

Start up Equipment & Costs for Solar Grazing				
Item	Work Area	Cost- High	Cost - Low	Notes
Rotational Grazing, Solar site				
				100 acres x 3 here. Assuming some electronet needed in addition to what I have below, I'll assume 20 lenghs of net and 3 solar /battery chargers, all Premier 1 equipment for this. So 20x3=60 = \$7500, plus \$800 and kit PRS 200x \$950 x3 =. for the low estimate I'm positive you can use cheaper chargers, for one. so I'll bring that assumption to \$500.
Portable fencing	Rotational Grazing, Solar site	\$10,350	\$9,000	
Energizers	Rotational Grazing, Solar site	\$2,850	\$1,335	Gallagher 110 V energizers for low, 3 battery/solar/multi for high. Plus fence tester, signage, etc.
Water cubes	Rotational Grazing, Solar site	\$900	\$450	set up water in each of the 3 sections (per 100 acres). Plus plumbing fittings & float values for each.
Water troughs	Rotational Grazing, Solar site	\$2,970	\$900	rubbermaid stock troughs for high, cut up barrels for low. Assumes 3 sections per 100 acres.assumes 2 troughs per section, 100 gallon-ish tanks. includes float values, hose, plumbing sections
ATV	Rotational Grazing, Solar site	\$6,200	\$3,500	high is a new Honda rancher ATV, low is a used version of the same
Wagons	Rotational Grazing, Solar site	\$6,400	\$1,000	pull water wagons from section to section. source craigslist
Well drilling & installation	Rotational Grazing, Solar site	\$30,000	\$20,000	3 wells, assuming reasonable success and workable water table
Home Farm Site Infrastructure				
sheep handling facility setup / pens	Home Farm Site Infrastructure	\$16,445	\$16,445	DS equipment, new W system https://www.dslivestock.biz/products/category/handling-systems-sheep/ plus SYSTEM B & D for a more complete setup. Plus a loader and extra gates and a series of gates
water, hot water, and electric at the barn	Home Farm Site Infrastructure	\$7,000	\$2,500	farmtek https://www.farmtek.com/farm/supplies/cat1;ft_cooling_vent_heating;ft_on_demand_hot_water_heaters.html high \$1000 for tankless water heater
Lambing barn/animal shelter	Home Farm Site Infrastructure	\$65,000	\$50,000	winter shelter. Lambing on pasture. https://www.farmtek.com/farm/supplies/prod1;ft_livestock_housing;supermootel.html \$33,000 + construction = \$60,000
Pole barn with lambing area	Home Farm Site Infrastructure			20 sq ft per ewe, so 400 ewes are 800... so \$15/20 per square foot, so \$120,000 with labor but without concete
1000 ewe barn	Home Farm Site Infrastructure			330 x 60 barns to house 1,000 ewes... \$500,000 with concete and electric. without concrete \$300,000.
Climate controlled area in shelter	Home Farm Site Infrastructure	\$5,000	\$2,000	
Hay Storage site	Home Farm Site Infrastructure	\$85,000	\$10,000	https://www.farmtek.com/farm/supplies/cat1;ft_hay_storage_buildings;ft_clearspan_truss_arch_hay_storage.html also, silage bunk or ag bags
Labor for construction of hay storage building	Home Farm Site Infrastructure	\$25,000	\$15,000	
Skidsteer	Home Farm Site Infrastructure	\$65,000	\$0	https://www.machinerytrader.com/listings/construction-equipment/for-sale/list/category/1055/skid-steers/manufacture/deere/model-group/325
Tractor with bucket	Home Farm Site Infrastructure	\$65,000	\$0	tractor with bucket https://www.tractorhouse.com/listings/farm-equipment/for-sale/25181047/2014-kubota-l6060
Steel Grain Bins	Home Farm Site Infrastructure	\$13,000	\$6,000	https://www.farmerboyag.com/Complete-Feed-Bins https://farmequipparts.com/products/bulk-feed-bins
concrete area	Home Farm Site Infrastructure			temporary manure holding? concrete not needed
Start up inventory of hand tools	Home Farm Site Infrastructure	\$3,500	\$1,500	pitchforks, wheelbarrow etc etc. Harbor freight, tractor supply, etc
Flock Startup				
sheep flock, 400 yearlings	Flock Startup	\$80,000	\$60,000	
Sheep supplies, opening stock	Flock Startup	\$15,000	\$5,000	crooks, hoof trimmers, thermometers, med supply, markining paint, etc.
Animal Handling, Transportation				
Livestock trailer	Animal Handling, Transportation	\$10,000	\$5,000	up to 30-40 sheep, 16 foot trailer
Site Maintenance Equipment				
Mowing equipment	Site Maintenance Equipment	\$10,000	\$4,000	flair mower for his tractor, weeding equipment
Poly wire fencing & posts	Site Maintenance Equipment	\$11,572	\$9,000	posts, tape, reels. Assumption 100 acres x 3 for this project. so 2 subdivisions, each 2,087 feet to create 3 paddocks. So, 4,174 ft of fence for one, 100 acre paddock. For all 3 the total fencing needed for 300 acres is 12,522 http://mathcentral.uregina.ca/qq/database/qq.09.07/h/richard3.html . For posts, temporary posts, over 12,500 ft - we'll need one post every 10 feet, so 1250 posts. They come in packs of 40 or 50, so 32 boxes of 40. \$3443. For the polytape= assume 4 strands of turbotape. total distance is 12,522 x 4 = 1/2" width. Each roll is 1300 ft, so 50,000 ft. So 39 rolls needed. Cost \$119 each, so \$4679. Plus 10 economy reels @ \$36 each, \$350 total, plus gate handles and other small accessories \$200 plus signage on the safety fencing energizer plus about 20 sections of electronet, because you'll use it.
General Startup Costs				
Legal & Professional costs	Startup Readiness	\$10,000	\$5,000	
		\$546,187	\$227,630	

