**Appendix**

**Table A1.** Matrix of priors

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
| Arfa et al. (2015)’s priors | 1 to 9 | 0.82 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 |
| 10 to 19 | 0.07 | 0.75 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 |
| 20 to 49 | 0.00 | 0.07 | 0.75 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 |
| 50 to 99 | 0.00 | 0.00 | 0.07 | 0.75 | 0.07 | 0.00 | 0.00 | 0.00 | 0.11 |
| 100 to 199 | 0.00 | 0.00 | 0.00 | 0.07 | 0.75 | 0.07 | 0.00 | 0.00 | 0.11 |
| 200 to 499 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.75 | 0.07 | 0.00 | 0.11 |
| 500 to 999 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.75 | 0.07 | 0.11 |
| 1,000 or more | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.82 | 0.11 |
| Entry | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
| Uniform priors | 1 to 9 | 0.33 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 |
| 10 to 19 | 0.25 | 0.25 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 |
| 20 to 49 | 0.00 | 0.25 | 0.25 | 0.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 |
| 50 to 99 | 0.00 | 0.00 | 0.25 | 0.25 | 0.25 | 0.00 | 0.00 | 0.00 | 0.25 |
| 100 to 199 | 0.00 | 0.00 | 0.00 | 0.25 | 0.25 | 0.25 | 0.00 | 0.00 | 0.25 |
| 200 to 499 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.25 | 0.25 | 0.00 | 0.25 |
| 500 to 999 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.25 | 0.25 | 0.25 |
| 1,000 or more | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.33 | 0.33 |
| Entry | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |

**Table A2.** Model performance ()

|  |  |  |
| --- | --- | --- |
| Region | Arfa’s prior (1987-2017) | Uniform prior (1987-2017) |
| US | 0.9080 | 0.9071 |
| AL | 0.9944 | 0.9575 |
| AZ | 0.8901 | 0.9021 |
| AR | 0.9166 | 0.8979 |
| CA | 0.9291 | 0.9253 |
| CO | 0.8495 | 0.8662 |
| CT | 0.9349 | 0.9289 |
| FL | 0.9480 | 0.9381 |
| GA | 0.8764 | 0.8878 |
| ID | 0.9160 | 0.9017 |
| IL | 0.9169 | 0.9082 |
| IN | 0.9412 | 0.9330 |
| IA | 0.8855 | 0.8929 |
| KS | 0.9307 | 0.9051 |
| KY | 0.8894 | 0.8870 |
| LA | 0.9420 | 0.9307 |
| ME | 0.8836 | 0.8838 |
| MD | 0.8642 | 0.8680 |
| MI | 0.9155 | 0.9176 |
| MN | 0.9015 | 0.8991 |
| MS | 0.9349 | 0.9239 |
| MO | 0.9158 | 0.9042 |
| NE | 0.8836 | 0.8862 |
| NV | 0.9222 | 0.9172 |
| NH | 0.9119 | 0.9049 |
| NM | 0.8675 | 0.8638 |
| NY | 0.8984 | 0.9007 |
| NC | 0.8835 | 0.8861 |
| ND | 0.8819 | 0.8850 |
| OH | 0.9035 | 0.9053 |
| OK | 0.8567 | 0.8663 |
| OR | 0.8661 | 0.8847 |
| PA | 0.8764 | 0.8744 |
| SC | 0.9440 | 0.9225 |
| SD | 0.9280 | 0.9203 |
| TN | 0.8436 | 0.8492 |
| TX | 0.9384 | 0.9211 |
| UT | 0.8682 | 0.8824 |
| VT | 0.8316 | 0.8503 |
| VA | 0.8446 | 0.8599 |
| WA | 0.8404 | 0.8565 |
| WI | 0.8279 | 0.8428 |
| WY | 0.8539 | 0.8659 |

**Table A3.** Estimated dairy industry transition probabilities for 42 states, 1987 to 2017

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.679 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.296 |
|  | 10 to 19 | 0.076 | 0.715 | 0.065 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.144 |
|  | 20 to 49 | 0.000 | 0.068 | 0.717 | 0.072 | 0.000 | 0.000 | 0.000 | 0.000 | 0.143 |
| AL | 50 to 99 | 0.000 | 0.000 | 0.061 | 0.726 | 0.068 | 0.000 | 0.000 | 0.000 | 0.145 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.066 | 0.724 | 0.069 | 0.000 | 0.000 | 0.141 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.068 | 0.740 | 0.066 | 0.000 | 0.126 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.747 | 0.069 | 0.114 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.765 | 0.170 |
|  | Entry | 0.070 | 0.015 | 0.010 | 0.015 | 0.012 | 0.010 | 0.002 | 0.000 | 0.865 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.534 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.456 |
|  | 10 to 19 | 0.259 | 0.239 | 0.246 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.256 |
|  | 20 to 49 | 0.000 | 0.243 | 0.250 | 0.243 | 0.000 | 0.000 | 0.000 | 0.000 | 0.264 |
| AZ | 50 to 99 | 0.000 | 0.000 | 0.251 | 0.244 | 0.245 | 0.000 | 0.000 | 0.000 | 0.259 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.241 | 0.239 | 0.257 | 0.000 | 0.000 | 0.263 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.202 | 0.261 | 0.259 | 0.000 | 0.278 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.232 | 0.229 | 0.279 | 0.259 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.217 | 0.340 | 0.443 |
|  | Entry | 0.233 | 0.008 | 0.024 | 0.006 | 0.010 | 0.034 | 0.027 | 0.166 | 0.492 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.682 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.286 |
|  | 10 to 19 | 0.073 | 0.715 | 0.071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.140 |
|  | 20 to 49 | 0.000 | 0.054 | 0.703 | 0.072 | 0.000 | 0.000 | 0.000 | 0.000 | 0.171 |
| AR | 50 to 99 | 0.000 | 0.000 | 0.057 | 0.699 | 0.068 | 0.000 | 0.000 | 0.000 | 0.176 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.067 | 0.733 | 0.064 | 0.000 | 0.000 | 0.136 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.752 | 0.058 | 0.000 | 0.119 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.749 | 0.069 | 0.112 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.169 |
|  | Entry | 0.020 | 0.006 | 0.012 | 0.015 | 0.010 | 0.005 | 0.000 | 0.000 | 0.932 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.529 | 0.101 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.370 |
|  | 10 to 19 | 0.267 | 0.229 | 0.241 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.262 |
|  | 20 to 49 | 0.000 | 0.232 | 0.249 | 0.251 | 0.000 | 0.000 | 0.000 | 0.000 | 0.268 |
| CA | 50 to 99 | 0.000 | 0.000 | 0.241 | 0.245 | 0.251 | 0.000 | 0.000 | 0.000 | 0.263 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.222 | 0.231 | 0.303 | 0.000 | 0.000 | 0.244 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.166 | 0.319 | 0.284 | 0.000 | 0.231 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.252 | 0.231 | 0.283 | 0.234 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.252 | 0.328 | 0.420 |
