

Table 2: Regression of Cereals Production Function (sample size = 98)

| Regressand Estimation | (5) | | (6) | | (7) | | (8) | |
|--------------------------------------|--|--|--|--|--|--|--|--|
| | Net | | Gross | | Net | | Gross | |
| | OLS | GLS | OLS | GLS | OLS | GLS | OLS | GLS |
| R squared | 0.948 | 0.948 | 0.951 | 0.951 | 0.945 | 0.945 | 0.949 | 0.948 |
| Adjusted R squared | 0.943 | 0.943 | 0.947 | 0.947 | 0.940 | 0.940 | 0.944 | 0.944 |
| F-Test *1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Wald statistic *2 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| const. | <u>-3.211</u> 0.0002 0.0000 | <u>-3.149</u> 0.0003 0.0000 | <u>-3.043</u> 0.0003 0.0000 | <u>-2.971</u> 0.0004 0.0000 | <u>-0.858</u> 0.1512 0.1138 | <u>-0.765</u> 0.2012 0.1544 | <u>-0.811</u> 0.1592 0.1233 | <u>-0.639</u> 0.2681 0.2190 |
| | | 0.00 | | | | 0.00 | | |
| Capital (Combine) | <u>0.080</u> 0.0259 0.0204 | <u>0.074</u> 0.0392 0.0301 | <u>0.077</u> 0.0254 0.0249 | <u>0.076</u> 0.0289 0.0278 | <u>0.093</u> 0.0095 0.0129 | <u>0.083</u> 0.0219 0.0307 | <u>0.090</u> 0.0096 0.0156 | <u>0.084</u> 0.0157 0.0282 |
| | | 2.75 | | | | 2.62 | | |
| Capital (Tractor) | <u>0.108</u> 0.0099 0.0083 | <u>0.107</u> 0.0111 0.0095 | <u>0.109</u> 0.0072 0.0080 | <u>0.106</u> 0.0089 0.0097 | <u>0.121</u> 0.0051 0.0109 | <u>0.129</u> 0.0028 0.0082 | <u>0.121</u> 0.0036 0.0102 | <u>0.128</u> 0.0021 0.0086 |
| | | 3.44 | | | | 3.40 | | |
| Land | <u>0.907</u> 0.0000 0.0000 | <u>0.923</u> 0.0000 0.0000 | <u>0.910</u> 0.0000 0.0000 | <u>0.924</u> 0.0000 0.0000 | <u>0.906</u> 0.0000 0.0000 | <u>0.904</u> 0.0000 0.0000 | <u>0.909</u> 0.0000 0.0000 | <u>0.902</u> 0.0000 0.0000 |
| | | 4.13 | | | | 3.98 | | |
| Labor | <u>0.018</u> 0.7398 0.7430 | <u>0.006</u> 0.9075 0.9080 | <u>0.013</u> 0.8024 0.8050 | <u>-0.001</u> 0.9873 0.9870 | <u>-0.007</u> 0.8967 0.8895 | <u>-0.010</u> 0.8429 0.8321 | <u>-0.011</u> 0.8298 0.8209 | <u>-0.008</u> 0.8754 0.8704 |
| | | 3.71 | | | | 3.06 | | |
| Prep. standard diviation | <u>-0.370</u> 0.0039 0.0015 | <u>-0.381</u> 0.0030 0.0011 | <u>-0.351</u> 0.0045 0.0017 | <u>-0.361</u> 0.0035 0.0013 | <u>-0.059</u> 0.4029 0.4331 | <u>-0.060</u> 0.3956 0.4257 | <u>-0.058</u> 0.3985 0.4361 | <u>-0.081</u> 0.2375 0.2627 |
| | | 5.33 | | | | 1.61 | | |
| Temp. standard diviation | <u>-0.160</u> 0.0814 0.0478 | <u>-0.171</u> 0.0637 0.0342 | <u>-0.149</u> 0.0930 0.0596 | <u>-0.165</u> 0.0640 0.0384 | <u>-0.285</u> 0.0007 0.0003 | <u>-0.273</u> 0.0012 0.0004 | <u>-0.265</u> 0.0011 0.0004 | <u>-0.266</u> 0.0011 0.0005 |
| | | 2.36 | | | | 1.80 | | |
| Annual prep. | <u>0.348</u> 0.0075 0.0069 | <u>0.340</u> 0.0089 0.0074 | <u>0.330</u> 0.0085 0.0079 | <u>0.327</u> 0.0093 0.0080 | — | — | — | — |
| | | 4.72 | | | | | | |
| Average temp. | <u>0.259</u> 0.0682 0.0083 | <u>0.250</u> 0.0795 0.0117 | <u>0.233</u> 0.0898 0.0133 | <u>0.215</u> 0.1168 0.0239 | — | — | — | — |
| | | 1.96 | | | | | | |
| Deviation from the suitable prep. | — | — | — | — | <u>-0.026</u> 0.6092 0.5764 | <u>-0.031</u> 0.5518 0.5113 | <u>-0.031</u> 0.5331 0.4918 | <u>-0.035</u> 0.4888 0.4384 |
| | | | | | | 1.21 | | |
| Deviation from the suitable temp. | — | — | — | — | <u>-0.127</u> 0.0627 0.0489 | <u>-0.151</u> 0.0281 0.0241 | <u>-0.119</u> 0.0710 0.0534 | <u>-0.143</u> 0.0308 0.0243 |
| | | | | | | 1.15 | | |
| White test *3 | 0.085 | | 0.064 | | 0.058 | | 0.047 | |
| Test of strict exogeneity *4 | 1.000 | 0.550 | 1.000 | 0.412 | 1.000 | 0.945 | 1.000 | 0.131 |
| Shapiro-Wilk test *5 | 0.573 | 0.666 | 0.561 | 0.609 | 0.891 | 0.928 | 0.778 | 0.868 |

Note:
 Beginning at the top, Estimators, p-Value of t-Test in Finite-Sample Theory, p-Value of t-Test in Large-Sample Theory, and Variance Inflation Factor (VIF)
 *1 p-Value of F-test in Finite-Sample Theory
 *2 p-Value of Wald statistic in Large-Sample Theory
 *3 p-Value of White test
 *4 p-Value of the test which lets strictly exogeneity be the null hypothesis
 *5 p-Value of Shapiro-Wilk test