**表4-2 两熟制玉米农户生产基本情况**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 变量 |  | 总体 | | |  | 小规模 | | |  | 中等规模 | | |  | 大规模 | | |  |
|  | 均值 | 最大 | 最小 |  | 均值 | 最大 | 最小 |  | 均值 | 最大 | 最小 |  | 均值 | 最大 | 最小 |  |
| 单产（千克/亩） |  | 459.1 | 650.0 | 200.0 |  | 458.8 | 650.0 | 200.0 |  | 463.7 | 650.0 | 200.0 |  | 440.4 | 480.8 | 400.0 |  |
| 收获面积（亩） |  | 3.8 | 52.0 | 0.1 |  | 3.1 | 9.8 | 0.1 |  | 13.9 | 40.0 | 10.0 |  | 51.0 | 52.0 | 50.0 |  |
| 投工量（日/亩） |  | 13.9 | 75.0 | 1.4 |  | 14.5 | 75.0 | 1.4 | \*\*\* | 5.3 | 50.0 | 1.4 |  | 3.3 | 4.8 | 1.8 |  |
| 家庭投工量（日/亩） |  | 13.8 | 75.0 | 0.0 |  | 14.5 | 75.0 | 0.0 | \*\*\* | 5.2 | 50.0 | 0.0 |  | 1.9 | 1.9 | 1.8 |  |
| 雇佣投工量（日/亩） |  | 0.1 | 12.7 | 0.0 |  | 0.0 | 12.7 | 0.0 | \*\* | 0.1 | 12.7 | 0.0 | \*\*\* | 1.4 | 2.9 | 0.0 | \*\*\* |
| 肥料投入（元/亩） |  | 140.1 | 350.0 | 10.0 |  | 141.5 | 350.0 | 10.0 |  | 121.6 | 267.4 | 10.0 | \*\*\* | 195.4 | 230.8 | 160.0 | \*\*\* |
| 机械投入（元/亩） |  | 60.0 | 250.0 | 0.0 |  | 57.6 | 250.0 | 0.0 | \*\*\* | 91.2 | 240.0 | 0.0 |  | 142.8 | 157.7 | 128.0 |  |
| 其他投入（元/亩） |  | 94.9 | 167.5 | 46.7 |  | 95.5 | 167.5 | 46.7 | \*\*\* | 86.5 | 167.5 | 46.7 |  | 69.5 | 76.9 | 62.0 |  |
| 政策补贴（元/亩） |  | 100.8 | 431.0 | 0.0 |  | 102.0 | 431.0 | 0.0 | \*\*\* | 84.7 | 431.0 | 0.0 |  | 11.6 | 14.8 | 8.4 |  |
| 农业保险 |  | 0.2 | 1.0 | 0.0 |  | 0.2 | 1.0 | 0.0 | \*\*\* | 0.3 | 1.0 | 0.0 |  | 0.0 | 0.0 | 0.0 |  |
| 耕地细碎化（亩/块） |  | 1.6 | 50.0 | 0.0 |  | 1.5 | 23.0 | 0.0 | \*\*\* | 3.1 | 15.0 | 0.2 | \*\*\* | 30.3 | 50.0 | 10.6 | \*\*\* |
| 人口结构 |  | 0.7 | 2.8 | 0.0 |  | 0.7 | 2.8 | 0.0 |  | 0.7 | 2.8 | 0.0 |  | 0.3 | 0.7 | 0.0 |  |
| 兼业化水平 |  | 0.7 | 1.0 | 0.0 |  | 0.7 | 1.0 | 0.0 | \*\*\* | 0.6 | 1.0 | 0.0 |  | 0.4 | 0.4 | 0.3 |  |
| 性别 |  | 0.5 | 1.0 | 0.0 |  | 0.5 | 1.0 | 0.0 |  | 0.6 | 1.0 | 0.0 |  | 0.5 | 1.0 | 0.0 |  |
| 年龄 |  | 54.7 | 76.0 | 31.0 |  | 54.8 | 76.0 | 31.0 | \*\*\* | 53.1 | 76.0 | 31.0 |  | 57.3 | 60.0 | 54.7 |  |
| 文化程度 |  | 7.1 | 17.0 | 0.0 |  | 7.1 | 17.0 | 0.0 |  | 7.2 | 15.0 | 0.0 | \*\* | 8.0 | 9.0 | 7.1 | \*\* |
| 农业培训 |  | 0.1 | 1.0 | 0.0 |  | 0.1 | 1.0 | 0.0 |  | 0.0 | 1.0 | 0.0 |  | 0.5 | 1.0 | 0.0 |  |
| 健康状态 |  | 4.3 | 5.0 | 1.0 |  | 4.3 | 5.0 | 1.0 | \*\* | 4.3 | 5.0 | 3.0 |  | 4.5 | 5.0 | 4.0 |  |
