Texas Agricultural Experiment Station Texas Agricultural Extension Service The Texas A&M University System

# Non-Native Deer Farming Symposium





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Texas Agricultural Experiment Station • Edward A. Hiler, Director The Texas A&M University System • College Station, Texas

#### **CHAPTER 11**

#### FARMING NON-NATIVE DEER ON IMPROVED PASTURES-ESTIMATED COSTS AND RETURNS

G. M. Clary1

One of the most important steps in planning a non-native deer farming operation is to estimate initial investment, operating costs and potential revenues. This analysis provides an outlook for profit under the production system which you plan to initiate. Farming non-native deer is by no means a "get rich quick" scheme. However, careful attention to production management and marketing can result in very acceptable rates of return when compared to other agricultural enterprises.

The attached budgets are guides for estimating costs of two phases (breeding herd and growth of weaned fawns for venison production or breeding stock) of non-native deer production. Values included as examples in the breeding herd budget characterize a start-up situation with a herd of 30 or 200 does. The stocker budget illustrates the growing and marketing of the weaned fawns from the breeding herd. The 200 doe operation utilizes about the same acreage as a one-bull unit cow-calf enterprise on improved pastures in East Texas.

Budgets are good planning tools because preparing them requires you to think about production relationships and to gather information about prices, costs, quantities of feed required, etc. The following observations elaborate on some of the basic relationships included in the deer budgets and should be helpful as you start characterizing your operation.

1. Both budgets start with assumptions upon which the operating budgets are based. In addition, the breeding herd budget includes an estimated cost of the equipment, improvements and breeding stock necessary to start the enterprise. Most trucks, tractors and other rolling stock are assumed to be used primarily for other enterprises on the farm, so only a small portion of their cost is allocated to the deer enterprise. Nearly all single use items, such as fence, working facilities and deer handling equipment, are charged to deer enterprises.

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- 2. Stocking rates on a head per acre basis are much higher for deer than for most other forage-based livestock enterprises. For example, an estimated 35 acres are required to maintain a 200 doe breeding herd and to raise their fawns.
- 3. Management plays an important role in determining the weaning percentage. It is important to maintain inventory records so managers can determine where losses occur throughout the production process. Losses between the time does are exposed to bucks and when fawns are weaned may result from culling or losing does due to injury or disease; from loss of fawns due to abortion, failure to get pregnant, or to birthing problems; or from mishaps occurring between birth and weaning of fawns. An acceptable average weaning percentage is 85%.
- 4. Full cost accounting requires that interest costs be included even though owner's capital is used to finance the operation. Either the actual interest rate or an opportunity rate (what the owner would have received by placing the money in an interest earning account) should be included in the budget.
- 5. Bucks are replaced every two years to bring fresh genetics into the herd. Does may remain in the breeding herd for 10 years or more unless managers find reasons to cull them.
- 6. The 200 doe breeding herd and fawn raising operations require 35 acres of hybrid bermudagrass. Twenty acres are dedicated to the doe herd and 15 to raising fawns following weaning. About 29 acres (14 for the breeding herd and 15 for growing fawns) are overseeded with ryegrass for winter forage. Seven of the 14 acres are planted with cowpeas to supplement yearlings and other breeding stock in the summer. About one acre is allotted to working facilities and holding pens.
- 7. Supplemental feed for does and fawns during the period that winter pasture is not yet available consists of good quality hay fed free-choice and a supplemental ration of 50% rabbit pellets and 50% cracked corn. The supplemental ration is fed so deer consume approximately 3% of their body weight. Deer may consume very little hay during this period of supplementation. However, it should remain available at all times to supply sufficient roughage to maintain good quality rumen activity.
- 8. Budgets indicate that the breeding enterprise by itself is not expected to be profitable. It must be combined with a second value-added phase, such as stocker or growing, that carries animals to heavier weights for slaughter or breeding stock which results in higher values.

