**General Linear Model**

|  |  |  |
| --- | --- | --- |
| *Between-Subjects Factors* | | |
|  | | N |
| Combinations | 0 0 0 0 | 209 |
| 1 0 1 0 | 145 |
| 1 1 0 0 | 168 |
| 1 1 0 1 | 139 |
| 2 0 1 0 | 43 |
| 2 0 2 0 | 30 |
| 2 1 0 0 | 59 |
| 2 1 0 1 | 53 |
| 2 1 1 0 | 60 |
| 2 1 1 1 | 42 |
| 2 2 0 0 | 29 |
| 2 2 0 1 | 63 |

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| --- | --- |
| *Box's Test of Equality of Covariance Matricesa* | |
| Box's M | 1353.935 |
| F | 1.444 |
| df1 | 858 |
| df2 | 162305.127 |
| Sig. | .000 |

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| --- |
| Tests the null hypothesis that the observed covariance matrices of the dependent variables are equal across groups.a |
| a. Design: Intercept + Combinations |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| *Multivariate Testsa* | | | | | | | |
| Effect | | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |
| Intercept | Pillai's Trace | .969 | 2639.490b | 12.000 | 1017.000 | .000 | .969 |
| Wilks' Lambda | .031 | 2639.490b | 12.000 | 1017.000 | .000 | .969 |
| Hotelling's Trace | 31.144 | 2639.490b | 12.000 | 1017.000 | .000 | .969 |
| Roy's Largest Root | 31.144 | 2639.490b | 12.000 | 1017.000 | .000 | .969 |
| Combinations | Pillai's Trace | .396 | 3.196 | 132.000 | 11297.000 | .000 | .036 |
| Wilks' Lambda | .654 | 3.365 | 132.000 | 8341.357 | .000 | .038 |
| Hotelling's Trace | .457 | 3.518 | 132.000 | 11167.000 | .000 | .040 |
| Roy's Largest Root | .248 | 21.225c | 12.000 | 1027.000 | .000 | .199 |

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| a. Design: Intercept + Combinations |
| b. Exact statistic |
| c. The statistic is an upper bound on F that yields a lower bound on the significance level. |

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| --- | --- | --- | --- | --- | --- |
| *Levene's Test of Equality of Error Variancesa* | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| BW-dir | Based on Mean | .808 | 7 | 1032 | .581 |
| Based on Median | .810 | 7 | 1032 | .579 |
| Based on Median and with adjusted df | .810 | 7 | 1007.746 | .579 |
| Based on trimmed mean | .813 | 7 | 1032 | .577 |
| Wean dir | Based on Mean | 1.307 | 7 | 1032 | .244 |
| Based on Median | 1.167 | 7 | 1032 | .319 |
| Based on Median and with adjusted df | 1.167 | 7 | 984.188 | .319 |
| Based on trimmed mean | 1.290 | 7 | 1032 | .252 |
| Mature wt | Based on Mean | 3.021 | 7 | 1032 | .004 |
| Based on Median | 2.963 | 7 | 1032 | .004 |
| Based on Median and with adjusted df | 2.963 | 7 | 981.398 | .004 |
| Based on trimmed mean | 3.047 | 7 | 1032 | .004 |
| ADG | Based on Mean | .360 | 7 | 1032 | .925 |
| Based on Median | .308 | 7 | 1032 | .951 |
| Based on Median and with adjusted df | .308 | 7 | 1014.780 | .951 |
| Based on trimmed mean | .334 | 7 | 1032 | .939 |
| FCR | Based on Mean | 1.479 | 7 | 1032 | .171 |
| Based on Median | 1.416 | 7 | 1032 | .195 |
| Based on Median and with adjusted df | 1.416 | 7 | 988.908 | .195 |
| Based on trimmed mean | 1.475 | 7 | 1032 | .172 |
| Fat | Based on Mean | 4.464 | 7 | 1032 | .000 |
| Based on Median | 4.429 | 7 | 1032 | .000 |
| Based on Median and with adjusted df | 4.429 | 7 | 981.818 | .000 |
| Based on trimmed mean | 4.494 | 7 | 1032 | .000 |
| EMA | Based on Mean | 1.115 | 7 | 1032 | .351 |
| Based on Median | 1.180 | 7 | 1032 | .311 |
| Based on Median and with adjusted df | 1.180 | 7 | 991.282 | .311 |
| Based on trimmed mean | 1.150 | 7 | 1032 | .329 |
| Marb | Based on Mean | .689 | 7 | 1032 | .682 |
| Based on Median | .792 | 7 | 1032 | .594 |
| Based on Median and with adjusted df | .792 | 7 | 970.976 | .594 |
| Based on trimmed mean | .695 | 7 | 1032 | .676 |
| afc\_ebv | Based on Mean | 1.866 | 7 | 1032 | .072 |
| Based on Median | 1.686 | 7 | 1032 | .109 |
| Based on Median and with adjusted df | 1.686 | 7 | 994.212 | .109 |
| Based on trimmed mean | 1.835 | 7 | 1032 | .077 |
| icp\_ebv | Based on Mean | 3.137 | 7 | 1032 | .003 |
| Based on Median | 2.914 | 7 | 1032 | .005 |
| Based on Median and with adjusted df | 2.914 | 7 | 914.518 | .005 |
| Based on trimmed mean | 2.988 | 7 | 1032 | .004 |
| skr\_ebv | Based on Mean | 1.089 | 7 | 1032 | .368 |
| Based on Median | 1.045 | 7 | 1032 | .398 |
| Based on Median and with adjusted df | 1.045 | 7 | 1010.174 | .398 |
| Based on trimmed mean | 1.084 | 7 | 1032 | .371 |
| Longevity | Based on Mean | 1.057 | 7 | 1032 | .389 |
| Based on Median | 1.046 | 7 | 1032 | .397 |
| Based on Median and with adjusted df | 1.046 | 7 | 1017.711 | .397 |
| Based on trimmed mean | 1.071 | 7 | 1032 | .380 |

