EXAMPLE HERD DATA FOR ANS 408 LAB ACTIVITY

Checklist for developing costs, revenue and returns for a meat goat (or sheep) enterprise

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The following list includes items that might be used in a meat goat (or sheep) enterprise. It serves as a checklist but all the items listed may not be needed or used. The data generated from this worksheet can be used to develop an enterprise budget using a template available at http://www.ag-econ.ncsu.edu/faculty/benson/benson.html

This template is an Excel© spreadsheet and the user can enter his or her data in the yellow or green colored cells. There are two worksheets, one is the budget and the other is used to generate fixed or ownership costs for facilities and equipment and equipment operating expenses. Users are advised to read the instructions contained in the document with the title "Instructions for using the budget template."

A. Herd, herd performance and revenue

1. Number of does ___50____
2. Number of bucks ___2___(1 for 25 does)
3. Kid Crop, live births as % of does exposed ___180%__
4. Kid mortality rate, birth to sale age _10%___
5. Male kids sold for meat, % of surviving kid crop* _50%____
6. Male kids sold for breeding stock, if any, % of surviving kid crop* ___0%__
7. Female kids sold for meat, % of surviving kid crop* ___40%___
8. Female kids retained for replacement breeding stock, % of surviving kid crop* _12%_ (The number of kids retained plus purchased replacements must equal number of does died and culled if the herd numbers are to be maintained).
9. Female kids sold for breeding stock, if any, % of surviving kid crop* ___0%____

*Items 5 through 9 must add to 100% of total kids surviving.
10. Annual culling rate for does, % of doe herd __10%____
11. Annual death loss rate for does, % of herd per year __0%____
12. Annual culling or replacement rate for bucks, % per year __50%____
13. Annual death loss rate for does, % of herd per year __0%____
14. Annual culling or replacement rate for bucks, % per year __50%____
15. Average age of male kids sold for meat, months, __7__
16. Average age of female kids sold for meat, months, __7__
17. Average live weight of male kids sold for meat, lb per head. __70 lb____
18. Average live weight of female kids sold for meat, lb per head. __50 lb____
19. Average live weight of cull does sold for meat, lb per head. __100 lb____
20. Average live weight of cull or replaced bucks sold, lb per head. __180 lb____
21. Average price received for male kids sold for meat, $/lb. __$1.25____
22. Average price received for female kids sold for meat, $/lb. __$1.25____
23. Average price received for male kids sold for breeding stock, $/lb. __$2.50____
24. Average price received for female kids sold for breeding stock, $/lb. __$2.00____
25. Average price received for cull does sold for meat, $/lb. __$0.75____
26. Average price received for cull bucks sold, $/lb. __$0.75____
27. a) Are any replacement does purchased, yes or no? __No____
       b) If yes to 24a, average price paid for replacement does $/head, $____
28. Average price paid for breeding bucks, $ per head __$300____

B. Feeding Program and costs
29. Number of days herd grazes pasture per year __270____
30. Average number of does per acre of pasture (Stocking rate) __2.5____
31. Pasture management practices, days between moves to fresh pasture or paddocks, 1 = daily, 2 = every other day, 7 = weekly, etc. __7____
32. Number of days doe herd is fed hay __95____
33. Average amount of hay fed, lb. per doe per day __4____
34. a) Is hay bought or made on the farm? __Bought____
       b) If hay is bought, average price per ton paid, delivered, $ __150____
35. Number of days feeder kids are fed hay __60____
36. Average amount of hay fed, lb. per kid per day __2____
37. Number of days doe herd is fed supplementary grain mix __ 90 __
38. Average amount of grain mix fed, lb. per doe per day __ 1.5 __
39. Price of doe grain mix per ton, delivered, $ __ 270 __
40. Number of days feeder kids are fed grain mix __ 60 __
41. Average amount of grain mix fed, lb. per kid per day __ 1.5 __
42. Price of kid grain mix per ton, delivered, $ __ 350 __
43. Number of days doe herd is fed mineral mix (if separate from grain mix) __ 365 __
44. Average amount of mineral mix fed, ounces per doe per day (if separate from grain mix) __ 0.5 oz __
45. Number of days feeder kids are fed mineral mix (if separate from grain mix) __ 0 __
46. Average amount of mineral mix fed, ounces per kid per day (if separate from grain mix) __ 0 __
47. Price of mineral per 100 pounds, delivered, $ __ 40 __