- 9. Fawns are weaned in October and enter the stocker or growing phase which ends about the first of July the following year. Liveweights at the end of this phase are expected to average 115 lbs for bucks and 80 lbs for does. At the end of the growing phase, bucks can be marketed either for slaughter, as replacement breeder stock or as shooter/hunting stock. Only about 25% of the bucks are expected to sell as herd sires or shooters. Initially, owners might expect to sell all does for breeding stock. However, as the supply of breeding age does begins to exceed the demand, markets for these animals will become thin and prices received by producers will suffer. It is important to notice that higher prices expected for breeding stock greatly enhance the projected profitability of this operation. It probably should be anticipated that the demand for breeders eventually will diminish to the point where about 75% of does likely will sell for slaughter. Then the problem will become one of looking for a market that will accept the lighter weight carcasses.
- 10. Stocker animals require 15 acres of winter pasture along with hay and supplemental feed to reach desired weights. Animals sold as breeders require additional expenses for marketing functions such as promotion, transportation and special private treaty selling arrangements.

The example budgets are designed to evaluate the breeding herd and stocker enterprises separately. However, since the breeding herd by itself is unprofitable, the two are combined in the following:

	Summary Budget - 200 Doe Herd
Revenue:	
Breeders-culls	\$3,400
Stockers-breeders	\$32,400
Stockers-slaughte	r \$7,843
Total revenue:	\$43,643
Expenses:	
Breeding herd	\$14,783
Stocker operations	
Depreciation	\$8,740
Total expenses:	\$33,214
Revenue less expenses:	\$10,429
Return on total expenses	31%

This is clearly a profitable operation at the assumed levels of production, management and prices. How long it remains profitable depends largely on how long management is successful at sustaining the sale of breeding stock and shooters rather than slaughter animals.

Total production costs (adjusted for cull revenue) per finished animal produced with assumptions associated with the 200 doe herd is \$182. Slaughter bucks currently are worth \$127 while slaughter does are worth \$61. This means that considerable restructuring of costs is necessary if most stockers are sold for slaughter.

Understandably, some producers may consider starting a much smaller operation than one with 200 does. Thus, a summary of a 30 doe herd (a one buck herd) is presented and illustrates that there are economies of size associated with non-native deer production. These economies result from utilizing the same equipment component to produce more animals. The main fixed costs that change are associated with land and fencing. Results indicate that the profitability of this smaller operation depends to even a greater extent on a producer's ability to sell breeders/shooters as the cost of production (adjusted for cull revenue) per fawn finished is \$254.

#### Summary Budget - 30 Doe Herd

Revenue:	
Breeders-culls	\$ 450
Stockers-breeders	\$5,000
Stockers-slaughter	\$1,139
Total revenue:	\$6,589
Expenses:	
Breeding herd	\$2,355
Stocker operations	\$1,501
Depreciation	\$2,940
Total expenses:	\$6,796
Revenue less expenses:	-\$ 207
Return on total expenses	-3.0%

Farming of non-native deer is not dissimilar from other agricultural enterprises in terms of its management requirements for profitability. Results of developing budgets indicate that successful producers must pay close attention to animal and forage production, to forage and feed utilization, to keeping costs as low as possible and to adding as much value to animals as possible before they are marketed.