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| Tests the null hypothesis that the error variance of the dependent variable is equal across groups.a |
| a. Design: Intercept + Combinations |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| *Tests of Between-Subjects Effects* | | | | | | | |
| Source | Dependent Variable | Type III Sum of Squares | df | Mean Square | F | Sig. | Partial Eta Squared |
| Corrected Model | BW-dir | 73.900a | 11 | 6.718 | 3.454 | .000 | .036 |
| Wean dir | 920.296b | 11 | 83.663 | 2.267 | .010 | .024 |
| Mature wt | 3401.380c | 11 | 309.216 | 1.565 | .104 | .016 |
| ADG | 81770.430d | 11 | 7433.675 | 2.107 | .018 | .022 |
| FCR | 22943.174e | 11 | 2085.743 | 4.901 | .000 | .050 |
| Fat | 141.550f | 11 | 12.868 | 4.612 | .000 | .047 |
| EMA | 67.094g | 11 | 6.099 | 2.953 | .001 | .031 |
| Marb | 41.055h | 11 | 3.732 | 4.492 | .000 | .046 |
| afc\_ebv | 3091.959i | 11 | 281.087 | 3.263 | .000 | .034 |
| icp\_ebv | 466.523j | 11 | 42.411 | 4.914 | .000 | .050 |
| skr\_ebv | 1923.821k | 11 | 174.893 | 2.526 | .004 | .026 |
| Longevity | 1486.883l | 11 | 135.171 | 6.664 | .000 | .067 |
| Intercept | BW-dir | 1254.946 | 1 | 1254.946 | 645.133 | .000 | .386 |
| Wean dir | 186517.160 | 1 | 186517.160 | 5054.850 | .000 | .831 |
| Mature wt | 122753.180 | 1 | 122753.180 | 621.138 | .000 | .377 |
| ADG | 11197198.148 | 1 | 11197198.148 | 3173.827 | .000 | .755 |
| FCR | 1895333.512 | 1 | 1895333.512 | 4454.023 | .000 | .812 |
| Fat | 88.052 | 1 | 88.052 | 31.557 | .000 | .030 |
| EMA | 1121.568 | 1 | 1121.568 | 543.090 | .000 | .346 |
| Marb | .137 | 1 | .137 | .165 | .685 | .000 |
| afc\_ebv | 40998.978 | 1 | 40998.978 | 475.872 | .000 | .316 |
| icp\_ebv | 5079.394 | 1 | 5079.394 | 588.528 | .000 | .364 |
| skr\_ebv | 127325.829 | 1 | 127325.829 | 1839.200 | .000 | .641 |
| Longevity | 532800.485 | 1 | 532800.485 | 26268.758 | .000 | .962 |
| Combinations | BW-dir | 73.900 | 11 | 6.718 | 3.454 | .000 | .036 |
| Wean dir | 920.296 | 11 | 83.663 | 2.267 | .010 | .024 |
| Mature wt | 3401.380 | 11 | 309.216 | 1.565 | .104 | .016 |
| ADG | 81770.430 | 11 | 7433.675 | 2.107 | .018 | .022 |
| FCR | 22943.174 | 11 | 2085.743 | 4.901 | .000 | .050 |
| Fat | 141.550 | 11 | 12.868 | 4.612 | .000 | .047 |
| EMA | 67.094 | 11 | 6.099 | 2.953 | .001 | .031 |
| Marb | 41.055 | 11 | 3.732 | 4.492 | .000 | .046 |
| afc\_ebv | 3091.959 | 11 | 281.087 | 3.263 | .000 | .034 |
| icp\_ebv | 466.523 | 11 | 42.411 | 4.914 | .000 | .050 |
| skr\_ebv | 1923.821 | 11 | 174.893 | 2.526 | .004 | .026 |
| Longevity | 1486.883 | 11 | 135.171 | 6.664 | .000 | .067 |
| Error | BW-dir | 1999.719 | 1028 | 1.945 |  |  |  |
| Wean dir | 37931.814 | 1028 | 36.899 |  |  |  |
| Mature wt | 203159.841 | 1028 | 197.626 |  |  |  |
| ADG | 3626763.226 | 1028 | 3527.980 |  |  |  |
| FCR | 437447.831 | 1028 | 425.533 |  |  |  |
| Fat | 2868.326 | 1028 | 2.790 |  |  |  |
| EMA | 2122.987 | 1028 | 2.065 |  |  |  |
| Marb | 854.166 | 1028 | .831 |  |  |  |
| afc\_ebv | 88567.853 | 1028 | 86.155 |  |  |  |
| icp\_ebv | 8872.337 | 1028 | 8.631 |  |  |  |
| skr\_ebv | 71167.343 | 1028 | 69.229 |  |  |  |
| Longevity | 20850.582 | 1028 | 20.283 |  |  |  |
| Total | BW-dir | 3759.954 | 1040 |  |  |  |  |
| Wean dir | 313468.674 | 1040 |  |  |  |  |
| Mature wt | 386039.622 | 1040 |  |  |  |  |
| ADG | 20383571.153 | 1040 |  |  |  |  |
| FCR | 3176443.707 | 1040 |  |  |  |  |
| Fat | 3137.100 | 1040 |  |  |  |  |
| EMA | 3645.197 | 1040 |  |  |  |  |
| Marb | 895.943 | 1040 |  |  |  |  |
| afc\_ebv | 155071.008 | 1040 |  |  |  |  |
| icp\_ebv | 16646.505 | 1040 |  |  |  |  |
| skr\_ebv | 271215.142 | 1040 |  |  |  |  |
| Longevity | 845467.521 | 1040 |  |  |  |  |
| Corrected Total | BW-dir | 2073.619 | 1039 |  |  |  |  |
| Wean dir | 38852.110 | 1039 |  |  |  |  |
| Mature wt | 206561.221 | 1039 |  |  |  |  |
| ADG | 3708533.656 | 1039 |  |  |  |  |
| FCR | 460391.005 | 1039 |  |  |  |  |
| Fat | 3009.876 | 1039 |  |  |  |  |
| EMA | 2190.080 | 1039 |  |  |  |  |
| Marb | 895.221 | 1039 |  |  |  |  |
| afc\_ebv | 91659.812 | 1039 |  |  |  |  |
| icp\_ebv | 9338.860 | 1039 |  |  |  |  |
| skr\_ebv | 73091.164 | 1039 |  |  |  |  |
| Longevity | 22337.466 | 1039 |  |  |  |  |