|  | Entry | 0.143 | 0.021 | 0.035 | 0.040 | 0.051 | 0.099 | 0.097 | 0.176 | 0.338 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.502 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.468 |
|  | 10 to 19 | 0.261 | 0.230 | 0.244 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.265 |
|  | 20 to 49 | 0.000 | 0.223 | 0.251 | 0.251 | 0.000 | 0.000 | 0.000 | 0.000 | 0.276 |
| CO | 50 to 99 | 0.000 | 0.000 | 0.244 | 0.245 | 0.245 | 0.000 | 0.000 | 0.000 | 0.266 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.237 | 0.237 | 0.265 | 0.000 | 0.000 | 0.261 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.234 | 0.259 | 0.235 | 0.000 | 0.272 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.249 | 0.241 | 0.246 | 0.264 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.319 | 0.326 | 0.355 |
|  | Entry | 0.176 | 0.010 | 0.017 | 0.015 | 0.015 | 0.027 | 0.014 | 0.031 | 0.696 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.466 | 0.100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.434 |
|  | 10 to 19 | 0.275 | 0.212 | 0.248 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.265 |
|  | 20 to 49 | 0.000 | 0.159 | 0.268 | 0.267 | 0.000 | 0.000 | 0.000 | 0.000 | 0.305 |
| CT | 50 to 99 | 0.000 | 0.000 | 0.249 | 0.246 | 0.247 | 0.000 | 0.000 | 0.000 | 0.258 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.249 | 0.249 | 0.221 | 0.000 | 0.000 | 0.282 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.259 | 0.247 | 0.204 | 0.000 | 0.290 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.253 | 0.245 | 0.241 | 0.261 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.332 | 0.332 | 0.336 |
|  | Entry | 0.145 | 0.018 | 0.067 | 0.059 | 0.057 | 0.047 | 0.006 | 0.005 | 0.595 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.691 | 0.052 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.257 |
|  | 10 to 19 | 0.280 | 0.233 | 0.231 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.256 |
|  | 20 to 49 | 0.000 | 0.246 | 0.245 | 0.253 | 0.000 | 0.000 | 0.000 | 0.000 | 0.256 |
| FL | 50 to 99 | 0.000 | 0.000 | 0.241 | 0.253 | 0.244 | 0.000 | 0.000 | 0.000 | 0.263 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.251 | 0.239 | 0.265 | 0.000 | 0.000 | 0.246 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.223 | 0.267 | 0.254 | 0.000 | 0.256 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.258 | 0.246 | 0.253 | 0.244 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.313 | 0.321 | 0.367 |
|  | Entry | 0.221 | 0.027 | 0.020 | 0.036 | 0.030 | 0.059 | 0.050 | 0.067 | 0.491 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.547 | 0.093 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.359 |
|  | 10 to 19 | 0.290 | 0.222 | 0.224 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.264 |
|  | 20 to 49 | 0.000 | 0.234 | 0.235 | 0.260 | 0.000 | 0.000 | 0.000 | 0.000 | 0.270 |
| GA | 50 to 99 | 0.000 | 0.000 | 0.200 | 0.251 | 0.295 | 0.000 | 0.000 | 0.000 | 0.254 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.213 | 0.283 | 0.238 | 0.000 | 0.000 | 0.266 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.279 | 0.256 | 0.189 | 0.000 | 0.277 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.251 | 0.241 | 0.246 | 0.262 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.326 | 0.328 | 0.346 |
|  | Entry | 0.153 | 0.022 | 0.030 | 0.033 | 0.080 | 0.040 | 0.015 | 0.019 | 0.608 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.467 | 0.050 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.483 |
|  | 10 to 19 | 0.273 | 0.202 | 0.261 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.265 |
|  | 20 to 49 | 0.000 | 0.117 | 0.290 | 0.277 | 0.000 | 0.000 | 0.000 | 0.000 | 0.316 |
| ID | 50 to 99 | 0.000 | 0.000 | 0.239 | 0.231 | 0.244 | 0.000 | 0.000 | 0.000 | 0.286 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.232 | 0.238 | 0.251 | 0.000 | 0.000 | 0.279 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.237 | 0.244 | 0.231 | 0.000 | 0.288 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.243 | 0.236 | 0.246 | 0.275 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.302 | 0.321 | 0.377 |
|  | Entry | 0.102 | 0.006 | 0.027 | 0.042 | 0.031 | 0.039 | 0.020 | 0.052 | 0.681 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.760 | 0.041 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.199 |
|  | 10 to 19 | 0.075 | 0.705 | 0.076 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.144 |
|  | 20 to 49 | 0.000 | 0.028 | 0.664 | 0.076 | 0.000 | 0.000 | 0.000 | 0.000 | 0.232 |
| IL | 50 to 99 | 0.000 | 0.000 | 0.050 | 0.673 | 0.056 | 0.000 | 0.000 | 0.000 | 0.220 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.069 | 0.720 | 0.064 | 0.000 | 0.000 | 0.148 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.742 | 0.066 | 0.000 | 0.122 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.748 | 0.069 | 0.113 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.169 |
|  | Entry | 0.041 | 0.011 | 0.036 | 0.044 | 0.032 | 0.017 | 0.004 | 0.002 | 0.814 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.415 | 0.163 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.422 |
|  | 10 to 19 | 0.282 | 0.199 | 0.264 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.254 |
|  | 20 to 49 | 0.000 | 0.148 | 0.282 | 0.244 | 0.000 | 0.000 | 0.000 | 0.000 | 0.325 |
| IN | 50 to 99 | 0.000 | 0.000 | 0.272 | 0.248 | 0.202 | 0.000 | 0.000 | 0.000 | 0.277 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.257 | 0.242 | 0.217 | 0.000 | 0.000 | 0.284 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.251 | 0.245 | 0.237 | 0.000 | 0.266 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.247 | 0.249 | 0.254 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.329 | 0.331 | 0.339 |
|  | Entry | 0.163 | 0.025 | 0.123 | 0.066 | 0.048 | 0.019 | 0.004 | 0.010 | 0.542 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.775 | 0.057 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.168 |
|  | 10 to 19 | 0.071 | 0.695 | 0.077 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.157 |
|  | 20 to 49 | 0.000 | 0.030 | 0.651 | 0.075 | 0.000 | 0.000 | 0.000 | 0.000 | 0.244 |