			duction - Spe nual Projecte	cies: d Costs and R		allow rns			09/01/99
Projections for Planning Only: Up	odate with I	ndividu	al Farm/Ranch	Information	Ctu	1113			09/01/98
ASSUMPTIONS									Your ranch:
Exposed does:			200	(hd)					
Weight of does:			90					-	
Number of breeding bucks:			7	, ,				_	
Total acres:			20					_	
Doe replacement rate:				(ac) (enter percents	200	docimals)		-	
Buck replacement rate:			50.0%		a5 (	decimais)		_	
Doe loss/cull (after exposed	4).		2.0%					_	
Fawning loss (thru birth):	4).		10.0%					_	
Fawn death loss (birth to we	aan).					0.40	,	_	
Percent of fawns born fema			50.0%	Weaning pct	:	84%	D	_	
Breeding doe cost:	ic.							_	
Breeding buck cost:				(per hd)				_	
Breeding back cost:  Breeding herd interest rate:			\$800	1				_	
Oper. expenses int. rate:				(actual/opportu				_	
Weaned doe price:				(actual/opportu	nity r	ate)		_	
Weaned buck price:				(per hd)					
Cull doe price:				(per hd)				_	
Cull buck price:			\$100.00	'					
cuil buck price;			\$400.00	(per hd)					
10.2				Loop longth		Δ			
	escription	\$	Cost	Loan length (years)	Re	Annual epair Cost	Percent Used for Deer		
ltem De Pickup 3	escription 8/4 ton	\$	-	(years)	Re \$	epair Cost -	for Deer	\$	-
ltem De Pickup 3 Pickup 1	escription 8/4 ton /2 ton	\$	5,000.00	(years) 7 5	\$ \$	- 1,000	for Deer 10% 10%	\$	200.00
ltem De Pickup 3 Pickup 1 Trailer	escription 8/4 ton	\$ \$	-	(years) 7 5 10	\$ \$ \$	epair Cost -	for Deer 10% 10% 10%	\$	200.00 35.00
Pickup 3 Pickup 1 Trailer Trailer	escription 8/4 ton /2 ton	\$ \$ \$	5,000.00 2,500.00	(years) 7 5 10 10	\$ \$ \$ \$	1,000 100	for Deer 10% 10% 10% 10%	\$ \$	200.00 35.00
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer	escription 8/4 ton /2 ton	\$ \$ \$	5,000.00	(years) 7 5 10 10 10	\$ \$ \$ \$ \$	- 1,000	for Deer 10% 10% 10% 10% 10%	\$ \$ \$ \$	200.00 35.00
ltem De Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck	escription 8/4 ton /2 ton 16 ft	\$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00	(years) 7 5 10 10 10 10	\$ \$ \$ \$ \$	1,000 100 - 100	for Deer 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$	200.00 35.00 - 25.00
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 2	escription 8/4 ton /2 ton 16 ft	\$ \$ \$ \$ \$	5,000.00 2,500.00	(years)  7 5 10 10 10 10 10	\$ \$ \$ \$ \$ \$	1,000 100	for Deer  10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$ \$	200.00 35.00
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 1	escription 8/4 ton /2 ton 16 ft	\$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00	(years)  7 5 10 10 10 10 10 10 10	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 100 - 100 - 700	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 170.00
Item De Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 16 B' Perimeter fence	escription 3/4 ton /2 ton 16 ft 40 hp 00 hp	\$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00	(years)  7 5 10 10 10 10 10 10 20	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 100 - 100 - 700 - 100	for Deer  10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 - 170.00
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 1 B' Perimeter fence Length 660	escription 8/4 ton /2 ton 16 ft	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320	(years)  7 5 10 10 10 10 10 20 Cost/foot	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 100 - 100 - 700 - 100 2.25	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 170.00 545.50
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 16 B' Perimeter fence Length 660 B' Paddock fence	escription 8/4 ton /2 ton 16 ft 40 hp 00 hp	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 100 - 100 - 700 - 100	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 170.00
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 16 B' Perimeter fence Length 660 B' Paddock fence 1980 feet	escription 8/4 ton /2 ton 16 ft 40 hp 00 hp Width at	\$ \$ \$ \$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 100 - 100 - 700 - 100 2.25	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 170.00 545.50
Pickup 3 Pickup 1 Trailer Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 16 B' Perimeter fence Length 660 6' Paddock fence 1980 feet	escription 3/4 ton /2 ton 16 ft 40 hp 00 hp Width at	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 100 - 100 - 700 - 100 2.25 50	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 100%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 - 170.00 - 545.50 314.00
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Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 10 B' Perimeter fence Length 660 B' Paddock fence 1980 feet Barn Working facilities/gates Crush	escription 8/4 ton /2 ton 16 ft 40 hp 00 hp Width at	\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 100 - 100 - 700 - 100 2.25 50	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 100%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 - 170.00 - 545.50 314.00
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 16 S' Perimeter fence Length 660 S' Paddock fence 1980 feet Barn Working facilities/gates Crush Office/shop	escription 8/4 ton /2 ton 16 ft 40 hp 00 hp Width at	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15 10	\$	1,000 100 - 100 - 700 - 100 2.25 50	for Deer  10% 10% 10% 10% 10% 10% 10% 100% 100%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 25.00 170.00 545.50 314.00
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Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 16 B' Perimeter fence Length 660 B' Paddock fence 1980 feet	escription 8/4 ton /2 ton 16 ft 40 hp 00 hp Width at	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15 10 5	\$	1,000 100 - 100 - 700 - 100 2.25 50	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 100%  100% 100% 100% 100% 100%	\$	200.00 35.00 25.00 170.00 545.50 314.00 450.00 200.00
Pickup 3 Pickup 1 Trailer Trailer Flatbed trailer Dump truck Tractor 4 Tractor 16 S' Perimeter fence Length 660 S' Paddock fence 1980 feet Barn Working facilities/gates Crush Office/shop Shades Purchased breeding does Purchased breeding bucks	escription 8/4 ton /2 ton 16 ft 40 hp 00 hp Width at	\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00 1,500.00 - 40,000.00 5,600.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15 10 5	\$	1,000 100 - 100 - 700 - 100 2.25 50	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 100%  100% 100% 100% 100% 100%	\$	200.00 35.00 25.00 170.00 545.50 314.00 450.00 200.00
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REVENUE				Per exposed		
Weight (lbs)	Number (h	nd)		doe	Total herd	Your ranch:
Weaned bucks: 50		84		\$25	\$5,040	
Weaned does: 45		84		\$25	\$5,040	
Cull doe revenue: 90		20		\$10	\$2,000	
Cull buck revenue: 200		3.5		\$7	\$1,400	
Other:				\$0	\$0	
Total revenue:				\$67	\$13,480	16.4.
EXPENSES				Per		
		units:	unit cost:	exposed doe	Total herd	Your ranch
Coastal		20	\$87.20	\$9	\$1,744	
Interseed ryegrass		14	\$112.98	\$8	\$1,582	(6.1,
Prepared seedbed rye-ryegrass		0	\$162.65	\$0	\$0	1 Light
Summer annual grazing: cowpeas		7	\$35.00	\$1	\$245	1915
Land lease/opportunity cost		20	\$10.00	\$1	\$200	12 (0)
Hay (90 days) (rolls)		10.00	\$40.00	\$2	\$400	1850
Supplemental feed 3% of b	oody weigh	nt for		90	days	N Lo
pellets	2	24300	\$0.100	\$12	\$2,430	
corn	2	4300	\$0.075	\$9	\$1,823	ARANA
Salt & mineral (\$/doe)			\$3.00	\$3	\$600	HILD.
Vet & medicine (\$/doe)			\$5.00	\$5	\$1,000	1997 - 2
Contract labor/management (\$/doe)			\$5.00	\$5	\$1,000	
Fuel, lube, repairs (\$)			\$100.00	\$1	\$100	h E
Overhead (\$/doe)			\$2.00	\$2	\$400	
Other (\$/doe)			\$0.00	\$0	\$0	
Other (\$/doe)			\$0.00	\$0	\$0	Marie .
Breeding stock ownership interest				\$11	\$2,280	3804
Interest on operating funds			8 F <u>a</u>	\$5	\$979	Te II
Total expenses:				\$164	\$14,783	
Depreciation				\$44	\$8,740	Tribria
Total revenue minus total expenses			2 9/1	(\$140)	(\$10,042)	april 1
			E 907	MARIE TO THE STATE OF THE STATE		T M TI
Total costs minus non-fawn revenue:				\$101	\$20,122 _	
Total cost per fawn weaned (adjusted by						
cull sales and other revenue)					\$120 _	1
					Caucha de I	Turki