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| --- |
| a. R Squared = .036 (Adjusted R Squared = .025) |
| b. R Squared = .024 (Adjusted R Squared = .013) |
| c. R Squared = .016 (Adjusted R Squared = .006) |
| d. R Squared = .022 (Adjusted R Squared = .012) |
| e. R Squared = .050 (Adjusted R Squared = .040) |
| f. R Squared = .047 (Adjusted R Squared = .037) |
| g. R Squared = .031 (Adjusted R Squared = .020) |
| h. R Squared = .046 (Adjusted R Squared = .036) |
| i. R Squared = .034 (Adjusted R Squared = .023) |
| j. R Squared = .050 (Adjusted R Squared = .040) |
| k. R Squared = .026 (Adjusted R Squared = .016) |
| l. R Squared = .067 (Adjusted R Squared = .057) |

**Estimated Marginal Means**

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| --- | --- | --- | --- | --- | --- |
| *Combinations* | | | | | |
| Dependent Variable | Combinations | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| BW-dir | 0 0 0 0 | 1.177 | .096 | .987 | 1.366 |
| 1 0 1 0 | 1.077 | .116 | .850 | 1.304 |
| 1 1 0 0 | 1.021 | .108 | .810 | 1.232 |
| 1 1 0 1 | 1.530 | .118 | 1.298 | 1.762 |
| 2 0 1 0 | 1.376 | .213 | .958 | 1.793 |
| 2 0 2 0 | .954 | .255 | .454 | 1.453 |
| 2 1 0 0 | 1.416 | .182 | 1.060 | 1.772 |
| 2 1 0 1 | 1.884 | .192 | 1.508 | 2.260 |
| 2 1 1 0 | .955 | .180 | .602 | 1.309 |
| 2 1 1 1 | 1.827 | .215 | 1.404 | 2.249 |
| 2 2 0 0 | 1.547 | .259 | 1.039 | 2.056 |
| 2 2 0 1 | 1.395 | .176 | 1.050 | 1.740 |
| Wean dir | 0 0 0 0 | 15.860 | .420 | 15.036 | 16.685 |
| 1 0 1 0 | 15.630 | .504 | 14.640 | 16.620 |
| 1 1 0 0 | 15.354 | .469 | 14.435 | 16.274 |
| 1 1 0 1 | 17.540 | .515 | 16.529 | 18.551 |
| 2 0 1 0 | 17.242 | .926 | 15.425 | 19.060 |
| 2 0 2 0 | 14.901 | 1.109 | 12.725 | 17.078 |
| 2 1 0 0 | 17.053 | .791 | 15.501 | 18.605 |
| 2 1 0 1 | 18.594 | .834 | 16.957 | 20.232 |
| 2 1 1 0 | 15.834 | .784 | 14.295 | 17.373 |
| 2 1 1 1 | 16.655 | .937 | 14.816 | 18.494 |
| 2 2 0 0 | 16.633 | 1.128 | 14.419 | 18.846 |
| 2 2 0 1 | 15.700 | .765 | 14.199 | 17.202 |
| Mature wt | 0 0 0 0 | 12.368 | .972 | 10.460 | 14.276 |
| 1 0 1 0 | 12.919 | 1.167 | 10.628 | 15.210 |
| 1 1 0 0 | 11.281 | 1.085 | 9.153 | 13.410 |
| 1 1 0 1 | 15.471 | 1.192 | 13.131 | 17.811 |
| 2 0 1 0 | 14.488 | 2.144 | 10.282 | 18.695 |
| 2 0 2 0 | 9.662 | 2.567 | 4.626 | 14.699 |
| 2 1 0 0 | 16.662 | 1.830 | 13.071 | 20.254 |
| 2 1 0 1 | 15.563 | 1.931 | 11.774 | 19.353 |
| 2 1 1 0 | 12.539 | 1.815 | 8.977 | 16.100 |
| 2 1 1 1 | 14.609 | 2.169 | 10.353 | 18.866 |
| 2 2 0 0 | 13.417 | 2.610 | 8.295 | 18.540 |
| 2 2 0 1 | 10.833 | 1.771 | 7.358 | 14.308 |
| ADG | 0 0 0 0 | 129.170 | 4.109 | 121.108 | 137.233 |
| 1 0 1 0 | 122.681 | 4.933 | 113.002 | 132.360 |
| 1 1 0 0 | 118.439 | 4.583 | 109.446 | 127.431 |
| 1 1 0 1 | 131.115 | 5.038 | 121.229 | 141.001 |
| 2 0 1 0 | 144.321 | 9.058 | 126.547 | 162.095 |
| 2 0 2 0 | 118.265 | 10.844 | 96.985 | 139.544 |
| 2 1 0 0 | 139.931 | 7.733 | 124.757 | 155.104 |
| 2 1 0 1 | 145.468 | 8.159 | 129.459 | 161.478 |
| 2 1 1 0 | 125.308 | 7.668 | 110.261 | 140.355 |
| 2 1 1 1 | 110.941 | 9.165 | 92.957 | 128.926 |
| 2 2 0 0 | 125.924 | 11.030 | 104.281 | 147.568 |
| 2 2 0 1 | 114.790 | 7.483 | 100.106 | 129.475 |
| FCR | 0 0 0 0 | -47.567 | 1.427 | -50.367 | -44.767 |
| 1 0 1 0 | -47.299 | 1.713 | -50.661 | -43.938 |
| 1 1 0 0 | -47.415 | 1.592 | -50.538 | -44.292 |
| 1 1 0 1 | -57.248 | 1.750 | -60.682 | -53.815 |
| 2 0 1 0 | -56.911 | 3.146 | -63.084 | -50.738 |
| 2 0 2 0 | -47.414 | 3.766 | -54.804 | -40.024 |
| 2 1 0 0 | -56.357 | 2.686 | -61.627 | -51.087 |
| 2 1 0 1 | -60.911 | 2.834 | -66.471 | -55.350 |
| 2 1 1 0 | -51.500 | 2.663 | -56.725 | -46.274 |
| 2 1 1 1 | -57.399 | 3.183 | -63.645 | -51.153 |
| 2 2 0 0 | -49.124 | 3.831 | -56.640 | -41.607 |
| 2 2 0 1 | -48.832 | 2.599 | -53.932 | -43.732 |
