1668 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 7.14 0.0155 | ROBUST S.D. 34.942

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

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* D13z\_rel \* ( 104) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 -9.0000)

 -10.8000) \*

 -12.6000) \*\*

 -14.4000)

 -16.2000)\* N

 -18.0000) N \*\*

 -19.8000)N \*

 -21.6000) \* \* \* \*

 -23.4000)\* N N \*

 -25.2000) \*

 -27.0000) \* \*

 -28.8000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -20.025 -23.925 -23.821 -18.483 -16.578

 STD.DEV. 4.207 4.561 3.325 7.405 3.407

 S. E. M. 2.975 3.225 1.663 4.275 1.524

 MAXIMUM -17.050 -20.700 -19.930 -10.000 -12.800

 MINIMUM -23.000 -27.150 -27.570 -23.650 -20.800

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -21.694

 | pferd 64.5447 3 21.5149 0.83 0.5180 | STD. DEV. 4.959

 | ERROR 181.3358 7 25.9051 | S. E. M. 1.495

 |--------------------------------------------------------------------------| MAXIMUM -10.000

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -27.570

 | WELCH 3, 3 0.53 0.6925 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 5 0.82 0.5348 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 2.10 0.1882 | ROBUST S.D. 4.564

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 / FINISH

 PROGRAM TERMINATED

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 - Hier: Oberkiefer, Zahn 7 - 10

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 bzgl. der Lokalisation im Zahnfach

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 - Berechnung der Mittelwerte "M" ueber die Schnittebenen

 getrennt fuer innerhalb und ausserhalb des Zahnfachs

 - Berechnung der Differenz der Mittelwerte "M" innerhalb jedes Zahnes

 - einfaktorielle Varianzanalyse

 \*\*\*'.

 /inp var = 89.

 file = d. ## analog zu Datensatz B.Dat

 format = '16f10,8(/70x,9f10), /40x,1f10'. ## Mit Abstandsangabe für die Ebene 9

 /var names = zahnid,pferd,rasse,zp,qu,znr,za,

 for lo = 0 to 8.% ## Lokalisation

 for va = lok,statu,ps,pz,id,ges,s\_rel,z\_rel,d\_rel.%

 |va||lo|,%%

 abst99. ## Mit Abstandsangabe für die Ebene 99

 use = pferd,znr,

 for va = pz,z\_rel.%

 for lo = 0 to 8.% ## Lokalisation

 |va||lo|,%%

 for va = pz,z\_rel.%

 M1|va|,M3|va|,D13|va|,%.

 /group codes(pferd) = 7 to 10. ## diese Pferde haben mehr als 1 Zahn in der Au

 /trans use = ((znr ge 7) AND (znr le 10)).

 # Umrechnung der relativen Werte in Prozentwerte

 for lo = 0 to 8.%

 z\_rel|lo| = z\_rel|lo| \* 100.%

 # Selektion der Schnittebenen nach Position bzgl. des Zahnfachs

 for va = pz,z\_rel.%

 # status = 1

 for lo = 0 to 8.%

 tmp|lo| = XMIS. ## vorbesetzen

 if (statu|lo| eq 1 ) then tmp|lo| = |va||lo|.

 %

 M1|va| = mean(for lo = 0 to 8.% tmp|lo|,%).

 # status = 3

 for lo = 0 to 8.%

 tmp|lo| = XMIS. ## vorbesetzen

 if (statu|lo| eq 3 ) then tmp|lo| = |va||lo|.

 %

 M3|va| = mean(for lo = 0 to 8.% tmp|lo|,%).

 # Berechnung der Differenz

 D13|va| = M1|va| - M3|va|.

 %

 /hist group = Pferd.

 var = for va = pz,z\_rel.%

 D13|va|,%.

 /print level = min.

 case = 0.

 /end

 --- PROGRAM INSTRUCTIONS AFTER "FOR %" EXPANSION ---

 /prob title = 'Herr Lauritz Englisch: D7D2.inp \*\*\* Quantitative Studien zum

 Schmelzgehalt in Pferdebackenzaehnen.

 - 1 Fall = 1 Zahn = 10 Lokalisationen =

 10 Zeilen - Hier: Oberkiefer,

 Zahn 7 - 10 - Vergleich der Mittelwerte des Zahnzements bzgl.

 der Lokalisation im Zahnfach - Umrechnung der relativen Werte in

 Prozentwerte - Berechnung der Mittelwerte "M" ueber die

 Schnittebenen getrennt fuer innerhalb und ausserhalb des Zahnfachs -

 Berechnung der Differenz der Mittelwerte "M" innerhalb jedes Zahnes

 - einfaktorielle Varianzanalyse \*\*\*'.