| IA | 50 to 99 | 0.000 | 0.000 | 0.056 | 0.690 | 0.057 | 0.000 | 0.000 | 0.000 | 0.197 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.069 | 0.727 | 0.065 | 0.000 | 0.000 | 0.138 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.744 | 0.067 | 0.000 | 0.120 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.748 | 0.069 | 0.113 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.764 | 0.171 |
|  | Entry | 0.036 | 0.016 | 0.038 | 0.040 | 0.029 | 0.016 | 0.004 | 0.005 | 0.816 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.682 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.292 |
|  | 10 to 19 | 0.075 | 0.701 | 0.073 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.150 |
|  | 20 to 49 | 0.000 | 0.044 | 0.683 | 0.070 | 0.000 | 0.000 | 0.000 | 0.000 | 0.203 |
| KS | 50 to 99 | 0.000 | 0.000 | 0.060 | 0.699 | 0.062 | 0.000 | 0.000 | 0.000 | 0.180 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.069 | 0.728 | 0.066 | 0.000 | 0.000 | 0.137 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.746 | 0.065 | 0.000 | 0.119 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.749 | 0.070 | 0.112 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.063 | 0.762 | 0.174 |
|  | Entry | 0.066 | 0.014 | 0.031 | 0.032 | 0.018 | 0.009 | 0.001 | 0.009 | 0.820 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.728 | 0.030 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.242 |
|  | 10 to 19 | 0.079 | 0.685 | 0.076 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.160 |
|  | 20 to 49 | 0.000 | 0.036 | 0.667 | 0.067 | 0.000 | 0.000 | 0.000 | 0.000 | 0.230 |
| KY | 50 to 99 | 0.000 | 0.000 | 0.062 | 0.696 | 0.063 | 0.000 | 0.000 | 0.000 | 0.179 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.069 | 0.733 | 0.063 | 0.000 | 0.000 | 0.135 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.746 | 0.068 | 0.000 | 0.117 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.749 | 0.069 | 0.112 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.169 |
|  | Entry | 0.076 | 0.016 | 0.037 | 0.034 | 0.021 | 0.006 | 0.001 | 0.001 | 0.809 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.730 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 |
|  | 10 to 19 | 0.074 | 0.719 | 0.074 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.133 |
|  | 20 to 49 | 0.000 | 0.055 | 0.732 | 0.074 | 0.000 | 0.000 | 0.000 | 0.000 | 0.140 |
| LA | 50 to 99 | 0.000 | 0.000 | 0.053 | 0.716 | 0.065 | 0.000 | 0.000 | 0.000 | 0.166 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.068 | 0.716 | 0.059 | 0.000 | 0.000 | 0.158 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.071 | 0.741 | 0.061 | 0.000 | 0.127 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.746 | 0.070 | 0.114 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.169 |
|  | Entry | 0.024 | 0.006 | 0.012 | 0.022 | 0.022 | 0.010 | 0.002 | 0.000 | 0.902 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.398 | 0.098 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.503 |
|  | 10 to 19 | 0.267 | 0.201 | 0.258 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.274 |
|  | 20 to 49 | 0.000 | 0.096 | 0.301 | 0.293 | 0.000 | 0.000 | 0.000 | 0.000 | 0.310 |
| ME | 50 to 99 | 0.000 | 0.000 | 0.259 | 0.255 | 0.186 | 0.000 | 0.000 | 0.000 | 0.301 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.259 | 0.232 | 0.226 | 0.000 | 0.000 | 0.283 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.248 | 0.245 | 0.228 | 0.000 | 0.279 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.251 | 0.248 | 0.244 | 0.257 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.333 | 0.332 | 0.335 |
|  | Entry | 0.194 | 0.027 | 0.082 | 0.085 | 0.044 | 0.034 | 0.010 | 0.002 | 0.524 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.783 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.179 |
|  | 10 to 19 | 0.075 | 0.720 | 0.074 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.131 |
|  | 20 to 49 | 0.000 | 0.035 | 0.698 | 0.078 | 0.000 | 0.000 | 0.000 | 0.000 | 0.190 |
| MD | 50 to 99 | 0.000 | 0.000 | 0.047 | 0.687 | 0.059 | 0.000 | 0.000 | 0.000 | 0.206 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.067 | 0.706 | 0.052 | 0.000 | 0.000 | 0.175 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.072 | 0.736 | 0.061 | 0.000 | 0.131 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.747 | 0.069 | 0.114 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.764 | 0.171 |
|  | Entry | 0.061 | 0.012 | 0.047 | 0.058 | 0.058 | 0.024 | 0.005 | 0.004 | 0.731 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.358 | 0.226 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.416 |
|  | 10 to 19 | 0.265 | 0.203 | 0.263 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.270 |
|  | 20 to 49 | 0.000 | 0.129 | 0.304 | 0.269 | 0.000 | 0.000 | 0.000 | 0.000 | 0.298 |
| MI | 50 to 99 | 0.000 | 0.000 | 0.261 | 0.235 | 0.236 | 0.000 | 0.000 | 0.000 | 0.268 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.245 | 0.246 | 0.209 | 0.000 | 0.000 | 0.301 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.252 | 0.242 | 0.219 | 0.000 | 0.288 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.244 | 0.246 | 0.261 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.328 | 0.329 | 0.343 |
|  | Entry | 0.102 | 0.022 | 0.067 | 0.059 | 0.061 | 0.044 | 0.012 | 0.017 | 0.617 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.801 | 0.063 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.137 |
|  | 10 to 19 | 0.072 | 0.699 | 0.080 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.149 |
|  | 20 to 49 | 0.000 | 0.016 | 0.653 | 0.075 | 0.000 | 0.000 | 0.000 | 0.000 | 0.256 |
| MN | 50 to 99 | 0.000 | 0.000 | 0.057 | 0.687 | 0.057 | 0.000 | 0.000 | 0.000 | 0.199 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.070 | 0.726 | 0.064 | 0.000 | 0.000 | 0.140 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.743 | 0.067 | 0.000 | 0.120 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.748 | 0.069 | 0.113 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.765 | 0.170 |