| Fat | 0 0 0 0 | -.341 | .116 | -.567 | -.114 |
| 1 0 1 0 | -.166 | .139 | -.439 | .106 |
| 1 1 0 0 | -.109 | .129 | -.362 | .144 |
| 1 1 0 1 | -.571 | .142 | -.849 | -.293 |
| 2 0 1 0 | .012 | .255 | -.488 | .512 |
| 2 0 2 0 | -.257 | .305 | -.855 | .342 |
| 2 1 0 0 | -.114 | .217 | -.541 | .312 |
| 2 1 0 1 | -.909 | .229 | -1.359 | -.459 |
| 2 1 1 0 | -.043 | .216 | -.467 | .380 |
| 2 1 1 1 | -1.124 | .258 | -1.630 | -.618 |
| 2 2 0 0 | .511 | .310 | -.098 | 1.119 |
| 2 2 0 1 | -1.168 | .210 | -1.581 | -.755 |
| EMA | 0 0 0 0 | .924 | .099 | .729 | 1.119 |
| 1 0 1 0 | 1.101 | .119 | .867 | 1.336 |
| 1 1 0 0 | 1.024 | .111 | .806 | 1.242 |
| 1 1 0 1 | 1.372 | .122 | 1.133 | 1.611 |
| 2 0 1 0 | 1.247 | .219 | .817 | 1.677 |
| 2 0 2 0 | 1.676 | .262 | 1.161 | 2.191 |
| 2 1 0 0 | 1.117 | .187 | .750 | 1.484 |
| 2 1 0 1 | 1.950 | .197 | 1.562 | 2.337 |
| 2 1 1 0 | 1.181 | .186 | .817 | 1.545 |
| 2 1 1 1 | 1.302 | .222 | .867 | 1.738 |
| 2 2 0 0 | 1.002 | .267 | .478 | 1.525 |
| 2 2 0 1 | 1.380 | .181 | 1.024 | 1.735 |
| Marb | 0 0 0 0 | .102 | .063 | -.022 | .226 |
| 1 0 1 0 | .172 | .076 | .023 | .320 |
| 1 1 0 0 | .221 | .070 | .083 | .359 |
| 1 1 0 1 | -.194 | .077 | -.346 | -.043 |
| 2 0 1 0 | -.148 | .139 | -.421 | .125 |
| 2 0 2 0 | .173 | .166 | -.154 | .500 |
| 2 1 0 0 | -.060 | .119 | -.293 | .173 |
| 2 1 0 1 | -.109 | .125 | -.355 | .137 |
| 2 1 1 0 | .243 | .118 | .012 | .474 |
| 2 1 1 1 | -.441 | .141 | -.717 | -.165 |
| 2 2 0 0 | .192 | .169 | -.140 | .524 |
| 2 2 0 1 | -.319 | .115 | -.544 | -.093 |
| afc\_ebv | 0 0 0 0 | -8.084 | .642 | -9.344 | -6.825 |
| 1 0 1 0 | -8.315 | .771 | -9.827 | -6.802 |
| 1 1 0 0 | -9.035 | .716 | -10.440 | -7.629 |
| 1 1 0 1 | -6.463 | .787 | -8.007 | -4.918 |
| 2 0 1 0 | -7.679 | 1.415 | -10.457 | -4.902 |
| 2 0 2 0 | -13.152 | 1.695 | -16.478 | -9.827 |
| 2 1 0 0 | -6.701 | 1.208 | -9.072 | -4.330 |
| 2 1 0 1 | -5.883 | 1.275 | -8.385 | -3.381 |
| 2 1 1 0 | -10.728 | 1.198 | -13.080 | -8.377 |
| 2 1 1 1 | -3.821 | 1.432 | -6.631 | -1.010 |
| 2 2 0 0 | -6.299 | 1.724 | -9.682 | -2.917 |
| 2 2 0 1 | -6.201 | 1.169 | -8.495 | -3.906 |
| icp\_ebv | 0 0 0 0 | -2.471 | .203 | -2.870 | -2.073 |
| 1 0 1 0 | -2.883 | .244 | -3.361 | -2.404 |
| 1 1 0 0 | -3.157 | .227 | -3.602 | -2.712 |
| 1 1 0 1 | -1.975 | .249 | -2.464 | -1.486 |
| 2 0 1 0 | -2.000 | .448 | -2.879 | -1.121 |
| 2 0 2 0 | -4.212 | .536 | -5.265 | -3.160 |
| 2 1 0 0 | -3.286 | .382 | -4.037 | -2.536 |
| 2 1 0 1 | -2.084 | .404 | -2.875 | -1.292 |
| 2 1 1 0 | -3.927 | .379 | -4.671 | -3.182 |
| 2 1 1 1 | -1.757 | .453 | -2.647 | -.868 |
| 2 2 0 0 | -3.188 | .546 | -4.258 | -2.117 |
| 2 2 0 1 | -1.569 | .370 | -2.296 | -.843 |
| skr\_ebv | 0 0 0 0 | 14.553 | .576 | 13.423 | 15.682 |
| 1 0 1 0 | 14.076 | .691 | 12.720 | 15.432 |
| 1 1 0 0 | 13.990 | .642 | 12.730 | 15.249 |
| 1 1 0 1 | 13.423 | .706 | 12.038 | 14.808 |
| 2 0 1 0 | 16.358 | 1.269 | 13.868 | 18.848 |
| 2 0 2 0 | 13.111 | 1.519 | 10.130 | 16.092 |
| 2 1 0 0 | 15.394 | 1.083 | 13.268 | 17.519 |
| 2 1 0 1 | 13.991 | 1.143 | 11.749 | 16.234 |
| 2 1 1 0 | 12.616 | 1.074 | 10.508 | 14.724 |
| 2 1 1 1 | 8.730 | 1.284 | 6.211 | 11.250 |
| 2 2 0 0 | 14.272 | 1.545 | 11.240 | 17.303 |
| 2 2 0 1 | 12.252 | 1.048 | 10.195 | 14.309 |
| Longevity | 0 0 0 0 | 29.335 | .312 | 28.724 | 29.947 |
| 1 0 1 0 | 27.142 | .374 | 26.408 | 27.876 |
| 1 1 0 0 | 27.472 | .347 | 26.791 | 28.154 |
| 1 1 0 1 | 29.269 | .382 | 28.519 | 30.018 |
| 2 0 1 0 | 29.141 | .687 | 27.794 | 30.489 |
| 2 0 2 0 | 25.494 | .822 | 23.880 | 27.107 |
| 2 1 0 0 | 27.463 | .586 | 26.312 | 28.613 |
| 2 1 0 1 | 29.636 | .619 | 28.422 | 30.850 |
| 2 1 1 0 | 27.118 | .581 | 25.977 | 28.259 |
| 2 1 1 1 | 27.440 | .695 | 26.076 | 28.804 |
| 2 2 0 0 | 24.921 | .836 | 23.279 | 26.562 |
| 2 2 0 1 | 28.522 | .567 | 27.409 | 29.636 |