 /inp var = 89. file = d. format = '16f10,8(/70x,9f10),

 /40x,1f10'.

 /var names = zahnid,pferd,rasse,zp,qu,znr,za, lok0, statu0, ps0, pz0, id0,

 ges0, s\_rel0, z\_rel0, d\_rel0, lok1, statu1, ps1, pz1, id1, ges1,

 s\_rel1, z\_rel1, d\_rel1, lok2, statu2, ps2, pz2, id2, ges2, s\_rel2,

 z\_rel2, d\_rel2, lok3, statu3, ps3, pz3, id3, ges3, s\_rel3, z\_rel3,

 d\_rel3, lok4, statu4, ps4, pz4, id4, ges4, s\_rel4, z\_rel4, d\_rel4,

 lok5, statu5, ps5, pz5, id5, ges5, s\_rel5, z\_rel5, d\_rel5, lok6,

 statu6, ps6, pz6, id6, ges6, s\_rel6, z\_rel6, d\_rel6, lok7, statu7,

 ps7, pz7, id7, ges7, s\_rel7, z\_rel7, d\_rel7, lok8, statu8, ps8,

 pz8, id8, ges8, s\_rel8, z\_rel8, d\_rel8, abst99.

 use = pferd,znr, pz0, pz1, pz2, pz3, pz4, pz5, pz6, pz7, pz8,

 z\_rel0, z\_rel1, z\_rel2, z\_rel3, z\_rel4, z\_rel5, z\_rel6,

 z\_rel7, z\_rel8, M1pz,M3pz,D13pz, M1z\_rel,M3z\_rel,D13z\_rel.

 /group codes(pferd) = 7 to 10.

 /trans use = ((znr ge 7) AND (znr le 10)). z\_rel0 = z\_rel0 \* 100.

 z\_rel1 = z\_rel1 \* 100. z\_rel2 = z\_rel2 \* 100. z\_rel3 = z\_rel3 \* 100.

 z\_rel4 = z\_rel4 \* 100. z\_rel5 = z\_rel5 \* 100. z\_rel6 = z\_rel6 \* 100.

 z\_rel7 = z\_rel7 \* 100. z\_rel8 = z\_rel8 \* 100. tmp0 = XMIS.

 if (statu0 eq 1 ) then tmp0 = pz0. tmp1 = XMIS.

 if (statu1 eq 1 ) then tmp1 = pz1. tmp2 = XMIS.

 if (statu2 eq 1 ) then tmp2 = pz2. tmp3 = XMIS.

 if (statu3 eq 1 ) then tmp3 = pz3. tmp4 = XMIS.

 if (statu4 eq 1 ) then tmp4 = pz4. tmp5 = XMIS.

 if (statu5 eq 1 ) then tmp5 = pz5. tmp6 = XMIS.

 if (statu6 eq 1 ) then tmp6 = pz6. tmp7 = XMIS.

 if (statu7 eq 1 ) then tmp7 = pz7. tmp8 = XMIS.

 if (statu8 eq 1 ) then tmp8 = pz8.

 M1pz = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 tmp0 = XMIS. if (statu0 eq 3 ) then tmp0 = pz0. tmp1 = XMIS.

 if (statu1 eq 3 ) then tmp1 = pz1. tmp2 = XMIS.

 if (statu2 eq 3 ) then tmp2 = pz2. tmp3 = XMIS.

 if (statu3 eq 3 ) then tmp3 = pz3. tmp4 = XMIS.

 if (statu4 eq 3 ) then tmp4 = pz4. tmp5 = XMIS.

 if (statu5 eq 3 ) then tmp5 = pz5. tmp6 = XMIS.

 if (statu6 eq 3 ) then tmp6 = pz6. tmp7 = XMIS.

 if (statu7 eq 3 ) then tmp7 = pz7. tmp8 = XMIS.

 if (statu8 eq 3 ) then tmp8 = pz8.