## EXOTIC DEER STOCKER PRODUCTION - Species: Fallow

Projected Costs and Returns

09/01/99

Projections i	or Planning Purposes	Only: Upd	ate with Your	Ranch Info			03/01/33
	ASSUMPTIONS	отпу: ора	ate with rour	Ranch inio.			
O TO TENT	1000111110110						Your ranch:
Bucks Does	onto pasture:	D	84 84	(head) (head)			
In date:	Month	Day	Year				
Out date:	10 7	1	96 97				
		4,5 <u>(</u>	Bucks	Does			
Average in		0 - 1	50	45	(lbs)		
Net purcha			\$60.00	\$60.00			
Average da			0.24	0.13	(lbs; deads-ir	average)	
Stocker dea			2	2	(head)		
Slaughter p			\$2.00	\$1.50	(per lb carcas	ss wgt.)	
Dressing pe			55%	55%		0 ,	
Breeder pri			\$800.00	\$200.00			
	nterest rate:		5.0%	5.0%	(actual/opport	tunity rate)	
Oper. exper	nses int. rate:		8.5%		(actual/opport		
In pay-weig			4200	3780	(lbs)		
	razing period:		273	273	(days)		
	days on pasture:		22932	22932	(hd-days)		
Net gain pe			65	35	(lbs)		
Out pay-wei			9660	6720	(lbs)		
Average out	t-weight:		115	80	(lbs)		
REVENUE					Per	Total	
Bucks brook	ding/hunting	20			stocker	herd	Your ranch:
Bucks-slaug	unig/nunung	20			\$800	\$16,000	
Does-breedi		62			\$127	\$7,843	
Does-slaugh		82			\$200	\$16,400	
Cull sales:	iter.	0			\$66	\$0	
Other sales:						\$0	
outer sales.					_	\$0	
Total revenu	e:				_	\$40,243	