**Post Hoc Tests**

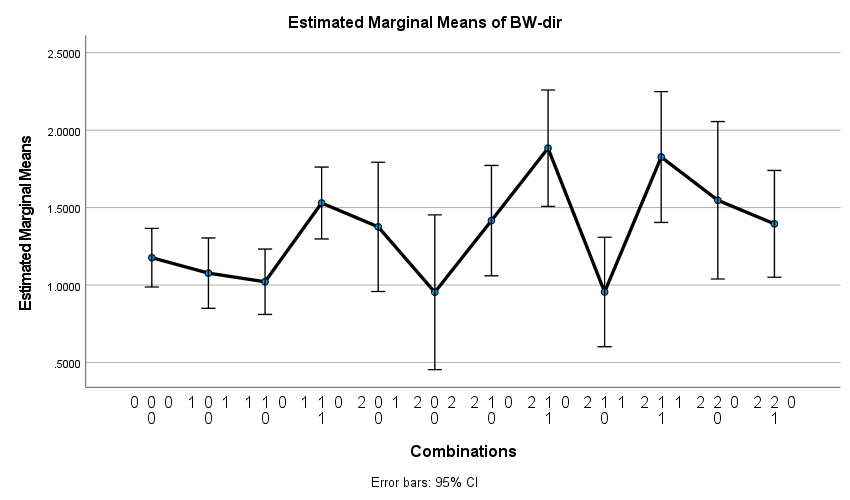
**Combinations**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Multiple Comparisons* | | | | | | | |
| Dunnett t (2-sided)a | | | | | | | |
| Dependent Variable | (I) Combinations | (J) Combinations | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| BW-dir | 1 0 1 0 | 0 0 0 0 | -.099718 | .1507414 | .999 | -.524380 | .324944 |
| 1 1 0 0 | 0 0 0 0 | -.155544 | .1445210 | .960 | -.562682 | .251594 |
| 1 1 0 1 | 0 0 0 0 | .353366 | .1526501 | .188 | -.076673 | .783405 |
| 2 0 1 0 | 0 0 0 0 | .199016 | .2335505 | .993 | -.458933 | .856964 |
| 2 0 2 0 | 0 0 0 0 | -.223167 | .2723035 | .995 | -.990288 | .543954 |
| 2 1 0 0 | 0 0 0 0 | .239499 | .2056157 | .933 | -.339752 | .818751 |
| 2 1 0 1 | 0 0 0 0 | .707057\* | .2145001 | .011 | .102777 | 1.311337 |
| 2 1 1 0 | 0 0 0 0 | -.221224 | .2042751 | .958 | -.796698 | .354251 |
| 2 1 1 1 | 0 0 0 0 | .650051 | .2358452 | .060 | -.014361 | 1.314464 |
| 2 2 0 0 | 0 0 0 0 | .370692 | .2763785 | .851 | -.407909 | 1.149294 |
| 2 2 0 1 | 0 0 0 0 | .218598 | .2004606 | .956 | -.346130 | .783327 |
| Wean dir | 1 0 1 0 | 0 0 0 0 | -.230043 | .6565227 | 1.000 | -2.079570 | 1.619484 |
| 1 1 0 0 | 0 0 0 0 | -.505766 | .6294310 | .996 | -2.278971 | 1.267440 |
| 1 1 0 1 | 0 0 0 0 | 1.679530 | .6648357 | .112 | -.193416 | 3.552476 |
| 2 0 1 0 | 0 0 0 0 | 1.382238 | 1.0171808 | .841 | -1.483319 | 4.247795 |
| 2 0 2 0 | 0 0 0 0 | -.958733 | 1.1859611 | .995 | -4.299770 | 2.382305 |
| 2 1 0 0 | 0 0 0 0 | 1.193195 | .8955163 | .856 | -1.329614 | 3.716004 |
| 2 1 0 1 | 0 0 0 0 | 2.734349\* | .9342107 | .036 | .102532 | 5.366166 |
| 2 1 1 0 | 0 0 0 0 | -.026141 | .8896775 | 1.000 | -2.532501 | 2.480219 |
| 2 1 1 1 | 0 0 0 0 | .794771 | 1.0271747 | .997 | -2.098940 | 3.688483 |
| 2 2 0 0 | 0 0 0 0 | .772875 | 1.2037092 | .999 | -2.618162 | 4.163912 |
| 2 2 0 1 | 0 0 0 0 | -.159726 | .8730644 | 1.000 | -2.619284 | 2.299833 |
| Mature wt | 1 0 1 0 | 0 0 0 0 | .550722 | 1.5193816 | 1.000 | -3.729613 | 4.831057 |
| 1 1 0 0 | 0 0 0 0 | -1.086634 | 1.4566837 | .998 | -5.190339 | 3.017072 |
| 1 1 0 1 | 0 0 0 0 | 3.102991 | 1.5386203 | .353 | -1.231542 | 7.437525 |
| 2 0 1 0 | 0 0 0 0 | 2.120190 | 2.3540478 | .989 | -4.511529 | 8.751910 |
