## **Beginner Dairy Goat Fact Sheet**

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**Goat Information** – Visit with goat producers; ISU Extension Goat website can be located at: http://www.extension.iastate.edu/dairyteam/goatssheep.html

**Goat Housing** – Minimum space required is 15-20 square feet/doe. Goats need ample bedding along with adequate feeding space that minimizes hay waste. Water and ventilation is pertinent.

**Milking Parlor** -- swing 12-14 parlor with 6-7 units will milk about 100 does per person per hour.

**Kid Management** – average 2 kids per doe; highly labor intensive; dip navel with iodine; feed colostrum (CAE free) within hour if possible; may need to stomach tube. Wean at 4-6 weeks from milk or replacer (lamb or good calf replacer 20% protein, 20% fat w/o vegetable sources); get on dry feed (hay and 18%+ starter) within 1-2 weeks. Be ready for scours--can spell disaster. After 4 months feed good hay and .5 lbs. grain or poor hay and 1 to 1.5 lbs. grain per day.

| Kid Milk Feeding Schedule: |                | (from Barry Stevens, Missouri) |  |  |  |
|----------------------------|----------------|--------------------------------|--|--|--|
| Age                        | Amount of Milk | Times per day (ideal)          |  |  |  |
| 1-3 days                   | 4 ounces       | 4                              |  |  |  |
| 4-14 days                  | 8-12 ounces    | 3                              |  |  |  |
| 2 weeks on                 | 16 ounces      | 2                              |  |  |  |

**For the milking herd**, feed free choice good quality hay or pasture (18%+ protein) with grain at 1 lb for 3 lbs milk in early/mid lactation. Basic Grain Rations for a Milking Herd:

| (U of Missouri)    | Level of protein in | n finished mix | (pounds) |          |
|--------------------|---------------------|----------------|----------|----------|
| Ingredient         | 14%                 | 16%            | 18%      | 20%      |
| Coarse corn        | 38 (lbs)            | 33 (lbs)       | 27 (lbs) | 22 (lbs) |
| Rolled oats        | 20                  | 20             | 20       | 20       |
| Soybean Meal (44%) | 19                  | 24             | 30       | 35       |
| Beet pulp          | 10                  | 10             | 10       | 10       |
| Molasses           | 10                  | 10             | 10       | 10       |
| Trace mineral salt | 1                   | 1              | 1        | 1        |
| Dical Phoshate     | 1.8                 | 1.8            | 1.8      | 1.8      |
| Magnesium oxide    | 0.2                 | 0.2            | 0.2      | 0.2      |

Add a vitamin premix to provide 1,000 units vitamin A; 500 units of vitamin D; and 3 units of vitamin E per lb. of grain.

**Dry does**, if not thin, grain at 1/2 to 1 pound per day with all forage she will eat. It is important to keep in good condition in dry period for healthy kids and good milk production.

**Vaccinations** (prior to kidding) 2cc Perfringens CD & Tetanus toxoid; 1cc BoSe; deworm as needed; respiratory and other diseases according to veterinarian recommendations.

**Goat Breeds and Breeding** (Estimated Milk Production for well managed herds) Saanen (2,154); Alpine (2,134); Toggenburg (2,026); LaMancha (1,837); Nubian (1,797)

**Milk Production:** Ranges of 1,200-2,600 pounds per doe per year depending on feeding, genetics and other management. Lactation average is 284 days. Puberty: 4 months of age. Breeding: 70-80 pounds or 7-10 months of age. Rebreeding: natural season late-August to mid-March (mostly Sept-Jan) unless altered. Gestation: 145-155 days. Kidding Rate: 2-2.3 kids/doe/year.