EXPENSES		unit	Per	Total	
	units	cost	stocker	herd	Your ranch:
Stockers:	164	0018 810	\$61	\$10,080	
Prepared seedbed ryegrass pa	sture 15	\$162.65	\$15	\$2,440	
Summer pasture	0	\$87.20	\$0	\$0	
Supplemental protein	0	\$82.00	\$0	\$0	
Land lease/opportunity cost	15	\$10.00	\$1	\$150	1 -
Hay (1 roll per 20 head)	8	\$30.00	\$1	\$240	
Other feed	16.44	\$225.00	\$23	\$3,700	3.27
	weight for	90	days	MILE X	7
Salt & mineral (\$/head)		\$1.00	\$1	\$164	
Marketing - slaughter	62	\$2.00	\$1	\$124	D 79
Marketing - breeders	102	\$10.00	\$6	\$1,020	
Vet & medicine (\$/head)		\$3.00	\$3	\$492	
Contract labor/management	0	\$8.00	\$0	\$0	
Fuel, lube, repairs (\$)		\$100.00	\$1	\$100	917
Overhead (\$/head)		\$2.00	\$2	\$328	41
Other		\$0.00	\$0	\$0	- H
Other		\$0.00	\$0	\$0 -	
Other		\$0.00	\$0	\$0	16/2
Other		\$0.00	\$0	\$0	
Stocker ownership interest	\$10,080	5.0%	\$2	\$377	7/7
Interest on operating funds	\$8,757	8.5%	\$3	\$557	Sign
Total Expenses:			\$121	\$19,771 _	7.0
Total revenue minus total expen			\$125	\$20,472	
Total expenses minus other reve	enue:		_	\$19,771	
Total expense per lb of deer solo	d (adjusted)			\$1.21	
Total cost of gain (adjusted) Summary:				\$1.11	77 117
Total revenue (breeding/stock				\$43,643	
Total expense (breeding/stoc				\$33,213	
Revenue less expense (breed	ding/stocker)			\$10,430	Ngue -
Cash flow (breeding/stocker)				\$19,169	
Return on capital (breeding & sto	ocker):	18		31.4%	74

