| Ingredient                      | Nursery 3 | Nursery 4 | GF-1       | GF-2       | GF-3       | GF-4       | GF-5       | GF-6       | GF-7       |
|--------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
|                                | Barrow/Gilt | Barrow/Gilt | Barrow/Gilt | Barrow/Gilt | Barrow/Gilt | Barrow/Gilt | Barrow/Gilt | Barrow/Gilt | Barrow/Gilt |
| Corn                           | 660.60     | 861.88    | 800.62     | 1020.46    | 1013.36    | 1236.71    | 1204.82    | 1382.01    | 1335.94    |
| Corn germ meal                 | 48.01      | 341.84    | 564.17     | 464.72     | 467.93     | 366.89     | 381.32     | 301.16     | 322.00     |
| Soybean meal                   | 326.70     | 594.00    | 490.79     | 394.42     | 397.53     | 299.63     | 313.60     | 235.93     | 256.12     |
| Fat - yellow grease (post-pellet) | 64.46     | 47.08     | 47.64      | 32.51      | 18.50      | 22.14      | 10.65      | 14.29      | 6.72       |
| Fat - yellow grease            | 41.55      |           | 13.86      | 7.00       | 7.00       | 7.00       | 7.00       | 7.00       | 7.00       |
| L-Lysine HCl (98%)             | 18.13      | 326.70    | 594.00     | 490.79     | 394.42     | 366.89     | 381.32     | 235.93     | 256.12     |
| Salt                           | 11.17      | 6.91      | 9.65       | 8.17       | 8.22       | 6.71       | 6.93       | 5.74       | 6.05       |
| Pelleting aid                  | 10.00      | 10.00     | 10.00      | 10.00      | 10.00      | 10.00      | 10.00      | 10.00      | 10.00      |
| L-Threonine (98%)              | 2.07       | 2.07      | 2.35       | 1.78       | 1.80       | 1.23       | 1.31       | 0.85       | 0.97       |
| Phytase                        | 1.90       | 1.90      | 0.80       | 0.76       | 0.76       | 0.73       | 0.73       | 0.70       | 0.71       |
| Vitamin premix                 | 0.99       | 0.99      | 0.60       | 0.57       | 0.57       | 0.55       | 0.55       | 0.53       | 0.53       |
| Copper chloride (58%)          | 0.68       | 0.68      | 0.43       | 0.43       | 0.43       | 0.43       | 0.43       | 0.43       | 0.43       |
| Nursery basemix                | 791.99     | 111.15    | 76.52      | 20         | 20         | 6.93       | 5.94       | 0.74       | 20         |
| DDGS                           |            |           |            |            |            |            |            |            |            |
| Mecadox 2.5 (g/lb)             |            |           |            |            |            |            |            |            |            |
| Zinc oxide (72%)               |            |           |            |            |            |            |            |            |            |
| Organic acidifier              |            |           |            |            |            |            |            |            |            |
| Carbohydrase                   |            |           |            |            |            |            |            |            |            |
| Total                          | 2000       | 2000      | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       |

| Nutrient                      | Units |
|-------------------------------|-------|
| Metabolizable energy          | Kcal/lb |
| Crude protein                 | %     |
| Cystine, Dig                  | %     |
| Isoleucine, Dig               | %     |
| Lysine, Total                 | %     |
| Lysine, Dig                   | %     |
| Leucine, Dig                  | %     |
| Met + Cys, Dig                | %     |
| Threonine, Dig                | %     |
| Tryptophan, Dig               | %     |
| Valine, Dig                   | %     |
| Phosphorus                    | %     |
| P, Available                  | %     |
| Calcium                       | %     |
| Moisture                      | %     |
| Crude fat                     | %     |
| Crude fiber                   | %     |
| ADF                           | %     |
| NDF                           | %     |

Table S1. Diet formulae and their nutritional values