| Cash Costs           Forage dry matter         \$100.00         ton         0.90         tons         \$90.00           Grain Mixture         \$0.09         lb         1350.0         lbs         \$114.75         \$30.00           Milk Replacer         \$1.80         lb         25.0         lbs         \$45.00           Supplies         \$12.00         \$12.00         \$15.00         \$15.00           Bedding         \$70.00         ton         0.15         tons         \$10.50           Fuel         \$2.49         gallon         2.00         gallons         \$4.98           Custom Hire         \$7.00         \$14.00         \$14.00         \$14.00           Repairs/Other         \$10.00         \$10.00         \$10.00         \$10.00           Repairs/Other         \$12.000         7.00%         8.00%         \$18.00           Buillding/Housing         \$3,000         10.00%         8.00%         \$5.40           Machinery/Other         \$2,500         5.00%         8.00%         \$3.25           Livestock         \$27,250         \$2.00         8.00%         \$18.00           Micks(-from cull does %)         \$125         head         0.00%         8.00%   |  |                            |               |             | Per Doe  | Does in |
|---|--|----------------------------|---------------|-------------|----------|---------|
| ## State  | h Incomes  | Price Unit                 | Quan          | <u>tity</u> | <u>1</u> |         |
| Cull Does         \$60.00         head         0.30         head         \$18.00           Doe Kids         \$50.00         head         0.50         head         \$25.00           Other I ncome         Total I ncomes         \$540.60         \$           Cash Costs         Forage dry matter         \$100.00         ton         0.90         tons         \$90.00           Grain Mixture         \$0.09         lb         1350.0         lbs         \$114.75         \$3           Milk Replacer         \$1.80         lb         25.0         lbs         \$45.00           Supplies         \$12.00         \$15.00         \$15.00         \$15.00           Bedding         \$70.00         ton         0.15         tons         \$10.50           Fuel         \$2.49         gallon         2.00         gallons         \$4.98           Custom Hire         \$10.00         \$14.00         \$10.00         \$10.00           Repairs/Other         \$12,000         7.00%         8.00%         \$18.00           Building/Housing         \$3,000         10.00%         8.00%         \$5.40           Machinery/Other         \$2,500         5.00%         8.00%         \$3.25 </td <td>Sales \$</td> <td>31.00 cwt</td> <td>16.00</td> <td>cwts</td> <td>\$496.00</td> <td>\$49,</td>   | Sales \$   | 31.00 cwt                  | 16.00         | cwts        | \$496.00 | \$49,   |
| Second   | <mark>/ Kids                                   </mark> | \$2.00 <b>head</b>         | 0.80          | head        | \$1.60   | \$      |
| Cash Costs   Forage dry matter   \$100.00   ton   0.90   tons   \$90.00   forain Mixture   \$0.09   lb   1350.0   lbs   \$114.75   forage dry matter   \$1.80   lb   25.0   lbs   \$45.00   forain Mixture   \$12.00   forain Mixture   \$15.00   forain Mixture   \$15.00   forain Mixture   \$15.00   forain Mixture   \$10.50   forain Mixture   \$10.00   forain Mixture   | Does \$6   | 60.00 <b>head</b>          | 0.30          | head        | \$18.00  | \$1,    |
| Total Incomes         \$540.60         \$           Cash Costs         Forage dry matter         \$100.00         ton         0.90         tons         \$90.00           Grain Mixture         \$0.09         lb         1350.0         lbs         \$114.75         \$3           Milk Replacer         \$1.80         lb         25.0         lbs         \$45.00           Supplies         \$12.00         \$12.00         \$15.00         \$15.00           Bedding         \$70.00         ton         0.15         tons         \$10.50           Fuel         \$2.49         gallon         2.00         gallons         \$4.98           Custom Hire         \$7.00         \$14.00         \$14.00         \$14.00           Repairs/Other         \$12.000         \$10.00         \$1  | Kids \$5   | 50.00 <b>head</b>          | 0.50          | head        | \$25.00  | \$2,    |
| Cash Costs           Forage dry matter         \$100.00         ton         0.90         tons         \$90.00           Grain Mixture         \$0.09         lb         1350.0         lbs         \$114.75         \$  | er Income  |                            |               |             | \$0.00   |         |