|  | Entry | 0.024 | 0.016 | 0.045 | 0.048 | 0.029 | 0.015 | 0.004 | 0.003 | 0.815 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.711 | 0.028 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.261 |
|  | 10 to 19 | 0.073 | 0.718 | 0.070 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.138 |
|  | 20 to 49 | 0.000 | 0.059 | 0.719 | 0.069 | 0.000 | 0.000 | 0.000 | 0.000 | 0.152 |
| MS | 50 to 99 | 0.000 | 0.000 | 0.060 | 0.696 | 0.069 | 0.000 | 0.000 | 0.000 | 0.174 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.063 | 0.715 | 0.067 | 0.000 | 0.000 | 0.155 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.746 | 0.059 | 0.000 | 0.125 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.747 | 0.070 | 0.113 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.170 |
|  | Entry | 0.024 | 0.009 | 0.015 | 0.020 | 0.018 | 0.008 | 0.001 | 0.001 | 0.906 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.715 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.252 |
|  | 10 to 19 | 0.075 | 0.705 | 0.071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.149 |
|  | 20 to 49 | 0.000 | 0.050 | 0.690 | 0.070 | 0.000 | 0.000 | 0.000 | 0.000 | 0.189 |
| MO | 50 to 99 | 0.000 | 0.000 | 0.060 | 0.703 | 0.059 | 0.000 | 0.000 | 0.000 | 0.178 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.070 | 0.731 | 0.062 | 0.000 | 0.000 | 0.137 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.746 | 0.067 | 0.000 | 0.116 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.749 | 0.069 | 0.112 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.169 |
|  | Entry | 0.102 | 0.023 | 0.040 | 0.044 | 0.028 | 0.008 | 0.001 | 0.001 | 0.754 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.398 | 0.105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.497 |
|  | 10 to 19 | 0.270 | 0.188 | 0.263 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.279 |
|  | 20 to 49 | 0.000 | 0.112 | 0.283 | 0.267 | 0.000 | 0.000 | 0.000 | 0.000 | 0.339 |
| NE | 50 to 99 | 0.000 | 0.000 | 0.244 | 0.235 | 0.221 | 0.000 | 0.000 | 0.000 | 0.300 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.253 | 0.246 | 0.215 | 0.000 | 0.000 | 0.286 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.245 | 0.243 | 0.000 | 0.261 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.249 | 0.249 | 0.253 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.331 | 0.332 | 0.337 |
|  | Entry | 0.063 | 0.007 | 0.027 | 0.028 | 0.018 | 0.008 | 0.002 | 0.005 | 0.842 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.713 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.281 |
|  | 10 to 19 | 0.073 | 0.738 | 0.069 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.120 |
|  | 20 to 49 | 0.000 | 0.068 | 0.746 | 0.067 | 0.000 | 0.000 | 0.000 | 0.000 | 0.119 |
| NV | 50 to 99 | 0.000 | 0.000 | 0.070 | 0.741 | 0.068 | 0.000 | 0.000 | 0.000 | 0.121 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.067 | 0.702 | 0.085 | 0.000 | 0.000 | 0.146 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.052 | 0.744 | 0.067 | 0.000 | 0.137 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.736 | 0.071 | 0.123 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.062 | 0.749 | 0.189 |
|  | Entry | 0.074 | 0.007 | 0.006 | 0.004 | 0.013 | 0.025 | 0.014 | 0.028 | 0.829 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.463 | 0.058 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.479 |
|  | 10 to 19 | 0.268 | 0.216 | 0.253 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.263 |
|  | 20 to 49 | 0.000 | 0.119 | 0.279 | 0.318 | 0.000 | 0.000 | 0.000 | 0.000 | 0.283 |
| NH | 50 to 99 | 0.000 | 0.000 | 0.240 | 0.292 | 0.203 | 0.000 | 0.000 | 0.000 | 0.265 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.271 | 0.234 | 0.218 | 0.000 | 0.000 | 0.278 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.262 | 0.257 | 0.188 | 0.000 | 0.292 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.252 | 0.244 | 0.248 | 0.255 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.330 | 0.332 | 0.337 |
|  | Entry | 0.215 | 0.022 | 0.067 | 0.100 | 0.050 | 0.048 | 0.001 | 0.005 | 0.492 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.574 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.395 |
|  | 10 to 19 | 0.262 | 0.237 | 0.239 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.261 |
|  | 20 to 49 | 0.000 | 0.244 | 0.244 | 0.246 | 0.000 | 0.000 | 0.000 | 0.000 | 0.266 |
| NM | 50 to 99 | 0.000 | 0.000 | 0.247 | 0.251 | 0.245 | 0.000 | 0.000 | 0.000 | 0.257 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.248 | 0.240 | 0.258 | 0.000 | 0.000 | 0.254 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.231 | 0.259 | 0.249 | 0.000 | 0.261 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.246 | 0.235 | 0.266 | 0.254 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.181 | 0.358 | 0.461 |
|  | Entry | 0.233 | 0.011 | 0.016 | 0.010 | 0.012 | 0.021 | 0.010 | 0.168 | 0.519 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.379 | 0.224 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.396 |
|  | 10 to 19 | 0.260 | 0.215 | 0.255 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.271 |
|  | 20 to 49 | 0.000 | 0.079 | 0.287 | 0.322 | 0.000 | 0.000 | 0.000 | 0.000 | 0.312 |
| NY | 50 to 99 | 0.000 | 0.000 | 0.247 | 0.283 | 0.176 | 0.000 | 0.000 | 0.000 | 0.294 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.271 | 0.230 | 0.210 | 0.000 | 0.000 | 0.289 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.242 | 0.230 | 0.000 | 0.278 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.248 | 0.245 | 0.245 | 0.262 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.330 | 0.330 | 0.341 |
|  | Entry | 0.082 | 0.024 | 0.086 | 0.098 | 0.049 | 0.029 | 0.014 | 0.013 | 0.604 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.710 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.267 |
|  | 10 to 19 | 0.073 | 0.731 | 0.067 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.128 |
|  | 20 to 49 | 0.000 | 0.067 | 0.702 | 0.073 | 0.000 | 0.000 | 0.000 | 0.000 | 0.158 |