| 2 0 2 0 | 0 0 0 0 | -2.705633 | 2.7446537 | .978 | -10.437750 | 5.026485 |
| 2 1 0 0 | 0 0 0 0 | 4.294306 | 2.0724813 | .318 | -1.544197 | 10.132809 |
| 2 1 0 1 | 0 0 0 0 | 3.195238 | 2.1620311 | .762 | -2.895540 | 9.286017 |
| 2 1 1 0 | 0 0 0 0 | .170611 | 2.0589687 | 1.000 | -5.629825 | 5.971047 |
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| 2 2 0 1 | 0 0 0 0 | -1.535094 | 2.0205212 | .997 | -7.227217 | 4.157029 |
| ADG | 1 0 1 0 | 0 0 0 0 | -6.489207 | 6.4195935 | .974 | -24.574203 | 11.595789 |
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| 1 1 0 1 | 0 0 0 0 | -9.6809\* | 2.25775 | .000 | -16.0413 | -3.3205 |
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| Fat | 1 0 1 0 | 0 0 0 0 | .17421 | .180535 | .982 | -.33438 | .68281 |
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| 2 0 1 0 | 0 0 0 0 | .323554 | .2406412 | .849 | -.354369 | 1.001478 |
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| 2 1 0 0 | 0 0 0 0 | .193567 | .2118582 | .988 | -.403271 | .790405 |
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| 1 1 0 0 | 0 0 0 0 | .11874 | .094453 | .895 | -.14735 | .38483 |
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| 2 1 1 0 | 0 0 0 0 | .14070 | .133506 | .965 | -.23541 | .51681 |
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| afc\_ebv | 1 0 1 0 | 0 0 0 0 | -.230380 | 1.0031965 | 1.000 | -3.056541 | 2.595781 |
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| 2 0 1 0 | 0 0 0 0 | .405355 | 1.5542984 | 1.000 | -3.973346 | 4.784056 |
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| 2 1 1 1 | 0 0 0 0 | -5.822317\* | 1.4069637 | .000 | -9.785953 | -1.858680 |
| 2 2 0 0 | 0 0 0 0 | -.281016 | 1.6487703 | 1.000 | -4.925859 | 4.363827 |
| 2 2 0 1 | 0 0 0 0 | -2.300971 | 1.1958724 | .418 | -5.669930 | 1.067988 |
| Longevity | 1 0 1 0 | 0 0 0 0 | -2.193311\* | .4867512 | .000 | -3.564565 | -.822057 |
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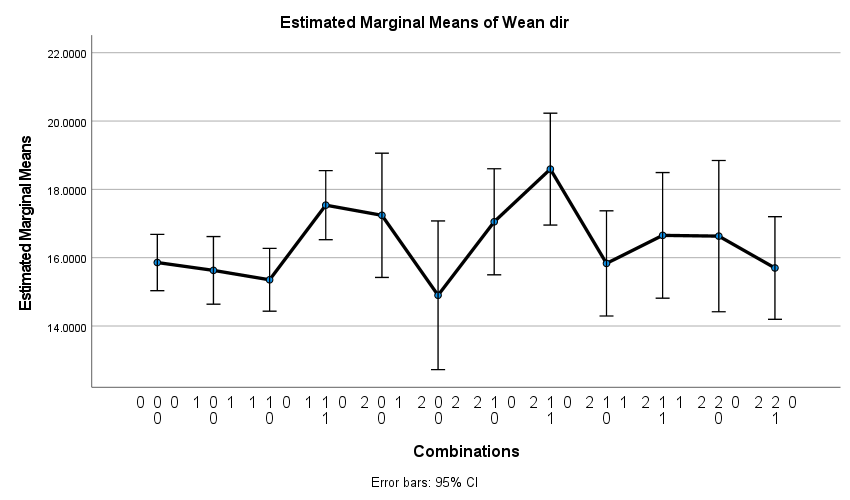
|  |
| --- |
| Based on observed means.  The error term is Mean Square(Error) = 20.283. |
| \*. The mean difference is significant at the ,05 level. |
| a. Dunnett t-tests treat one group as a control, and compare all other groups against it. |