 M3pz = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 D13pz = M1pz - M3pz. tmp0 = XMIS.

 if (statu0 eq 1 ) then tmp0 = z\_rel0. tmp1 = XMIS.

 if (statu1 eq 1 ) then tmp1 = z\_rel1. tmp2 = XMIS.

 if (statu2 eq 1 ) then tmp2 = z\_rel2. tmp3 = XMIS.

 if (statu3 eq 1 ) then tmp3 = z\_rel3. tmp4 = XMIS.

 if (statu4 eq 1 ) then tmp4 = z\_rel4. tmp5 = XMIS.

 if (statu5 eq 1 ) then tmp5 = z\_rel5. tmp6 = XMIS.

 if (statu6 eq 1 ) then tmp6 = z\_rel6. tmp7 = XMIS.

 if (statu7 eq 1 ) then tmp7 = z\_rel7. tmp8 = XMIS.

 if (statu8 eq 1 ) then tmp8 = z\_rel8.

 M1z\_rel = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 tmp0 = XMIS. if (statu0 eq 3 ) then tmp0 = z\_rel0. tmp1 = XMIS.

 if (statu1 eq 3 ) then tmp1 = z\_rel1. tmp2 = XMIS.

 if (statu2 eq 3 ) then tmp2 = z\_rel2. tmp3 = XMIS.

 if (statu3 eq 3 ) then tmp3 = z\_rel3. tmp4 = XMIS.

 if (statu4 eq 3 ) then tmp4 = z\_rel4. tmp5 = XMIS.

 if (statu5 eq 3 ) then tmp5 = z\_rel5. tmp6 = XMIS.

 if (statu6 eq 3 ) then tmp6 = z\_rel6. tmp7 = XMIS.

 if (statu7 eq 3 ) then tmp7 = z\_rel7. tmp8 = XMIS.

 if (statu8 eq 3 ) then tmp8 = z\_rel8.

 M3z\_rel = mean( tmp0, tmp1, tmp2, tmp3, tmp4, tmp5, tmp6, tmp7, tmp8).

 D13z\_rel = M1z\_rel - M3z\_rel.

 /hist group = Pferd. var = D13pz, D13z\_rel.

 /print level = min. case = 0.