| NC | 50 to 99 | 0.000 | 0.000 | 0.056 | 0.703 | 0.070 | 0.000 | 0.000 | 0.000 | 0.171 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.061 | 0.712 | 0.067 | 0.000 | 0.000 | 0.160 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.069 | 0.738 | 0.063 | 0.000 | 0.130 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.746 | 0.069 | 0.115 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.764 | 0.171 |
|  | Entry | 0.075 | 0.013 | 0.019 | 0.025 | 0.030 | 0.019 | 0.004 | 0.005 | 0.809 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.700 | 0.045 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.255 |
|  | 10 to 19 | 0.071 | 0.691 | 0.078 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.160 |
|  | 20 to 49 | 0.000 | 0.026 | 0.646 | 0.060 | 0.000 | 0.000 | 0.000 | 0.000 | 0.268 |
| ND | 50 to 99 | 0.000 | 0.000 | 0.062 | 0.675 | 0.052 | 0.000 | 0.000 | 0.000 | 0.211 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.070 | 0.731 | 0.067 | 0.000 | 0.000 | 0.132 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.069 | 0.747 | 0.069 | 0.000 | 0.114 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.069 | 0.749 | 0.069 | 0.113 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.169 |
|  | Entry | 0.021 | 0.005 | 0.020 | 0.016 | 0.008 | 0.004 | 0.002 | 0.001 | 0.924 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.347 | 0.249 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.404 |
|  | 10 to 19 | 0.262 | 0.205 | 0.263 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.270 |
|  | 20 to 49 | 0.000 | 0.164 | 0.267 | 0.251 | 0.000 | 0.000 | 0.000 | 0.000 | 0.317 |
| OH | 50 to 99 | 0.000 | 0.000 | 0.259 | 0.246 | 0.192 | 0.000 | 0.000 | 0.000 | 0.303 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.259 | 0.238 | 0.211 | 0.000 | 0.000 | 0.292 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.252 | 0.245 | 0.234 | 0.000 | 0.269 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.248 | 0.248 | 0.255 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.332 | 0.332 | 0.336 |
|  | Entry | 0.118 | 0.035 | 0.106 | 0.083 | 0.049 | 0.022 | 0.005 | 0.006 | 0.577 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.757 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.223 |
|  | 10 to 19 | 0.077 | 0.718 | 0.071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.135 |
|  | 20 to 49 | 0.000 | 0.060 | 0.728 | 0.073 | 0.000 | 0.000 | 0.000 | 0.000 | 0.139 |
| OK | 50 to 99 | 0.000 | 0.000 | 0.063 | 0.729 | 0.064 | 0.000 | 0.000 | 0.000 | 0.144 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.070 | 0.735 | 0.063 | 0.000 | 0.000 | 0.132 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.746 | 0.065 | 0.000 | 0.119 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.748 | 0.070 | 0.113 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.764 | 0.172 |
|  | Entry | 0.062 | 0.022 | 0.033 | 0.034 | 0.027 | 0.012 | 0.002 | 0.005 | 0.802 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.595 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.381 |
|  | 10 to 19 | 0.265 | 0.232 | 0.244 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.259 |
|  | 20 to 49 | 0.000 | 0.216 | 0.243 | 0.266 | 0.000 | 0.000 | 0.000 | 0.000 | 0.274 |
| OR | 50 to 99 | 0.000 | 0.000 | 0.214 | 0.252 | 0.272 | 0.000 | 0.000 | 0.000 | 0.261 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.234 | 0.255 | 0.249 | 0.000 | 0.000 | 0.262 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.253 | 0.252 | 0.209 | 0.000 | 0.286 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.251 | 0.241 | 0.245 | 0.263 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.324 | 0.328 | 0.348 |
|  | Entry | 0.155 | 0.010 | 0.026 | 0.032 | 0.045 | 0.055 | 0.012 | 0.022 | 0.641 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.389 | 0.223 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.388 |
|  | 10 to 19 | 0.265 | 0.207 | 0.273 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.255 |
|  | 20 to 49 | 0.000 | 0.054 | 0.379 | 0.303 | 0.000 | 0.000 | 0.000 | 0.000 | 0.264 |
| PA | 50 to 99 | 0.000 | 0.000 | 0.289 | 0.260 | 0.164 | 0.000 | 0.000 | 0.000 | 0.287 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.273 | 0.239 | 0.197 | 0.000 | 0.000 | 0.292 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.256 | 0.244 | 0.228 | 0.000 | 0.272 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.250 | 0.248 | 0.246 | 0.255 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.333 | 0.332 | 0.335 |
|  | Entry | 0.120 | 0.028 | 0.129 | 0.157 | 0.079 | 0.030 | 0.007 | 0.004 | 0.447 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.759 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.217 |
|  | 10 to 19 | 0.074 | 0.730 | 0.068 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.128 |
|  | 20 to 49 | 0.000 | 0.068 | 0.734 | 0.069 | 0.000 | 0.000 | 0.000 | 0.000 | 0.129 |
| SC | 50 to 99 | 0.000 | 0.000 | 0.066 | 0.728 | 0.068 | 0.000 | 0.000 | 0.000 | 0.139 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.066 | 0.713 | 0.068 | 0.000 | 0.000 | 0.153 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.067 | 0.730 | 0.062 | 0.000 | 0.141 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.744 | 0.067 | 0.118 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.766 | 0.169 |
|  | Entry | 0.069 | 0.013 | 0.017 | 0.020 | 0.027 | 0.032 | 0.009 | 0.003 | 0.811 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.733 | 0.036 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.231 |
|  | 10 to 19 | 0.077 | 0.679 | 0.079 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.165 |
|  | 20 to 49 | 0.000 | 0.025 | 0.652 | 0.066 | 0.000 | 0.000 | 0.000 | 0.000 | 0.257 |
| SD | 50 to 99 | 0.000 | 0.000 | 0.060 | 0.688 | 0.063 | 0.000 | 0.000 | 0.000 | 0.188 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.068 | 0.729 | 0.067 | 0.000 | 0.000 | 0.136 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.069 | 0.744 | 0.068 | 0.000 | 0.118 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.748 | 0.070 | 0.113 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.064 | 0.763 | 0.172 |
