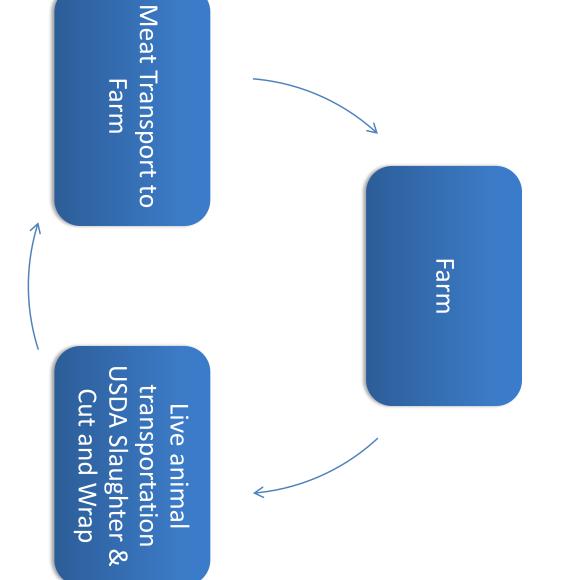
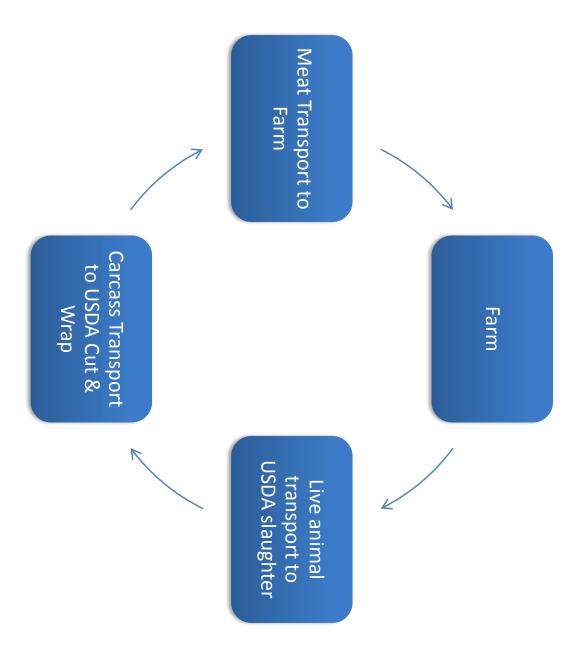