 /end/

 NUMBER OF CASES READ. . . . . . . . . . . . . . 26

 CASES WITH USE SET TO ZERO . . . . . . . . . 10

 REMAINING NUMBER OF CASES . . . . . . . . 16

 DESCRIPTIVE STATISTICS OF DATA

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

 VARIABLE TOTAL STANDARD ST.ERR COEFF SMALLEST LARGEST

 NO. NAME FREQ. MEAN DEV. OF MEAN OF VAR VALUE VALUE RANGE

 2 pferd 16 7.0625 2.9090 .72726 .41190 1.0000 10.000 9.0000

 6 znr 16 8.0000 1.1547 .28868 .14434 7.0000 10.000 3.0000

 11 pz0 16 50.933 35.626 8.9066 .69947 16.270 123.60 107.33

 20 pz1 16 109.45 64.351 16.088 .58795 32.440 208.98 176.54

 29 pz2 16 159.88 83.986 20.996 .52530 40.650 292.54 251.89

 38 pz3 9 142.12 84.246 28.082 .59277 51.940 279.64 227.70

 47 pz4 5 96.750 35.789 16.006 .36992 55.760 137.65 81.890

 56 pz5 5 162.12 89.864 40.188 .55431 65.850 267.20 201.35

 65 pz6 4 208.12 27.576 13.788 .13250 187.00 247.63 60.630

 74 pz7 1 253.18 0.0000 0.0000 0.0000 253.18 253.18 0.0000

 83 pz8 16 165.91 42.773 10.693 .25781 92.850 257.61 164.76

 15 z\_rel0 16 14.681 8.4979 2.1245 .57883 4.9000 27.000 22.100

 24 z\_rel1 16 25.912 11.793 2.9481 .45509 10.600 42.300 31.700

 33 z\_rel2 16 33.500 13.764 3.4410 .41086 12.600 49.900 37.300

 42 z\_rel3 9 28.722 11.480 3.8266 .39969 15.600 43.000 27.400

 51 z\_rel4 5 22.640 5.3984 2.4142 .23845 16.200 29.200 13.000

 60 z\_rel5 5 32.080 10.560 4.7224 .32917 19.500 43.000 23.500

 69 z\_rel6 4 40.475 5.0408 2.5204 .12454 36.200 47.600 11.400

 78 z\_rel7 1 43.700 0.0000 0.0000 0.0000 43.700 43.700 0.0000

 87 z\_rel8 16 35.956 4.2417 1.0604 .11797 26.600 46.800 20.200

 99 M1pz 16 71.677 23.757 5.9392 .33144 38.650 126.72 88.070

 100 M3pz 16 192.95 38.738 9.6845 .20077 129.62 275.08 145.46

 101 D13pz 16 -121.27 32.439 8.1096 -.26749 -200.72 -66.540 134.18

 102 M1z\_rel 16 19.361 4.1758 1.0440 .21568 13.567 27.000 13.433

 103 M3z\_rel 16 39.456 3.2734 .81836 .08296 36.000 48.350 12.350

 104 D13z\_rel 16 -20.095 5.0483 1.2621 -.25122 -27.570 -10.000 17.570

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* D13pz \* ( 101) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 -45.000)

 -60.000) \*

 -75.000) \*

 -90.000) M

 -105.000) \* M\*

 -120.000)\* \*\* \*\*

 -135.000)M N

 -150.000) \* \*\*

 -165.000)

 -180.000) N

 -195.000) \*

 -210.000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -128.712 -173.600 -135.056 -87.683 -106.487

 STD.DEV. 5.123 38.346 21.161 19.708 18.318

 S. E. M. 3.622 27.115 10.581 11.379 8.192

 MAXIMUM -125.090 -146.485 -115.033 -66.540 -78.580

 MINIMUM -132.335 -200.715 -154.740 -105.545 -125.605

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -1.3E+2

 | pferd 9235.1738 3 3078.3914 5.96 0.0243 | STD. DEV. 35.850

 | ERROR 3616.9421 7 516.7060 | S. E. M. 10.809

 |--------------------------------------------------------------------------| MAXIMUM -66.540

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -2.0E+2

 | WELCH 3, 3 3.59 0.1606 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 2 5.15 0.1668 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 7.14 0.0155 | ROBUST S.D. 34.942

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 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 HISTOGRAM OF \* D13z\_rel \* ( 104) GROUPED BY \* pferd \* ( 2)

 \*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*

 CASES WITH

 UNUSED

 VALUES FOR

 \*7 \*8 \*9 \*10 pferd

 MIDPOINTS.......................+.......................+.......................+.......................+.......................+

 -9.0000)

 -10.8000) \*

 -12.6000) \*\*

 -14.4000)

 -16.2000)\* N

 -18.0000) N \*\*

 -19.8000)N \*

 -21.6000) \* \* \* \*

 -23.4000)\* N N \*

 -25.2000) \*

 -27.0000) \* \*

 -28.8000)

 LEGEND FOR GROUP MEANS: M - MEAN COINCIDES WITH AN ASTERISK

 N - MEAN DOES NOT COINCIDE WITH ANY ASTERISK

 MEAN -20.025 -23.925 -23.821 -18.483 -16.578

 STD.DEV. 4.207 4.561 3.325 7.405 3.407

 S. E. M. 2.975 3.225 1.663 4.275 1.524

 MAXIMUM -17.050 -20.700 -19.930 -10.000 -12.800

 MINIMUM -23.000 -27.150 -27.570 -23.650 -20.800

 CASES EXCL. ( 0) ( 0) ( 0) ( 0) ( 0)

 CASES INCL. 2 2 4 3 5

 ---------------------------------------------------------------------------- ALL GROUPS COMBINED

 | ANALYSIS OF VARIANCE TABLE FOR MEANS TAIL | (EXCEPT CASES WITH UNUSED

 | SOURCE SUM OF SQUARES DF MEAN SQUARE F VALUE PROBABILITY | VALUES FOR VARIABLE pferd )

 | -------- -------------- ---- ----------- ------- ----------- | MEAN -21.694

 | pferd 64.5447 3 21.5149 0.83 0.5180 | STD. DEV. 4.959

 | ERROR 181.3358 7 25.9051 | S. E. M. 1.495

 |--------------------------------------------------------------------------| MAXIMUM -10.000

 | EQUALITY OF MEANS TESTS; VARIANCES ARE NOT ASSUMED TO BE EQUAL | MINIMUM -27.570

 | WELCH 3, 3 0.53 0.6925 | CASES EXCLUDED ( 5)

 | BROWN-FORSYTHE 3, 5 0.82 0.5348 | CASES INCLUDED 11

 |--------------------------------------------------------------------------|

 | LEVENE'S TEST FOR VARIANCES 3, 7 2.10 0.1882 | ROBUST S.D. 4.564

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 / FINISH

 PROGRAM TERMINATED