|  | Entry | 0.037 | 0.008 | 0.023 | 0.022 | 0.014 | 0.009 | 0.003 | 0.007 | 0.877 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.442 | 0.076 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.483 |
|  | 10 to 19 | 0.281 | 0.198 | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.271 |
|  | 20 to 49 | 0.001 | 0.155 | 0.254 | 0.283 | 0.000 | 0.000 | 0.000 | 0.000 | 0.307 |
| TN | 50 to 99 | 0.000 | 0.000 | 0.219 | 0.244 | 0.248 | 0.000 | 0.000 | 0.000 | 0.289 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.249 | 0.250 | 0.211 | 0.000 | 0.000 | 0.291 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.259 | 0.248 | 0.222 | 0.000 | 0.272 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.253 | 0.249 | 0.242 | 0.256 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.333 | 0.333 | 0.333 |
|  | Entry | 0.110 | 0.008 | 0.025 | 0.034 | 0.031 | 0.010 | 0.001 | 0.000 | 0.781 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.605 | 0.069 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.326 |
|  | 10 to 19 | 0.271 | 0.223 | 0.246 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.260 |
|  | 20 to 49 | 0.001 | 0.223 | 0.250 | 0.257 | 0.000 | 0.000 | 0.000 | 0.000 | 0.269 |
| TX | 50 to 99 | 0.000 | 0.000 | 0.235 | 0.245 | 0.274 | 0.000 | 0.000 | 0.000 | 0.246 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.230 | 0.264 | 0.260 | 0.000 | 0.000 | 0.246 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.262 | 0.259 | 0.218 | 0.000 | 0.262 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.251 | 0.240 | 0.248 | 0.261 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.321 | 0.327 | 0.352 |
|  | Entry | 0.040 | 0.008 | 0.015 | 0.016 | 0.025 | 0.023 | 0.009 | 0.023 | 0.841 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.487 | 0.043 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.470 |
|  | 10 to 19 | 0.266 | 0.220 | 0.249 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.265 |
|  | 20 to 49 | 0.001 | 0.157 | 0.253 | 0.302 | 0.000 | 0.000 | 0.000 | 0.000 | 0.287 |
| UT | 50 to 99 | 0.000 | 0.000 | 0.201 | 0.262 | 0.278 | 0.000 | 0.000 | 0.000 | 0.258 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.238 | 0.253 | 0.238 | 0.000 | 0.000 | 0.271 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.257 | 0.248 | 0.210 | 0.000 | 0.284 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.248 | 0.241 | 0.241 | 0.269 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.327 | 0.326 | 0.346 |
|  | Entry | 0.137 | 0.009 | 0.028 | 0.047 | 0.058 | 0.042 | 0.018 | 0.017 | 0.644 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.796 | 0.049 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.155 |
|  | 10 to 19 | 0.074 | 0.726 | 0.073 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.127 |
|  | 20 to 49 | 0.000 | 0.031 | 0.698 | 0.078 | 0.000 | 0.000 | 0.000 | 0.000 | 0.194 |
| VT | 50 to 99 | 0.000 | 0.000 | 0.049 | 0.690 | 0.056 | 0.000 | 0.000 | 0.000 | 0.204 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.070 | 0.708 | 0.065 | 0.000 | 0.000 | 0.158 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.069 | 0.732 | 0.064 | 0.000 | 0.136 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.743 | 0.068 | 0.120 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.762 | 0.173 |
|  | Entry | 0.052 | 0.015 | 0.054 | 0.064 | 0.045 | 0.036 | 0.017 | 0.010 | 0.708 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.449 | 0.090 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.461 |
|  | 10 to 19 | 0.272 | 0.209 | 0.246 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.273 |
|  | 20 to 49 | 0.002 | 0.170 | 0.242 | 0.295 | 0.000 | 0.000 | 0.000 | 0.000 | 0.292 |
| VA | 50 to 99 | 0.000 | 0.000 | 0.186 | 0.265 | 0.252 | 0.000 | 0.000 | 0.000 | 0.298 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.257 | 0.249 | 0.193 | 0.000 | 0.000 | 0.301 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.267 | 0.248 | 0.198 | 0.000 | 0.286 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.251 | 0.246 | 0.247 | 0.256 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.333 | 0.332 | 0.335 |
|  | Entry | 0.126 | 0.014 | 0.032 | 0.074 | 0.073 | 0.027 | 0.002 | 0.002 | 0.651 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.508 | 0.052 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.441 |
|  | 10 to 19 | 0.266 | 0.226 | 0.243 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.264 |
|  | 20 to 49 | 0.002 | 0.209 | 0.246 | 0.263 | 0.000 | 0.000 | 0.000 | 0.000 | 0.281 |
| WA | 50 to 99 | 0.000 | 0.000 | 0.212 | 0.243 | 0.282 | 0.000 | 0.000 | 0.000 | 0.264 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.214 | 0.259 | 0.274 | 0.000 | 0.000 | 0.253 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.249 | 0.260 | 0.212 | 0.000 | 0.279 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.249 | 0.234 | 0.240 | 0.277 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.317 | 0.321 | 0.362 |
|  | Entry | 0.128 | 0.010 | 0.022 | 0.029 | 0.044 | 0.054 | 0.027 | 0.038 | 0.648 |
| *(continued)* | | | | | | | | | | |
| **Table A3.** *(continued)* | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.807 | 0.066 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.128 |
|  | 10 to 19 | 0.070 | 0.714 | 0.076 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.139 |
|  | 20 to 49 | 0.000 | 0.024 | 0.675 | 0.075 | 0.000 | 0.000 | 0.000 | 0.000 | 0.226 |
| WI | 50 to 99 | 0.000 | 0.000 | 0.056 | 0.691 | 0.048 | 0.000 | 0.000 | 0.000 | 0.205 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.071 | 0.723 | 0.066 | 0.000 | 0.000 | 0.140 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.069 | 0.741 | 0.066 | 0.000 | 0.123 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 | 0.747 | 0.069 | 0.115 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.764 | 0.171 |
|  | Entry | 0.024 | 0.021 | 0.053 | 0.060 | 0.035 | 0.024 | 0.008 | 0.006 | 0.769 |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | 1 to 9 | 0.638 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.358 |