| Forage dry matter \$100.00 ton 0.90 tons \$90.00  Grain Mixture \$0.09 lb 1350.0 lbs \$114.75 states \$1.80 lb 25.0 lbs \$45.00  Supplies \$12.00 lbs \$15.00  Bedding \$70.00 ton 0.15 tons \$10.50  Fuel \$2.49 gallon 2.00 gallons \$4.98  Custom Hire \$7.00 ltilities \$14.00  Repairs/Other \$10.00  Total Cash Costs \$323.23 \$  Investment Costs \$FMValue Depreciation Interest \$2.40 ltilities \$10.00 ltilities \$10.  |  |                            | Total Inco    | omes        | \$540.60 | \$54,06 |
| Forage dry matter \$100.00 ton 0.90 tons \$90.00 Grain Mixture \$0.09 lb 1350.0 lbs \$114.75 states \$1.80 lb 25.0 lbs \$45.00 Supplies \$12.00 lbs \$15.00 lbs \$15.00 lbs \$15.00 lbs \$10.50 lbs \$1 |  |                            |               |             |          |         |
| Grain Mixture       \$0.09 lb       1350.0 lbs       \$114.75       \$350.0 lbs       \$45.00         Milk Replacer       \$1.80 lb       25.0 lbs       \$45.00         Supplies       \$12.00       \$15.00         Vet Fees/Medicine       \$15.00       \$15.00         Bedding       \$70.00 ton       0.15 tons       \$10.50         Fuel       \$2.49 gallon       2.00 gallons       \$4.98         Custom Hire       \$7.00       \$14.00         Utilities       \$14.00       \$10.00         Repairs/Other       \$10.00       \$10.00         Fuel       \$12.000       \$10.00         Repairs/Other       \$12.000       \$10.00         Building/Housing       \$3,000       \$10.00%       \$0.00%       \$18.00         Building/Housing       \$3,000       \$0.00%       \$0.00%       \$3.25         Livestock       \$27,250       \$0.00%       \$0.00%       \$18.00         Machinery/Other       \$2.25       head       0.00%       \$0.00%       \$3.00         Kids(-from cull does %)       \$125       head       0.00%       \$0.00%       \$4.80         Total Investment       \$44,750       Investments Costs       \$52.45  | h Costs  |                            |               |             |          |         |
| Supplies  | age dry matter \$10                                    | 00.00 ton                  | 0.90          | tons        | \$90.00  | \$9,00  |
| Supplies   Standard   | in Mixture   | \$0.09 lb                  | 1350.0        | lbs         | \$114.75 | \$11,47 |
| Seedding  | Replacer :   | \$1.80 lb                  | 25.0          | lbs         | \$45.00  | \$4,50  |
| Sedding   \$70.00   ton   0.15   tons   \$10.50   | plies  |                            |               |             | \$12.00  | \$1,20  |
| Fuel \$2.49 gallon 2.00 gallons \$4.98  Custom Hire \$7.00  Utilities \$14.00  Repairs/Other \$10.00  Total Cash Costs \$323.23 \$  Investment Costs \$FMValue Depreciation Interest  Equipment/Parlor \$12,000 7.00% 8.00% \$18.00  Buillding/Housing \$3,000 10.00% 8.00% \$5.40  Machinery/Other \$2,500 5.00% 8.00% \$3.25  Livestock \$27,250  Does \$225 head 0.00% 8.00% \$18.00  Kids(-from cull does %) \$125 head 0.00% 8.00% \$3.00  Bucks (20 does/buck) \$200 head 40.00% 8.00% \$4.80  Total Investment \$44,750 Investments Costs \$52.45  | Fees/Medicine  |                            |               |             | \$15.00  | \$1,50  |
| Custom Hire         \$7.00           Utilities         \$14.00           Repairs/Other         \$10.00           Total Cash Costs         \$323.23           Investment Costs         \$FMValue         Depreciation         Interest           Equipment/Parlor         \$12,000         7.00%         8.00%         \$18.00           Buillding/Housing         \$3,000         10.00%         8.00%         \$5.40           Machinery/Other         \$2,500         5.00%         8.00%         \$3.25           Livestock         \$27,250         5.00%         8.00%         \$18.00           Mids(-from cull does %)         \$125         head         0.00%         8.00%         \$3.00           Bucks (20 does/buck)         \$200         head         40.00%         8.00%         \$4.80           Total Investment         \$44,750         Investments Costs         \$52.45   | <mark>ding</mark> \$7                                  | 70.00 ton                  | 0.15          | tons        | \$10.50  | \$1,05  |
| State   Stat  | <mark>l                                    </mark>     | \$2.49 <mark>gallon</mark> | 2.00          | gallons     | \$4.98   | \$49    |
| Total Cash Costs   \$323.23   \$  | tom Hire   |                            |               |             | \$7.00   | \$70    |
| Total Cash Costs   \$323.23   \$  | ities  |                            |               |             | \$14.00  | \$1,40  |
| Investment Costs  | airs/Other   |                            |               |             | \$10.00  | \$1,00  |
| Equipment/Parlor       \$12,000       7.00%       8.00%       \$18.00         Buillding/Housing       \$3,000       10.00%       8.00%       \$5.40         Machinery/Other       \$2,500       5.00%       8.00%       \$3.25         Livestock       \$27,250         Does       \$225       head       0.00%       8.00%       \$18.00         Kids(-from cull does %)       \$125       head       0.00%       8.00%       \$3.00         Bucks (20 does/buck)       \$200       head       40.00%       8.00%       \$4.80         Total Investment       \$44,750       Investments Costs       \$52.45   |  | Т                          | otal Cash Co  | osts        | \$323.23 | \$32,32 |