C. Pasture, pasture management and costs (Use NCSU Forage Budgets to estimate pasture production and hay making costs).

48. Number of acres of improved pasture used by goats __ 20 __
49. Pasture type(s) __ Perennial cool season grass, conventionally fertilized __
50. Annual fertilization program -- sources used, e.g., commercial, poultry litter, etc. __ commercial __
51. Annual fertilizer application, cwts. __ see NCSU forage budget __
52. Annual fertilizer application, analysis (eg 10-10-10), __ see NCSU forage budget __
53. Times and methods of application, (eg, custom spread 5 cwt per acre in spring, fall top dress N with own tractor and spreader) __ see NCSU budget __
54. a) Is any hay made from the goat pasture acreage, yes or no? __ No __
    b) If yes, total tons of hay made on the goat pasture acreage __
    c) If yes, what percentage of total dry matter yield harvested as hay? % __
    d) If yes, cost to make hay (excluding forage production cost) per ton, $ __
55. a) Are goat pastures also grazed by other species, yes or no? __ No __
    b) If yes, what percentage of the grazing is consumed by the goat herd? __
56. a) Is hay made on acreage not grazed by goats, yes or no? __ No __
b) If yes, tonnage made per year, as fed. _____
c) If yes, cost per ton of hay made, including crop cost, as fed. _____

D. Herd health and costs (expressed as costs per doe per year even if kids are treated)

57. Dewormer cost per doe per year, $ _0.90___
58. Vaccination cost per doe per year, $__0.25___
59. Other herd medication costs, cost per doe per year, $_1.25____
60. Veterinarian’s services, cost per doe per year, $_1.50____

E. Labor use and costs

61. Average number of hours spent per doe per year by unpaid family members,
   a) Operating machinery and equipment, hours __75___
   b) Working with livestock, hours, __290___
62. Estimated value of family labor, e.g., based on off-farm work opportunities or the
cost of hiring non-family members, $ per hour, __$10.00/hr__
63. Average number of hours spent per doe per year by hired workers,
   a) Operating machinery and equipment, hours ______
   b) Working with livestock, hours, ______
64. Labor cost per hour for hired workers, including fringe benefits, $________/hour

F. Other Costs

65. Predator control, cost of maintaining a predator control animal, $/year, _$350_
66. Miscellaneous expenses not included elsewhere, $/doe, _$2.00___
67. Sales commissions, transportation and related marketing expenses, $/head sold,
   ____$5.00/hd__
68. Cost of operating capital, (actual or opportunity cost of own money), annual interest
   rate, %, __5.00%__

G. Investments in Livestock, Facilities & Equipment, (including current value of existing
   investments if item is salable or otherwise recoverable)

69. Estimated average value of does, $ per head____
70. Estimated average value of bucks, $ per head____
71. a) Fencing cost, perimeter, linear feet ______
    b) Cost per foot run, if new, $_____
Meat goat enterprise data checklist

72. a) Fencing cost, internal, linear feet _______
   b) Cost per foot run, if new, $_____
73. a) Fencing cost, temporary electric, linear feet (posts and wire) _______
   b) Cost per foot run, $_____
74. Type of working facilities (pens, corral, etc.) ______________________________
75. Working facilities (pens, corral, etc.), estimated new cost or value $_____
76. Barns for livestock, size ______________________________
77. Barns for livestock, estimated new cost or value $_____
78. Hay barn, size ______________________________
79. Hay barn, estimated new cost or value $_____
80. Machine shed or shop, size ______________________________
81. Machine shed or shop estimated new cost or value $_____
82. Other, eg, general storage, size ______________________________
83. Other, eg, general storage, estimated new cost or value $_____
84. Tractor 1 (type, horse power) ______________________________
85. Tractor 1, estimated new cost or value $_____
86. Tractor 2 (type, horse power) ______________________________
87. Tractor 2, estimated cost to buy new or value $_____
88. Fertilizer spreader (type, size) ______________________________
89. Fertilizer spreader estimated cost to buy new or value $_____
90. Sprayer, (type, size) ______________________________
91. Sprayer estimated cost to buy new or value $_____
92. Mower, (Type, size) ______________________________
93. Mower estimated cost to buy new or value $_____
94. Bush hog (size) ______________________________
95. Bush hog, estimated cost to buy new or value $_____
96. Hay baler, type and size ______________________________
97. Hay Baler, estimated cost to buy new or value $_____
98. Hay rake, (type, size) ______________________________
99. Hay rake, estimated cost to buy new or value $_____
100. Tedder, (Type, size) ______________________________
101. Tedder, estimated cost to buy new or value $_____
102. Pickup truck (size, type) ________________________________________________
103. Pickup truck, estimated cost to buy new or value $_____
104. Enterprise share of pick up truck use, % of total annual use, %_____
105. ATV, (size, type) ______________________________________________________
106. ATV, cost to buy new or value $_____
107. Livestock trailer, cost to buy new or value $_____
108. Enterprise share of trailer use, % of total annual use, %_____

H. **Other information** about the goat enterprise affecting costs or revenue, e.g., items not listed above, notes on total size of farm, notes on other farm enterprises (and, if so, what facilities and equipment are shared, what % of use or cost is allocated to which enterprise)

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