|  | 10 to 19 | 0.072 | 0.738 | 0.070 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.120 |
|  | 20 to 49 | 0.000 | 0.064 | 0.734 | 0.071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.131 |
| WY | 50 to 99 | 0.000 | 0.000 | 0.066 | 0.740 | 0.063 | 0.000 | 0.000 | 0.000 | 0.132 |
|  | 100 to 199 | 0.000 | 0.000 | 0.000 | 0.071 | 0.736 | 0.072 | 0.000 | 0.000 | 0.121 |
|  | 200 to 499 | 0.000 | 0.000 | 0.000 | 0.000 | 0.068 | 0.749 | 0.067 | 0.000 | 0.116 |
|  | 500 to 999 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.069 | 0.750 | 0.069 | 0.112 |
|  | 1,000 or more | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.065 | 0.765 | 0.170 |
|  | Entry | 0.139 | 0.007 | 0.012 | 0.017 | 0.006 | 0.007 | 0.001 | 0.002 | 0.809 |

**Table A4.** Lagrange multipliers for diary production margins, expenditures, and milk production

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | US | 0.045 | 0.150 | 0.098 | 0.014 | -0.024 | -0.043 | -0.051 | -0.037 | -0.075 |
|  | AL | -0.004 | -0.295 | -0.126 | 0.048 | -0.017 | 0.050 | -0.051 | -0.019 | 0.046 |
| Dairy production margins | AZ | 0.072 | -0.384 | 0.097 | 0.590 | 0.278 | -0.146 | -0.122 | -0.079 | -0.013 |
| AR | 0.219 | 0.317 | 0.224 | 0.074 | 0.099 | -0.094 | -1.612 | -2.676 | -0.230 |
| CA | -0.053 | -0.405 | -0.166 | -0.072 | 0.100 | -0.013 | -0.067 | 0.014 | 0.099 |
| CO | -0.079 | 0.293 | 0.076 | 0.000 | 0.037 | 0.043 | 0.004 | -0.116 | 0.043 |
| CT | 0.138 | -0.020 | 0.159 | -0.055 | -0.019 | -0.003 | 0.136 | -0.768 | -0.110 |
| FL | -0.202 | -0.024 | -0.170 | -0.362 | -0.302 | -0.087 | -0.153 | -0.246 | 0.395 |
| GA | -0.311 | 0.082 | 0.042 | 0.014 | 0.066 | 0.049 | -0.180 | 0.197 | 0.200 |
| ID | 0.114 | 0.121 | 0.054 | 0.049 | 0.083 | 0.019 | 0.044 | -0.056 | -0.108 |
| IL | 0.102 | -0.114 | 0.132 | 0.042 | 0.002 | 0.050 | -0.301 | -0.517 | -0.093 |
| IN | 0.088 | 0.231 | 0.163 | 0.079 | -0.106 | -0.043 | -0.282 | -0.163 | -0.191 |
| IA | -0.008 | 0.016 | 0.031 | 0.001 | 0.007 | -0.098 | -0.104 | -0.055 | -0.010 |
| KS | 0.138 | 0.157 | 0.231 | -0.022 | -0.065 | 0.092 | -0.641 | -0.267 | -0.147 |
| KY | -0.124 | -0.247 | -0.001 | 0.059 | -0.061 | -0.116 | 0.691 | 0.015 | 0.091 |
| LA | 0.570 | 0.643 | 0.081 | -0.069 | -0.061 | -0.096 | 0.430 | 0.526 | -0.274 |
| ME | 0.200 | 0.339 | -0.010 | 0.003 | -0.062 | -0.032 | -0.299 | -0.191 | -0.140 |
| MD | 0.157 | 0.322 | 0.039 | 0.024 | -0.020 | 0.015 | -0.165 | -0.147 | -0.092 |
| MI | 0.112 | 0.102 | 0.187 | 0.103 | 0.044 | 0.037 | -0.043 | 0.027 | -0.197 |
| MN | -0.060 | 0.107 | 0.155 | 0.084 | -0.064 | -0.025 | 0.021 | -0.009 | -0.124 |
| MS | 0.039 | 0.151 | -0.154 | -0.016 | 0.050 | 0.000 | -0.458 | -0.065 | -0.012 |
| MO | 0.018 | 0.029 | 0.056 | -0.019 | -0.035 | -0.107 | 0.051 | 0.156 | -0.019 |
| NE | 0.134 | 0.421 | 0.187 | 0.062 | -0.136 | -0.138 | -0.547 | -0.147 | -0.145 |
| NV | -0.202 | 0.431 | -0.002 | 0.140 | -0.058 | 0.029 | 0.127 | -0.078 | 0.154 |
| NH | 0.294 | 0.099 | -0.034 | -0.050 | -0.089 | -0.144 | 0.264 | -0.193 | -0.150 |
| NM | 0.348 | 0.331 | 0.639 | 0.353 | -0.042 | -0.235 | -0.134 | -0.250 | -0.244 |
| NY | -0.059 | 0.290 | 0.109 | -0.007 | 0.008 | -0.095 | -0.082 | -0.155 | -0.056 |
| NC | -0.239 | -0.413 | -0.064 | -0.169 | 0.004 | -0.021 | 0.195 | 0.179 | 0.239 |
| ND | 0.053 | 0.167 | 0.367 | 0.003 | 0.089 | -0.171 | -0.019 | 0.270 | -0.197 |
| OH | 0.017 | 0.341 | 0.144 | -0.050 | -0.079 | -0.270 | -0.181 | -0.140 | -0.121 |
| OK | 0.085 | 0.049 | 0.059 | -0.271 | -0.147 | -0.195 | -0.384 | -0.124 | 0.020 |
| OR | -0.017 | 0.151 | 0.145 | -0.131 | -0.076 | -0.020 | -0.055 | -0.101 | 0.043 |
| PA | 0.157 | 0.210 | 0.105 | -0.002 | -0.046 | -0.080 | -0.089 | -0.217 | -0.139 |
| SC | -0.069 | 0.043 | -0.101 | -0.168 | 0.054 | -0.028 | 0.195 | -0.997 | 0.082 |
| SD | 0.204 | 0.230 | 0.190 | 0.013 | -0.028 | 0.007 | -0.134 | -0.008 | -0.175 |
| TN | 0.026 | 0.025 | 0.056 | 0.009 | 0.010 | -0.047 | 0.042 | -0.133 | -0.031 |
| TX | 0.180 | 0.281 | 0.216 | 0.069 | 0.091 | 0.003 | -0.082 | -0.076 | -0.203 |
| UT | 0.085 | 0.389 | 0.264 | -0.004 | -0.025 | 0.058 | -0.028 | -0.026 | -0.114 |
| VT | 0.246 | 0.239 | 0.003 | -0.036 | 0.036 | 0.026 | 0.051 | -0.028 | -0.076 |
| VA | -0.007 | 0.213 | 0.186 | -0.007 | 0.033 | -0.009 | -0.053 | -0.119 | -0.057 |
| WA | 0.107 | 0.045 | -0.008 | -0.146 | -0.049 | -0.010 | 0.007 | 0.003 | -0.029 |
| WI | 0.023 | 0.120 | 0.091 | 0.024 | -0.003 | -0.044 | -0.020 | 0.047 | -0.082 |
| WY | 0.175 | 0.321 | 0.231 | 0.042 | 0.149 | -0.016 | 0.205 | -0.065 | -0.196 |
| *(continued)* | | | | | | | | | | | |
|  | | | | | | | | | | | |
| **Table A4.** *(continued)* | | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | US | 0.049 | -0.056 | 0.050 | 0.054 | 0.062 | 0.088 | 0.126 | 0.124 | -0.084 |
| Milk production per cow | AL | 0.108 | 0.191 | 0.159 | 0.099 | 0.257 | 0.116 | 0.055 | 0.175 | -0.177 |
| AZ | 0.013 | 0.075 | 0.029 | 0.001 | -0.002 | 0.096 | 0.106 | 0.051 | -0.058 |
| AR | 0.084 | -0.324 | 0.092 | 0.213 | 0.142 | 0.050 | 0.819 | 2.612 | -0.119 |
| CA | 0.055 | 0.132 | 0.114 | 0.089 | 0.042 | 0.083 | 0.078 | 0.008 | -0.164 |
| CO | 0.040 | -0.061 | 0.051 | 0.074 | 0.066 | 0.105 | 0.082 | 0.072 | -0.068 |
| CT | 0.038 | 0.043 | 0.001 | 0.090 | 0.080 | 0.052 | 0.089 | 0.309 | -0.093 |
| FL | 0.145 | 0.179 | 0.294 | 0.377 | 0.321 | 0.213 | 0.241 | 0.266 | -0.404 |
| GA | 0.175 | 0.028 | 0.012 | 0.106 | 0.071 | 0.103 | 0.107 | 0.090 | -0.219 |
| ID | 0.015 | -0.093 | 0.055 | 0.022 | 0.047 | 0.064 | 0.076 | 0.062 | -0.056 |
| IL | 0.031 | -0.013 | 0.026 | 0.061 | 0.030 | 0.002 | 0.279 | 0.384 | -0.058 |
| IN | 0.010 | 0.019 | -0.008 | 0.055 | 0.084 | 0.072 | 0.265 | 0.157 | -0.046 |
| IA | 0.054 | -0.004 | 0.072 | 0.058 | 0.015 | 0.090 | 0.168 | 0.128 | -0.084 |
| KS | -0.001 | -0.074 | -0.002 | 0.074 | 0.067 | 0.015 | 0.554 | 0.161 | -0.027 |
| KY | 0.161 | 0.153 | 0.151 | 0.070 | 0.142 | 0.128 | -0.234 | 0.223 | -0.209 |
| LA | -0.173 | -0.638 | 0.115 | 0.306 | 0.289 | 0.186 | -0.572 | 0.732 | -0.117 |
| ME | -0.057 | -0.185 | 0.091 | 0.077 | 0.099 | 0.101 | 0.232 | 0.351 | -0.046 |