	Breeding H	lerd A	roduction - Spe nnual Projecte	d Costs and F	Retu	allow rns			09/01/99
Projections for Planning (	Only: Update with	n Indivi	dual Farm/Ranch	Information					00/01/00
ASSUMPTIONS									Your ranch:
Exposed does:			30	(hd)					
Weight of does:	-		90	, , , ,				_	
Number of breeding b	ucks:		1	A comment of the comm				_	
Total acres:			3					_	
Doe replacement rate	:			6 (enter percents	sas	decimals)		_	
Buck replacement rat			50.0%		5 45	decimais)		-	
Doe loss/cull (after ex			2.0%					_	
Fawning loss (thru bir	th):		10.0%					-	
Fawn death loss (birth				Weaning pc	t·	84%		_	
Percent of fawns born	female:		50.0%			0170		_	
Breeding doe cost:				(per hd)				_	
Breeding buck cost:				(per hd)				_	
Breeding herd interest	t rate:			(actual/opportu	nity i	rate)		_	
Oper. expenses int. ra	ite:			(actual/opportu				_	
Weaned doe price:				(per hd)	,			_	
Weaned buck price:				(per hd)				_	
Cull doe price:			\$100.00					_	
Cull buck price:			\$300.00	(per hd)					
Estimated Investment	Costs	-						_	
Estimated Investment	Costs	112		Loan length		Annual	Percent Used		
tem	Description		Cost	Loan length (years)		Annual epair Cost	Percent Used for Deer		Depreciation
tem Pickup	Description 3/4 ton	\$	-						Depreciation -
tem Pickup Pickup	Description 3/4 ton 1/2 ton	\$	5,000.00	(years)	Re		for Deer	\$	Depreciation - 200.00
tem Pickup Pickup Trailer	Description 3/4 ton	\$ \$	-	(years)	Re \$	epair Cost -	for Deer 10%	\$	-
tem Pickup Pickup Trailer Trailer	Description 3/4 ton 1/2 ton	\$ \$ \$	5,000.00 2,500.00	(years) 7 5	\$ \$	epair Cost - 1,000	for Deer 10% 10%	\$ \$ \$	200.00
tem Pickup Pickup Trailer Trailer Flatbed trailer	Description 3/4 ton 1/2 ton	\$ \$ \$	5,000.00	(years) 7 5 10	\$ \$ \$	- 1,000 100	for Deer 10% 10% 10%	\$ \$ \$	200.00
tem Pickup Pickup Trailer Frailer Flatbed trailer Dump truck	Description 3/4 ton 1/2 ton 16 ft	\$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00	(years) 7 5 10 10	\$ \$ \$ \$	- 1,000 100	for Deer 10% 10% 10% 10%	\$ \$ \$	200.00 35.00
tem Pickup Pickup Trailer Trailer Elatbed trailer Dump truck Tractor	Description 3/4 ton 1/2 ton 16 ft 40 hp	\$ \$ \$ \$ \$ \$ \$	5,000.00 2,500.00	(years) 7 5 10 10 10 10 10	\$ \$ \$ \$ \$	- 1,000 100	for Deer 10% 10% 10% 10% 10%	\$ \$ \$ \$	200.00 35.00
tem Pickup Pickup Trailer Trailer Elatbed trailer Dump truck Tractor	Description 3/4 ton 1/2 ton 16 ft	\$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00	(years) 7 5 10 10 10 10	\$ \$ \$ \$ \$	- 1,000 100 - 100	for Deer 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00
tem Pickup Pickup Trailer Trailer Flatbed trailer Dump truck Tractor S' Perimeter fence	Description 3/4 ton 1/2 ton 16 ft 40 hp 100 hp	\$ \$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00	(years)  7 5 10 10 10 10 10 10 20	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1,000 100 - 100	for Deer 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00
tem Pickup Pickup Trailer Trailer Flatbed trailer Dump truck Tractor Tractor S Perimeter fence Length 660	Description 3/4 ton 1/2 ton 16 ft 40 hp 100 hp	\$ \$ \$ \$ \$ \$ \$ \$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320	(years)  7 5 10 10 10 10 10 10 10	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1,000 100 - 100 - 700	for Deer  10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 - 170.00
tem Pickup Pickup Trailer Trailer Flatbed trailer Dump truck Tractor Tractor B Perimeter fence Length 660	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp	\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00	(years)  7 5 10 10 10 10 10 10 20	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1,000 100 - 100 - 700 - 100	for Deer  10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 - 170.00 - 545.50
tem Pickup Pickup Trailer Trailer Flatbed trailer Dump truck Tractor Tractor S' Perimeter fence Length 660	Description 3/4 ton 1/2 ton 16 ft 40 hp 100 hp	*****	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1,000 100 - 100 - 700 - 100 2.25	for Deer  10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 - 170.00
tem Pickup Pickup Trailer Trailer Flatbed trailer Dump truck Tractor S' Perimeter fence Length 660 S' Paddock fence	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width	\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1,000 100 - 100 - 700 - 100 2.25	for Deer  10% 10% 10% 10% 10% 10% 10% 10%	\$ \$ \$ \$ \$ \$ \$ \$	200.00 35.00 - 25.00 - 170.00 - 545.50
tem Pickup Pickup Trailer Trailer Flatbed trailer Dump truck Tractor Tractor S Perimeter fence Length 660 S Paddock fence 1980 Barn	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width	\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1,000 100 - 100 - 700 - 100 2.25	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 10%	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	200.00 35.00 - 25.00 - 170.00 - 545.50
etem Pickup Pickup Trailer Flatbed trailer Dump truck Fractor Fractor Fractor Compare tence Length 660 Compare tence 1980 Barn Vorking facilities/gates	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1,000 - 100 - 100 - 700 - 100 2.25 50	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 100%	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	200.00 35.00 25.00 170.00 545.50 314.00
eltem Pickup Pickup Trailer Trailer Flatbed trailer Dump truck Tractor Tractor S' Perimeter fence Length 660 S' Paddock fence 1980 Barn Vorking facilities/gates Crush	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width	****	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20	\$	- 100 - 100 - 100 - 700 - 100 2.25 - 50	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 100%	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	200.00 35.00 25.00 170.00 545.50 314.00
tem Pickup Pickup Trailer Trailer Flatbed trailer Oump truck Tractor S' Perimeter fence Length 660 S' Paddock fence 1980 Barn Vorking facilities/gates Office/shop	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width feet at	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00 1,500.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15 10 5	\$	- 100 - 100 - 100 - 700 - 100 2.25 - 50	for Deer  10% 10% 10% 10% 10% 10% 10% 100% 100%	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	200.00 35.00 25.00 170.00 545.50 314.00
Pickup Pickup Pickup Trailer Frailer Flatbed trailer Dump truck Fractor Fractor B Perimeter fence Length 660 B Paddock fence 1980 Barn Vorking facilities/gates Crush Office/shop Hades	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width  feet at	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00 1,500.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15 10 5 10	\$	- 100 - 100 - 100 - 700 - 100 2.25 - 50	for Deer  10% 10% 10% 10% 10% 10% 10% 10% 100% 100%	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	35.00 - 25.00 170.00 - 545.50 314.00 - 450.00
tem Pickup Pickup Trailer Trailer Flatbed trailer Oump truck Tractor S' Perimeter fence Length 660 S' Paddock fence 1980 Barn Vorking facilities/gates Office/shop	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width  feet at	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 - 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00 1,500.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15 10 5	\$	- 100 - 100 - 100 - 700 - 100 2.25 - 50	for Deer  10% 10% 10% 10% 10% 10% 10% 100%  100%	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	200.00 35.00 25.00 170.00 545.50 314.00 450.00 200.00
Pickup Pickup Pickup Trailer Frailer Flatbed trailer Dump truck Fractor Fractor B Perimeter fence Length 660 B Paddock fence 1980 Barn Vorking facilities/gates Crush Office/shop Hades	Description 3/4 ton 1/2 ton 16 ft  40 hp 100 hp  Width  feet at	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	5,000.00 2,500.00 1,500.00 - 10,000.00 - 8,910.00 1320 3,960.00 2.00 - 5,000.00 1,500.00	(years)  7 5 10 10 10 10 10 20 Cost/foot 15 per foot 20 20 15 10 5 10	\$	- 100 - 100 - 100 - 700 - 100 2.25 - 50	10% 10% 10% 10% 10% 10% 10% 10% 100% 10	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	200.00 35.00 25.00 170.00 545.50 314.00 450.00 200.00