| Equipment/Parlor       \$12,000       7.00%       8.00%       \$18.00         Buillding/Housing       \$3,000       10.00%       8.00%       \$5.40         Machinery/Other       \$2,500       5.00%       8.00%       \$3.25         Livestock       \$27,250         Does       \$225       head       0.00%       8.00%       \$18.00         Kids(-from cull does %)       \$125       head       0.00%       8.00%       \$3.00         Bucks (20 does/buck)       \$200       head       40.00%       8.00%       \$4.80         Total Investment       \$44,750       Investments Costs       \$52.45   | estment Costs \$FM\                                    | <mark>Value De</mark> r    | oreciation    | Interes     | t        |         |
| Building/Housing       \$3,000       10.00%       8.00%       \$5.40         Machinery/Other       \$2,500       5.00%       8.00%       \$3.25         Livestock       \$27,250       \$25       bead       0.00%       8.00%       \$18.00         Kids(-from cull does %)       \$125       bead       0.00%       8.00%       \$3.00         Bucks (20 does/buck)       \$200       bead       40.00%       8.00%       \$4.80         Total Investment       \$44,750       Investments Costs       \$52.45  | ipment/Parlor \$12                                     |                            |               |             |          | \$1,80  |
| Machinery/Other       \$2,500       5.00%       8.00%       \$3.25         Livestock       \$27,250       5.00%       8.00%       \$18.00         Does       \$225       head       0.00%       8.00%       \$18.00         Kids(-from cull does %)       \$125       head       0.00%       8.00%       \$3.00         Bucks (20 does/buck)       \$200       head       40.00%       8.00%       \$4.80         Total Investment       \$44,750       Investments Costs       \$52.45   |  |                            |               |             |          | \$54    |
| Livestock         \$27,250           Does         \$225         head         0.00%         8.00%         \$18.00           Kids(-from cull does %)         \$125         head         0.00%         8.00%         \$3.00           Bucks (20 does/buck)         \$200         head         40.00%         8.00%         \$4.80           Total Investment         \$44,750         Investments Costs         \$52.45  |  | 2,500                      | 5.00%         | 8.00%       | \$3.25   | \$32    |
| Does         \$225         head         0.00%         8.00%         \$18.00           Kids(-from cull does %)         \$125         head         0.00%         8.00%         \$3.00           Bucks (20 does/buck)         \$200         head         40.00%         8.00%         \$4.80           Total Investment         \$44,750         Investments Costs         \$52.45   |  |                            |               |             |          |         |
| Kids(~from cull does %)       \$125       head       0.00%       8.00%       \$3.00         Bucks (20 does/buck)       \$200       head       40.00%       8.00%       \$4.80         Total Investment       \$44,750       Investments Costs       \$52.45   |  |                            | 0.00%         | 8.00%       | \$18.00  | \$1,80  |
| Bucks (20 does/buck)         \$200         head         40.00%         8.00%         \$4.80           Total Investment         \$44,750         Investments Costs         \$52.45   |  |                            |               |             | \$3.00   | \$30    |
| Total Investment \$44,750 Investments Costs \$52.45   | cks (20 does/buck)                                     | \$200 <b>head</b>          | 40.00%        | 8.00%       | \$4.80   | \$48    |
|   | •  |                            |               |             |          | \$5,24  |
|   |  |                            |               |             |          | \$37,56 |
|   |  |                            |               |             |          |         |
| Net Return to Labor \$164.92  |  | Net F                      | Return to Lab | oor         | \$164.92 | \$16,49 |
| Labor Costs\$9.00hour15hours\$135.00\$  | or Costs   | \$9.00 <b>hour</b>         | 15            | hours       | \$135.00 | \$13,50 |

This budget is a general estimate for educational purposes only. Producers are encouraged to determine their own budget for their particular operation. Costs on dairy goat farms vary considerably due to genetics, production levels, feed costs, management, labor efficiency with numbers of does milked with equipment and parlor investment, etc.