| 家庭背景 |  | 0.2 | 1.0 | 0.0 |  | 0.2 | 1.0 | 0.0 |  | 0.2 | 1.0 | 0.0 | \*\* | 1.0 | 1.0 | 1.0 | \*\* |
| 样本数量 |  | N=9713 | | |  | N=9022 | | |  | N=689 | | |  | N=2 | | |  |

**表4- 两熟制玉米农户生产基本情况**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N=9713 | | | | | | |
| **变量** | **Mean** | **Max** | **Min** | **Skewness** | **Kurtosis** | **Sd** |
| 单产（千克/亩） | 459.1 | 650.0 | 200.0 | -0.5 | 2.6 | 104.7 |
| 收获面积（亩） | 3.8 | 52.0 | 0.1 | 2.7 | 16.9 | 3.8 |
| 投工量（日/亩） | 13.9 | 75.0 | 1.4 | 2.5 | 10.5 | 12.9 |
| 家庭投工量（日/亩） | 13.8 | 75.0 | 0.0 | 2.5 | 10.5 | 12.9 |
| 雇佣投工量（日/亩） | 0.1 | 12.7 | 0.0 | 18.4 | 390.3 | 0.5 |
| 肥料投入（元/亩） | 140.1 | 350.0 | 10.0 | 0.8 | 4.6 | 57.7 |
| 机械投入（元/亩） | 60.0 | 250.0 | 0.0 | 1.1 | 3.9 | 58.3 |
| 其他投入（元/亩） | 94.9 | 167.5 | 46.7 | 0.6 | 2.2 | 38.4 |
| 政策补贴（元/亩） | 100.8 | 431.0 | 0.0 | 1.9 | 10.9 | 65.1 |
| 农业保险 | 0.2 | 1 | 0 | 1.8 | 4.2 | 0.4 |
| 土地细碎化水平（亩/块） | 1.6 | 50.0 | 0.0 | 6.5 | 170.9 | 1.4 |
| 人口结构 | 0.7 | 2.8 | 0.0 | 1.7 | 9.2 | 0.4 |
| 兼业化水平 | 0.7 | 1.0 | 0.0 | -0.9 | 2.7 | 0.3 |
| 性别 | 0.5 | 1 | 0 | -0.2 | 1.0 | 0.5 |
| 年龄 | 54.7 | 76.0 | 31.0 | -0.2 | 3.9 | 8.2 |
| 文化程度 | 7.1 | 17.0 | 0.0 | -0.5 | 5.7 | 2.0 |
| 农业培训 | 0.1 | 1 | 0 | 3.9 | 16.5 | 0.2 |
| 健康状态 | 4.3 | 5 | 1 | -0.7 | 5.1 | 0.6 |
| 家庭背景 | 0.2 | 1 | 0 | 1.4 | 3.1 | 0.4 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **表4- 投入变量与规模的回归结果** | | | | | | | | |
| **变量** | **lnland** | | | | **lnland^2** | | | |
| **Coef.** | **Ro Std.** | **t** | **P>t** | **Coef.** | **Ro Std.** | **t** | **P>t** |
| lnlabor | -0.32 | 0.02 | -13.79 | 0.00 | -0.02 | 0.01 | -1.96 | 0.05 |
| lnflabor | -0.33 | 0.03 | -13.07 | 0.00 | -0.03 | 0.01 | -2.72 | 0.01 |
| lnelabor | 0.14 | 0.05 | 3.09 | 0.00 | 0.05 | 0.02 | 2.07 | 0.04 |
| lnfertile | -0.07 | 0.02 | -3.14 | 0.00 | -0.01 | 0.01 | -1.67 | 0.10 |
| lnmachane | 0.64 | 0.14 | 4.49 | 0.00 | -0.11 | 0.06 | -2.06 | 0.04 |
| lnot | -0.10 | 0.02 | -5.40 | 0.00 | 0.01 | 0.01 | 1.31 | 0.19 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=9265，Cluster in id=2792 | | | | | | | | |
| 变量 | （1）固定效应 | | （2）随机效应 | | | （1）混合回归 | | |
| Coef. | | Coef. | | | Coef. | | |
| lnland | 0.029\*\* | (0.014) | | 0.065\*\*\* | (0.007) | | 0.047\*\*\* | (0.007) | |