REVENUE					Per exposed		
Weight (lbs	) Nu	ımber (	hd)		doe	Total herd	Your ranch:
No.							
Weaned bucks: 50			12		\$24	\$720	
Weaned does: 45			13		\$26	\$780	
Cull doe revenue: 90			3		\$10	\$300	- Pa
Cull buck revenue: 200			0.5		\$5	\$150	
Other:					\$0	\$0	77 -1
Tabala							
Total revenue:					\$65	\$1,950	<u></u>
EVDENCES						25,426,10	40-
<u>EXPENSES</u>					Per		
			units:	unit cost:	exposed doe	Total herd	Your ranch
Coastal			3	\$87.20	\$9	\$262	
Interseed ryegrass			2.5	\$112.98	\$9	\$282	
Prepared seedbed annual ryegrass			0	\$162.65	\$0	\$0	
Summer annual grazing: cowpeas			1	\$35.00	\$1	\$35	
Land lease/opportunity cost			3	\$10.00	\$1	\$30	
Hay (90 days) (rolls)			1.50	\$40.00	\$2	\$60	r ster
Supplemental feed 3%	of body	weigl	nt for			lays	
pellets		00.00	3645	\$0.100	\$12	\$365	
corn			3645	\$0.075	\$9	\$273	
Salt & mineral (\$/doe)				\$3.00	\$3	\$90	
Vet & medicine (\$/doe)				\$5.00	\$5	\$150	
Contract labor/management (\$/doe)				\$5.00	\$5	\$150	
Fuel, lube, repairs (\$)				\$100.00	\$3	\$100	151
Overhead (\$/doe)				\$2.00	\$2	\$60	
Other (\$/doe)				\$0.00	\$0	\$0	
Other (\$/doe)				\$0.00	\$0	\$0	25.00
Breeding stock ownership interest					\$11	\$340	821
Interest on operating funds				100	\$5	\$158	La
Total expenses:					\$168	\$2,355	
Depreciation					\$98	\$2,940	
Total revenue minus total expenses				8 (9)	(\$201)	(\$3,344)	54.3
Total costs minus non-fawn revenue:					\$161	\$4,844	
Total cost per fawn weaned (adjusted	l by					s. Sanda ale	. 1
cull sales and other revenue)	ladi en					\$194	