**Profile Plots**

**BW-dir**



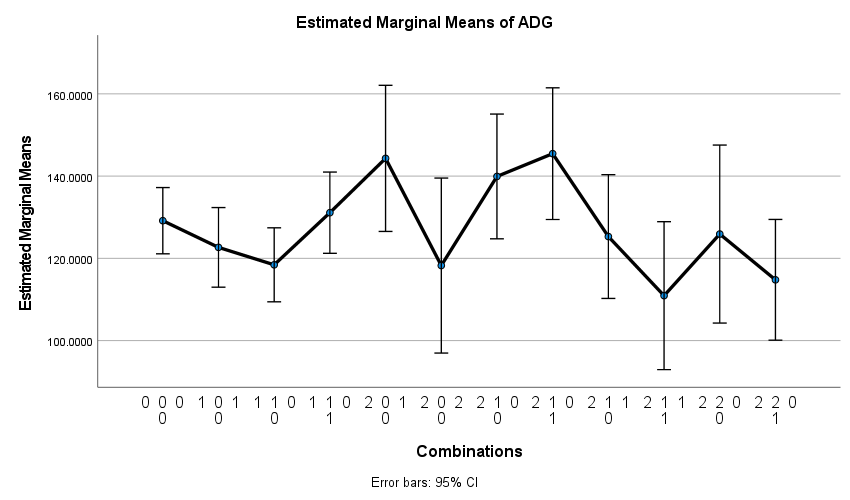
**Wean dir**



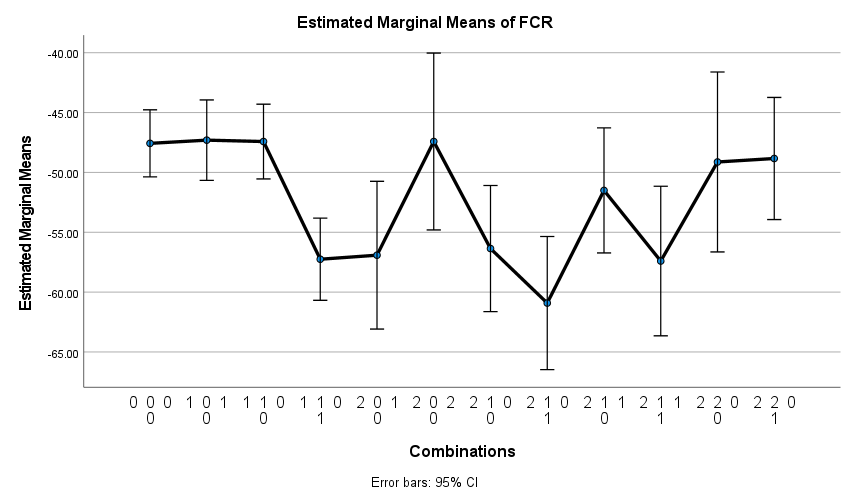
**Mature wt**



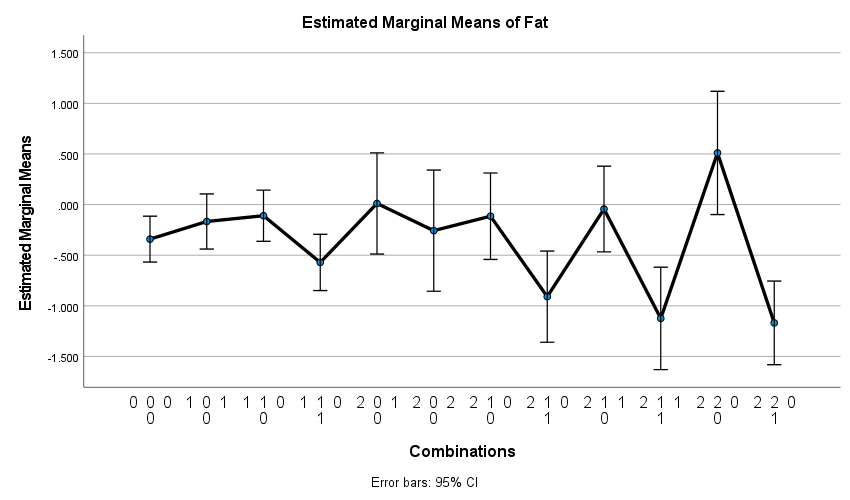
**ADG**



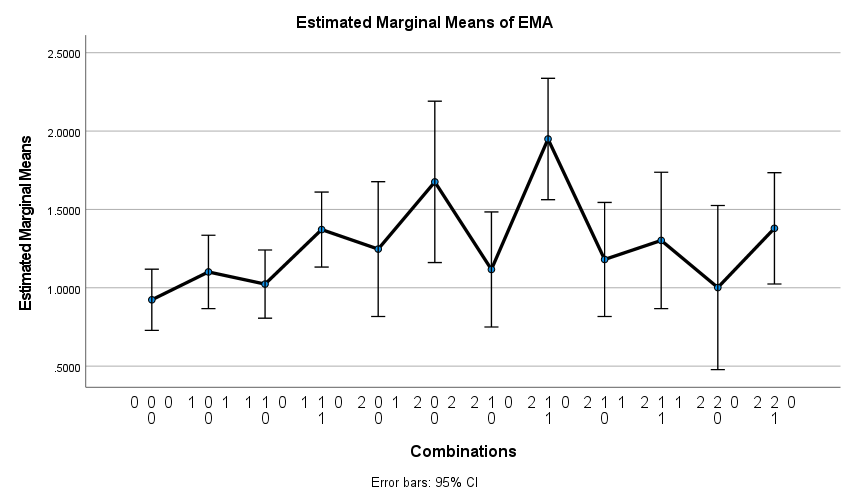