| land | 0.001 | (0.002) | | -0.008\*\*\* | (0.001) | | -0.006\*\*\* | (0.001) | |
| lnlabor | -0.082 | (0.071) | | -0.02 | (0.054) | | -0.017 | (0.055) | |
| lnfertile | -0.12 | (0.095) | | -0.089 | (0.075) | | 0.064 | (0.078) | |
| lnmachane | 0.021\*\* | (0.01) | | 0.015\* | (0.009) | | 0.011 | (0.01) | |
| lnot | 0.109 | (0.183) | | 0.519\*\*\* | (0.155) | | 0.81\*\*\* | (0.17) | |
| lnlabor2 | 0.007 | (0.005) | | 0.006 | (0.004) | | 0.018\*\*\* | (0.004) | |
| lnfertile2 | 0.013\*\* | (0.007) | | 0.003 | (0.006) | | -0.008 | (0.006) | |
| lnmachane2 | 0.002\*\*\* | (0) | | 0.004\*\*\* | (0) | | 0.003\*\*\* | (0) | |
| lnot2 | -0.023 | (0.02) | | -0.063\*\*\* | (0.017) | | -0.084\*\*\* | (0.019) | |
| lnlaborlnfertile | -0.007 | (0.011) | | -0.005 | (0.009) | | -0.017\* | (0.009) | |
| lnlaborlnmachane | 0.002\* | (0.001) | | -0.001 | (0.001) | | -0.002\*\* | (0.001) | |
| lnlaborlnot | 0.017 | (0.012) | | 0.004 | (0.01) | | 0.005 | (0.011) | |
| lnfertilelnmachane | 0.001 | (0.001) | | 0 | (0.001) | | -0.003\*\* | (0.001) | |
| lnfertilelnot | 0.019 | (0.016) | | 0.026\*\* | (0.013) | | 0.014 | (0.014) | |
| lnmachanelnot | -0.004\*\* | (0.002) | | 0.001 | (0.002) | | 0.006\*\*\* | (0.002) | |
| train | -0.03\*\* | (0.012) | | -0.026\*\* | (0.01) | | -0.013 | (0.012) | |
| health | 0.014\*\*\* | (0.005) | | 0.019\*\*\* | (0.004) | | 0.017\*\*\* | (0.005) | |
| status | 0.014\*\* | (0.007) | | 0.026\*\*\* | (0.006) | | 0.021\*\*\* | (0.007) | |
| fstruct | -0.009 | (0.006) | | -0.006 | (0.005) | | -0.001 | (0.006) | |
| plots | -0.009\*\*\* | (0.002) | | 0.007\* | (0.004) | | 0.008\*\* | (0.003) | |
| insurances | -0.007 | (0.009) | | -0.031\*\*\* | (0.007) | | -0.064\*\*\* | (0.007) | |
| loan | -0.035\*\*\* | (0.011) | | -0.034\*\*\* | (0.009) | | -0.002 | (0.011) | |
| job | -0.041\*\*\* | (0.016) | | -0.028\*\*\* | (0.011) | | 0.004 | (0.011) | |
| lnsubsidy | -0.001 | (0.001) | | 0.001 | (0.001) | | 0.005\*\*\* | (0.001) | |
| \_cons | 5.881\*\*\* | (0.493) | | 4.593\*\*\* | (0.398) | | 3.452\*\*\* | (0.424) | |
| 省份虚拟变量 | - | | - | | | 是 | | |
| 个体效应 | 是 | | 是 | | | - | | |
| 时间效应 | 是 | | 是 | | | 是 | | |
| P |  | |  | | | 0 | | |
| R-squared | 0.124 | | 0.198 | | | 0.252 | | |