### EXOTIC DEER STOCKER PRODUCTION - Species: Fallow

Projected Costs and Returns 09/01/99 Projections for Planning Purposes Only: Update with Your Ranch Info. SYSTEM ASSUMPTIONS Your ranch: **Bucks** onto pasture: 12 (head) Does onto pasture: 13 (head) Month Day Year In date: 10 1 96 Out date: 7 1 97 **Bucks** Does Average in-weight: 50 45 (lbs) Net purchase price: \$60.00 \$60.00 (per hd) Average daily gain: 0.24 0.13 (lbs; deads-in average) Stocker death loss: 0 0 (head) Slaughter price: \$2.00 \$1.50 (per lb carcass wgt.) Dressing percent: 55% 55% Breeder price: \$800.00 \$200.00 Livestock interest rate: 5.0% 5.0% (actual/opportunity rate) Oper. expenses int. rate: 8.5% 8.5% (actual/opportunity rate) In pay-weight: 600 585 (lbs) Length of grazing period: 273 273 (days) Total head-days on pasture: 3276 3549 (hd-days) Net gain per head: 65 35 (lbs) Out pay-weight: 1380 1040 (lbs) Average out-weight: 115 80 (lbs) REVENUE Per Total stocker herd Your ranch: Bucks-breeding/hunting 3 \$800 \$2,400 Bucks-slaughter: 9 \$127 \$1,139 Does-breeding: 13 \$200 \$2,600 Does-slaughter: 0 \$66 \$0 Cull sales: \$0 Other sales: \$0

\$6,139

Total revenue:

EXPENSES		unit	Per	Total	
_	units	cost	stocker	herd	Your ranch:
Stockers:	25	PER STOC	\$60	\$1,500	
Prepared seedbed ryegrass pasture	2	\$162.65	\$13	\$325	
Summer pasture	0	\$87.20	\$0	\$0	4517
Supplemental protein	0	\$82.00	\$0	\$0	
Land lease/opportunity cost	2	\$10.00	\$1	\$20	7
Hay (1 roll per 20 head)	1.25	\$30.00	\$2	\$38	
Other feed	2.43	\$225.00	\$22	\$548	
3% of body weigh	ht for	90	days	ativro 30	ri.
Salt & mineral (\$/head)		\$1.00	\$1	\$25	
Marketing - slaughter	9	\$2.00	\$1	\$18	3 12
Marketing - breeders	16	\$10.00	\$6	\$160	
Vet & medicine (\$/head)		\$3.00	\$3	\$75	
Contract labor/management	0	\$8.00	\$0	\$0	
Fuel, lube, repairs (\$)		\$100.00	\$4	\$100	91.71
Overhead (\$/head)		\$2.00	\$2	\$50	10 T
Other		\$0.00	\$0	\$0	94/2
Other		\$0.00	\$0	\$0	
Other		\$0.00	\$0	\$0 -	
Other		\$0.00	\$0	\$0	
Stocker ownership interest	\$1,500	5.0%	\$2	\$56	
Interest on operating funds	\$1,358	8.5%	\$3	\$86	avii.
Total Expenses:			\$120	\$3,001	
			\$120	\$3,001	
Total revenue minus total expenses			\$126	\$3,138	
Total expenses minus other revenue:			7	\$3,001	17:17:11
Total expense per lb of deer sold (adju	sted)			\$1.24	112
Total cost of gain (adjusted)				\$1.17	35A-
Summary:				_	
Total revenue (breeding/stocker)				\$6,589	1.3%
Total expense (breeding/stocker)				\$6,795	
Revenue less expense (breeding/st	ocker)			(\$206)	bid
Cash flow (breeding/stocker)				\$2,733	100
Return on capital (breeding & stocker):		1.3		-3.0%	990