



United States Department of Agriculture
National Institute of Food and Agriculture

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Note: This template was prepared for general information purposes only and is intended to provide a starting point for Farmers as they develop Budgets for use in their business. Persons relying on such information do so entirely at their own risk, and this template should serve as a guiding tool. This project is supported by the Beginning Farmer and Rancher Development Program competitive grant no. 2018-70017-28550 of the USDA National Institute of Food and Agriculture. For educational purposes only.

Download spreadsheet: https://solargrazing2026.mystagingwebsite.com/wp-content/uploads/2021/07/Solar-Sheep-Budget_FINAL.xlsx

Sheep Grazing Solar Farm Budget										
			Adapted from Virgina Cooperative Extension Publicaton 446-048							
175%	LAMB CROP		100	EWES		10%	Cull Rate			
5%	LAMB Death Loss		3	RAMS						
ITEM	HEAD	QUANTITY	UNIT	PRICE		\$/head	TOTAL	Your Farm		
GROSS RECEIPTS										
Lambs	166	0.70	Cwt	\$165.00		\$ 115.50	\$19,201.88			
Cull Ewes	10	1.40	Cwt	\$75.00		\$ 105.00	\$1,050.00			
Cull Ram	1	1.80	Cwt	\$75.00		\$ 135.00	\$135.00			
Solar Grazing Fees		25.00	Acre	\$200.00		\$5,000.00	\$ 5,000.00			
TOTAL GROSS RECEIPTS					Per Ewe	\$253.87	\$25,386.88			
VARIABLE COSTS										
Pasture (cost-rent)		25	acre	\$30.00		\$ 7.50	\$ 750.00			
Pasture (Maintenance)		25	acre	\$55.00		\$ 13.75	\$ 1,375.00			
Feed		90	lbs/ewe	\$0.10		\$ 9.00	\$900.00			
Salt & Mineral		25	lbs/ewe	\$0.40		\$ 10.00	\$1,000.00			
Vet & Medicine		100	Head	\$2.00		\$2.00	\$200.00			
Supplies		100	Head	\$7.00		\$7.00	\$700.00			
Replacement Ram		1	Head	\$300.00		\$300.00	\$300.00			
Building & Fence Repairs		100	Head	\$3.00		\$3.00	\$300.00			
Utilities		100	Head	\$1.00		\$1.00	\$100.00			
Labor		2	Hours	\$20.00		\$ 40.00	\$4,000.00			
Solar grazing labor			Hours			\$ 25.25	\$2,524.50			
Solar mowing/trimming			\$/acre/year			\$ 25.00	\$2,500.00			
Solar spraying			\$/acre/year			\$ 1.20	\$120.00			
Solar fertilizer/lime			\$/acre/year			\$ -	\$0.00			
Solar seed			\$/acre/year			\$ -	\$0.00			
Solar additional insurance			\$/year			\$ 3.00	\$300.00			
Solar mileage			\$/year			\$ 8.39	\$ 839.26			
Operating Interest			Dollars	6.00%			\$954.53			
TOTAL VARIABLE COSTS					Per Ewe	\$168.63	\$16,863.28			
PROJECTED RETURN					Per Ewe	\$85.24	\$8,523.59			