**FCR**



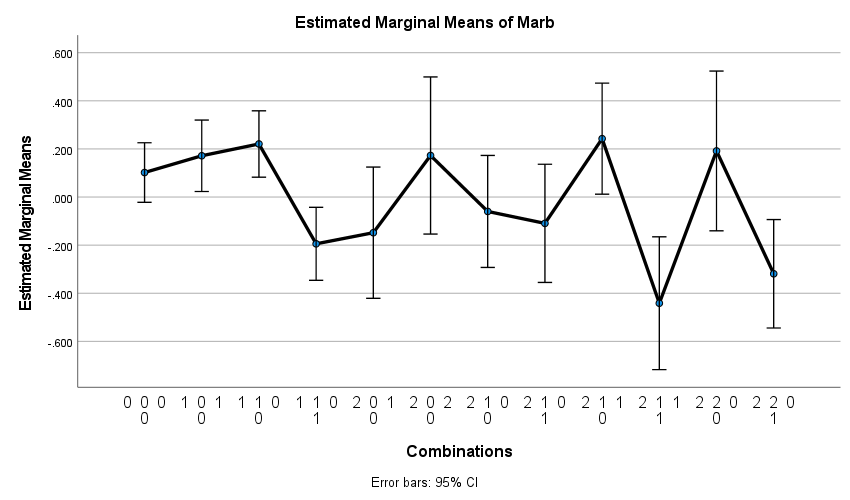
**Fat**



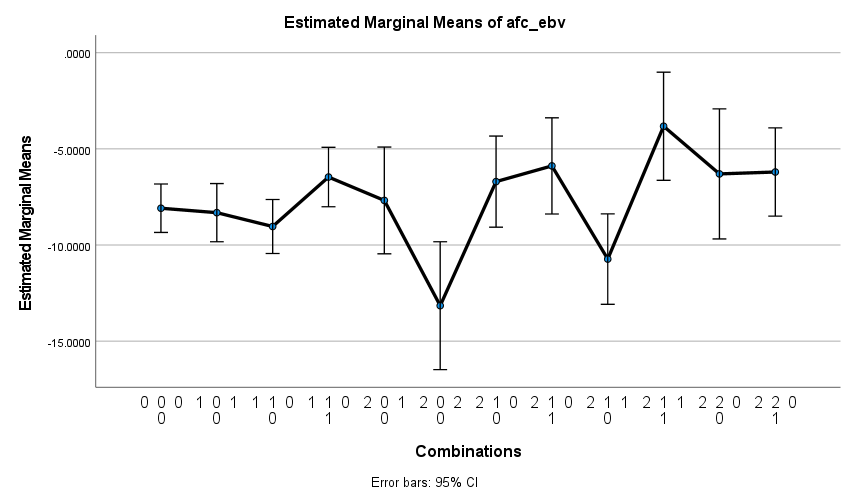
**EMA**



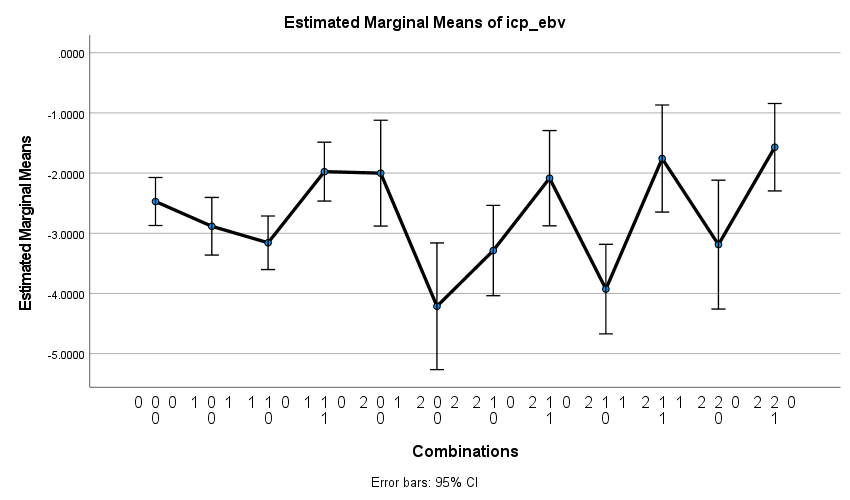
**Marb**



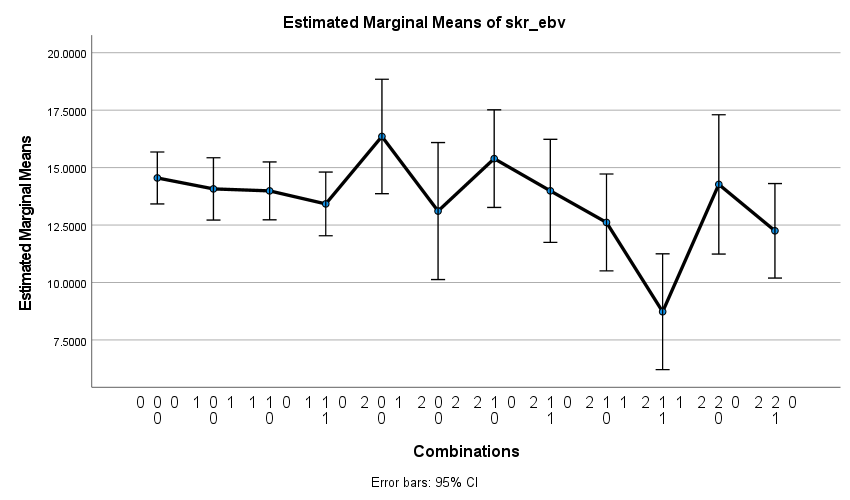
**afc\_ebv**



**icp\_ebv**



**skr\_ebv**



**Longevity**