EMPIRE LIVESTOCK		5/21		5/14		5/7/19		4/16/19		3/12/19		Avg Low	Avg High
priced per #/ on the hoof: source empire livestock	Low	High	Low	High	Low	High	Low	High	Low	High			
Feeder Lamb (60-90)	\$1.30	\$2.00	\$1.50	\$2.50	no data	no data	\$1.30	\$3.05			\$1.37	2.5	
Market Lamb (90-130#)	\$1.80	\$2.30	\$2.00	\$2.95	\$1.80	\$2.50	\$1.00	\$2.80	\$1.50	\$3.00	1.46	2.71	
Sheep	\$0.30	\$0.80	\$0.30	\$1.00	\$0.30	\$1.00	\$0.32	\$0.90	\$0.40	\$0.80	0.32	0.9	
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NEW HOLLAND		1/14/19		2/11/19		3/11/19		4/15/19		5/13/19			
priced per head: source New Holland, Lancaster Farming Archives	Low	High	Low	High	Low	High	Low	High	Low	High	Avg Low	Avg High	
Slaughter Lamb (90-110)	\$180.00	\$215.00	\$215.00	\$255.00	\$285.00	\$330.00	\$220.00	\$250.00	\$225.00	\$250.00	225	260	
Slaughter Ewe (80-120)	\$105.00	\$135.00	\$105.00	\$135.00	\$112.00	\$115.00	\$70.00	\$90.00	no data		98	118.75	
Slaughter Ewe, Utility (120-160)	\$85.00	\$115.00	\$70.00	\$80.00	\$50.00	\$75.00	\$40.00	\$50.00	no data		61.25	80	

Central Bridge auction report		http://www.empirelivestock.com/LoadPage.aspx?iPage=5		
New Holland auction report		https://agmarketnews.com/livestock-markets/new-hollan		
AMS reports for lamb and sheep prices		https://www.ams.usda.gov/mnreports/kt_ls352.txt		
Non traditional lamb market study		http://afcerc.tamu.edu/publications/Publication-PDFs/CM		