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# 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) I f 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, $_____

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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