| MD | 0.046 | -0.187 | 0.069 | 0.114 | 0.074 | 0.052 | 0.091 | 0.270 | -0.127 |
| MI | 0.008 | 0.006 | 0.017 | 0.031 | 0.044 | 0.019 | 0.077 | 0.064 | -0.045 |
| MN | 0.072 | -0.046 | 0.035 | 0.012 | 0.062 | 0.093 | 0.167 | 0.157 | -0.047 |
| MS | 0.144 | -0.183 | 0.225 | 0.146 | 0.120 | 0.108 | 0.036 | 0.441 | -0.176 |
| MO | 0.057 | -0.002 | 0.150 | 0.179 | 0.144 | 0.156 | 0.116 | 0.207 | -0.176 |
| NE | -0.011 | -0.245 | -0.007 | 0.032 | 0.121 | 0.056 | 0.304 | 0.153 | -0.001 |
| NV | 0.113 | -0.130 | 0.117 | -0.045 | 0.067 | 0.097 | 0.063 | 0.119 | -0.132 |
| NH | -0.054 | -0.058 | 0.092 | 0.091 | 0.109 | 0.092 | 0.123 | 0.247 | -0.067 |
| NM | -0.034 | 0.045 | -0.011 | 0.095 | 0.076 | 0.194 | 0.185 | 0.104 | -0.044 |
| NY | 0.102 | -0.124 | 0.021 | 0.064 | 0.061 | 0.112 | 0.119 | 0.146 | -0.095 |
| NC | 0.154 | 0.092 | 0.088 | 0.143 | 0.116 | 0.074 | -0.040 | 0.073 | -0.192 |
| ND | 0.037 | -0.146 | -0.099 | 0.072 | -0.044 | 0.001 | 0.152 | 0.010 | 0.025 |
| OH | 0.035 | -0.061 | -0.008 | 0.095 | 0.101 | 0.187 | 0.200 | 0.209 | -0.066 |
| OK | 0.076 | 0.010 | 0.117 | 0.273 | 0.196 | 0.210 | 0.140 | 0.353 | -0.212 |
| OR | 0.070 | -0.035 | -0.012 | 0.178 | 0.157 | 0.100 | 0.137 | 0.178 | -0.150 |
| PA | 0.007 | -0.020 | 0.042 | 0.030 | 0.079 | 0.137 | 0.197 | 0.385 | -0.086 |
| SC | 0.128 | 0.030 | 0.155 | 0.187 | 0.099 | 0.087 | -0.091 | 0.421 | -0.184 |
| SD | -0.034 | -0.136 | 0.005 | 0.046 | 0.062 | 0.028 | 0.150 | 0.065 | -0.002 |
| TN | 0.059 | -0.060 | 0.048 | 0.092 | 0.107 | 0.099 | -0.053 | -0.217 | -0.089 |
| TX | 0.059 | -0.034 | 0.022 | 0.072 | 0.085 | 0.106 | 0.093 | 0.086 | -0.095 |
| UT | 0.007 | -0.152 | -0.020 | 0.084 | 0.091 | 0.077 | 0.065 | 0.099 | -0.068 |
| VT | -0.002 | -0.086 | 0.071 | 0.098 | 0.055 | 0.056 | 0.084 | 0.159 | -0.117 |
| VA | 0.064 | -0.161 | -0.019 | 0.126 | 0.082 | 0.107 | 0.026 | 0.199 | -0.105 |
| WA | 0.021 | -0.027 | 0.047 | 0.105 | 0.098 | 0.085 | 0.072 | 0.062 | -0.100 |
| WI | 0.064 | -0.026 | 0.063 | 0.047 | 0.040 | 0.069 | 0.131 | 0.129 | -0.083 |
| WY | -0.029 | -0.186 | 0.037 | 0.101 | -0.012 | 0.159 | -0.234 | 0.167 | 0.016 |
| *(continued)* | | | | | | | | | | | |
| **Table A4.** *(continued)* | | | | | | | | | | | |
|  | Herd size | 1 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 199 | 200 to 499 | 500 to 999 | 1,000 or more | Exit |
|  | US | -0.142 | 0.083 | -0.177 | -0.106 | -0.058 | -0.075 | -0.107 | -0.141 | 0.195 |
| Consumer expenditures on dairy products | AL | -0.157 | 0.131 | -0.016 | -0.151 | -0.324 | -0.165 | 0.152 | 0.001 | 0.175 |
| AZ | -0.096 | 0.284 | -0.039 | -0.287 | -0.049 | -0.044 | -0.075 | -0.059 | 0.124 |
| AR | -0.317 | 0.257 | -0.310 | -0.350 | -0.250 | 0.134 | 1.707 | -0.910 | 0.345 |
| CA | -0.109 | 0.116 | -0.059 | -0.077 | -0.102 | -0.182 | -0.126 | -0.052 | 0.289 |
| CO | -0.026 | -0.009 | -0.112 | -0.093 | -0.108 | -0.243 | -0.114 | 0.000 | 0.082 |
| CT | -0.220 | 0.035 | -0.119 | -0.095 | -0.108 | -0.052 | -0.161 | 0.261 | 0.241 |
| FL | -0.032 | -0.201 | -0.210 | -0.151 | -0.106 | -0.237 | -0.191 | -0.133 | 0.202 |
| GA | -0.018 | -0.046 | 0.016 | -0.158 | -0.193 | -0.204 | 0.106 | -0.305 | 0.162 |
| ID | -0.119 | 0.281 | -0.116 | -0.048 | -0.125 | -0.129 | -0.150 | -0.077 | 0.156 |
| IL | -0.141 | 0.262 | -0.146 | -0.139 | -0.015 | 0.029 | -0.086 | -0.086 | 0.147 |
| IN | -0.111 | -0.172 | -0.130 | -0.152 | -0.015 | -0.002 | -0.112 | -0.036 | 0.227 |
| IA | -0.078 | 0.080 | -0.149 | -0.096 | 0.014 | -0.012 | -0.095 | -0.094 | 0.123 |
| KS | -0.123 | 0.104 | -0.178 | -0.094 | -0.009 | -0.016 | 0.093 | 0.009 | 0.140 |
| KY | -0.114 | 0.130 | -0.199 | -0.130 | -0.088 | 0.067 | -0.075 | -0.148 | 0.171 |
| LA | -0.345 | 0.342 | -0.181 | -0.332 | -0.313 | -0.078 | 0.584 | -1.434 | 0.401 |
| ME | -0.106 | 0.111 | -0.141 | -0.126 | -0.070 | -0.091 | -0.008 | -0.285 | 0.185 |
| MD | -0.231 | 0.216 | -0.136 | -0.226 | -0.102 | -0.035 | 0.197 | -0.237 | 0.279 |
| MI | -0.121 | -0.027 | -0.202 | -0.143 | -0.115 | -0.030 | -0.026 | -0.084 | 0.236 |
| MN | -0.025 | 0.080 | -0.199 | -0.086 | -0.003 | -0.068 | -0.208 | -0.163 | 0.159 |
| MS | -0.251 | 0.228 | -0.133 | -0.179 | -0.209 | -0.091 | 0.785 | -0.470 | 0.234 |
| MO | -0.112 | 0.066 | -0.258 | -0.237 | -0.134 | 0.000 | 0.077 | -0.275 | 0.251 |
| NE | -0.099 | 0.150 | -0.135 | -0.083 | -0.037 | 0.129 | 0.098 | -0.045 | 0.092 |
| NV | -0.084 | 0.085 | -0.154 | 0.152 | -0.008 | -0.205 | -0.152 | -0.164 | 0.131 |
| NH | -0.186 | 0.146 | -0.114 | -0.119 | -0.081 | 0.012 | -0.206 | -0.144 | 0.234 |
| NM | -0.186 | -0.218 | -0.329 | -0.365 | -0.014 | -0.207 | -0.225 | -0.068 | 0.264 |
| NY | -0.139 | 0.084 | -0.129 | -0.115 | -0.087 | -0.072 | -0.060 | -0.044 | 0.193 |
| NC | -0.056 | 0.373 | -0.042 | -0.061 | -0.202 | -0.062 | 0.051 | -0.216 | 0.083 |
| ND | -0.085 | 0.196 | -0.166 | -0.084 | 0.070 | 0.304 | -0.124 | -0.136 | 0.094 |
| OH | -0.075 | -0.145 | -0.110 | -0.114 | -0.070 | -0.012 | -0.049 | -0.122 | 0.191 |
| OK | -0.224 | 0.026 | -0.225 | -0.158 | -0.131 | -0.044 | 0.470 | -0.364 | 0.300 |
| OR | -0.142 | 0.073 | -0.024 | -0.193 | -0.220 | -0.154 | -0.125 | -0.204 | 0.237 |
| PA | -0.158 | -0.053 | -0.186 | -0.058 | -0.073 | -0.095 | -0.111 | -0.343 | 0.270 |
| SC | -0.162 | 0.000 | -0.104 | -0.100 | -0.206 | -0.090 | 0.086 | 0.572 | 0.204 |
| SD | -0.137 | 0.118 | -0.177 | -0.059 | -0.022 | 0.026 | 0.013 | -0.027 | 0.130 |
| TN | -0.124 | 0.192 | -0.080 | -0.119 | -0.142 | -0.023 | 0.251 | 0.983 | 0.129 |
| TX | -0.270 | -0.082 | -0.180 | -0.148 | -0.222 | -0.178 | -0.023 | -0.054 | 0.321 |
| UT | -0.091 | 0.149 | -0.112 | -0.144 | -0.150 | -0.176 | -0.028 | -0.110 | 0.193 |
| VT | -0.221 | 0.094 | -0.116 | -0.146 | -0.103 | -0.083 | -0.109 | -0.161 | 0.245 |
| VA | -0.108 | 0.178 | -0.109 | -0.205 | -0.166 | -0.119 | 0.212 | -0.042 | 0.207 |
| WA | -0.154 | 0.167 | -0.028 | -0.078 | -0.167 | -0.179 | -0.121 | -0.108 | 0.226 |
| WI | -0.090 | 0.020 | -0.195 | -0.104 | -0.020 | -0.021 | -0.116 | -0.175 | 0.192 |
| WY | -0.100 | 0.199 | -0.194 | -0.155 | 0.022 | -0.174 | 0.522 | -0.084 | 0.118 |