RT distance (farm to S	13.6			Mowing costs			Spraying Costs	
mileage cost per mile	\$0.55			# times mowed per year	2		#times per year	2
mileage cost per trip	\$7.48			Cost per A to mow	\$50.00		time per acre	0.1
Mileage cost	\$ 839.26			cost per mowing	\$1,250.00		time per spraying	2.5
# grazing weeks/ year	37.4						labor rate	\$20.00
# grazing days/year	261.8			annual mowing costs	\$2,500.00		labor per spraying	\$50.00
trips per week	3						chem costs per spray	\$10.00
onsite labor per visit	1.5							
labor rate	\$15.00						total cost per spray	\$60.00
Solar labor	\$2,524.50						annual spraying costs	\$120.00
				Fertilizer costs (bagged 10-10-10)				
				# Fertilizer applications per yr	0			
number acres	25			Fert cost per lb	\$0.28			
grazable acres	23			Fert rate (lb/A)	100			
				Fert costs per A per spreading	\$28.00			
paymnt/ A	\$125.00			fert cost per spreading	\$700.00			
total annual payment	\$3,125.00			Annual fert costs	\$0.00			
				Lime Costs (pelleted lime)				
				# Lime applications per yr	0			
				lime cost per lb	\$0.08			
				Lime rate (lb/A)	500			
				Lime Costs per A	\$40.00			
				Lime costs per spreading	\$1,000.00			
				Annual Lime costs	\$0.00			

Sheep Grazing Solar Farm Budget										
Adapted from Virginia Cooperative Extension Publicaton 446-048										
	LAMB CROP		EWES			Cull Rate				
	LAMB Death Loss		RAMS							
ITEM	HEAD	QUANTITY	UNIT	PRICE		\$/head	TOTAL	Your Farm		
GROSS RECEIPTS										
Lambs			Cwt			\$ -	\$0.00			
Cull Ewes			Cwt			\$ -	\$0.00			
Cull Ram			Cwt			\$ -	\$0.00			
Solar Grazing Fees			Acre			\$ -	\$ -			
TOTAL GROSS RECEIPTS				Per Ewe			\$0.00			
VARIABLE COSTS										
Pasture (cost-rent)			acre				\$ -			
Pasture (Maintenance)			acre				\$ -			
Feed			lbs/ewe			\$ -	\$0.00			
Salt & Mineral			lbs/ewe			\$ -	\$0.00			
Vet & Medicine		0	Head			\$0.00	\$0.00			
Supplies		0	Head			\$0.00	\$0.00			
Replacement Ram			Head			\$0.00	\$0.00			
Building & Fence Repairs		0	Head			\$0.00	\$0.00			
Utilities		0	Head			\$0.00	\$0.00			
Labor			Hours			\$ -	\$0.00			
Solar grazing labor			Hours				\$ -			
Solar mowing/trimming			\$/acre/year				\$0.00			
Solar spraying			\$/acre/year				\$0.00			
Solar fertilizer/lime			\$/acre/year				\$0.00			
Solar seed			\$/acre/year				\$0.00			
Solar additional insurance			\$/year				\$300.00			
Solar mileage			\$/year				\$ -			
Operating Interest			Dollars	%						
TOTAL VARIABLE COSTS				Per Ewe						
PROJECTED RETURN				Per Ewe						

RT distance (farm to SF)				<u>Mowing costs</u>			<u>Spraying Costs</u>	
mileage cost per mile				# times mowed per year			# times per year	
mileage cost per trip	\$0.00			cost per acre to mow			time per acre	
Mileage cost	\$ -			cost per mowing	\$0.00		time per spraying	
# grazing weeks/ year							labor rate	
# grazing days/year	0			annual mowing costs	\$0.00		labor per spraying	
trips per week							chem costs per spray	
onsite labor per visit								
labor rate							total cost per spray	\$0.00
solar labor	\$ -						annual spraying costs	\$0.00
				<u>Fertilizer costs (bagged 10-10-10)</u>				
				# Fertilizer applications per year	0			
number acres				Fert cost per lb	\$0.28			
acres accessible to grazing				Fert rate (lb/acre)	100			
				Fert costs per acre per spread	\$28.00			
payment per acre				Fert cost per spreading	\$0.00			
total annual payment	\$0.00			Annual fert costs	\$0.00			
				<u>Lime Costs (pelleted lime)</u>				
				# Lime applications per yr				
				Lime cost per lb				
				Lime rate (lb/A)				
				Lime costs per acre	\$0.00			
				Lime costs per spreading	\$0.00			
				Annual Lime costs	\$0.00			