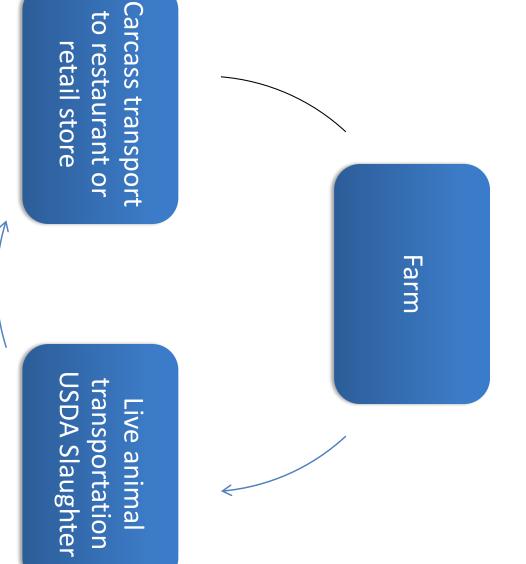
Transport Option 1

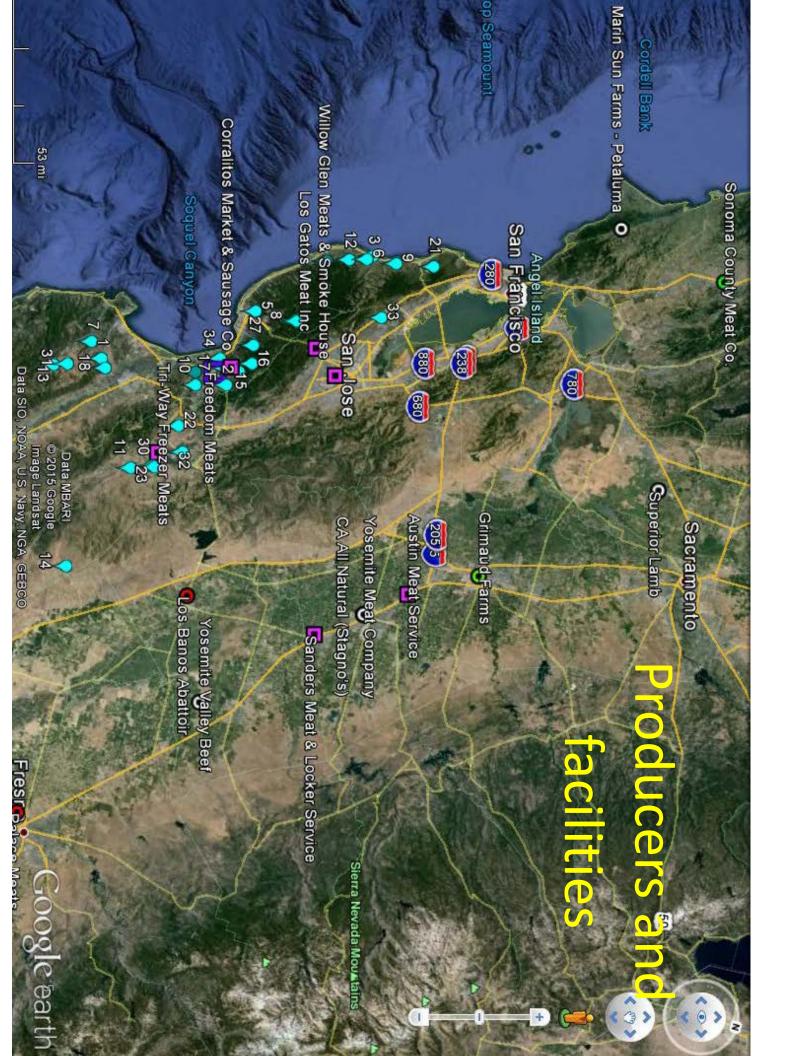


Transport Option 2



Transport Option 3





Transportation Costs

- Easy cost to ignore
- Must account for two trips: one for live animals and one for meat
- Taking one or two animals to a processor causes transportation costs to rise per head
- Rise in transportation cost per head reduces profitability
- Must account for: labor, fuel, repair and maintenance, insurance

	578.73	Ś	\$ (483.78)	Net Profit (Loss)
	749.40	'n	\$ 749.40	Total Overhead
	100.00	٠s	\$ 100.00	Marketing Expenses
	125.00	s	\$ 125.00	Storage
	262.20	'n	\$ 262.20	Product Transportation
	262.20	s	\$ 262.20	Live Animal Transportation
				Overhead
	0.4245754		0.424575425	
	1,328.13	'n.	\$ 265.63	Gross Margin
	1,800.00	'n	\$ 360.00	Total Direct Costs
	962.50	_	\$ 192.50	Processing Fee (per lb HCW)
				-OR-
	-	s	\$ -	Processing Fee (per head)
	425.00	'n	\$ 85.00	Slaughter Fee
	1,375.00	'n	\$ 275.00	Live Animal Purchase
				Direct Costs
	3,128.13	'n	\$ 625.63	Total Grass Product
	3,128.13	'n	\$ 625.63	Meat Sales
				Gross Product
	2		2	Loads
	1.00	Ş	\$ 1.00	Processing Charge (per lb HCW)
				-OR-
4				Processing Charge (per head)
	85.00	ţ,	\$ 85.00	Slaughter Charge (per head)
	192.5		192.5	Hot Carcass Weight
	625.63	s	\$ 625.63	Retail Value
4	275.00	s	\$ 275.00	Live Animal Value
	5		1	Number of Animals
	0.57	\$	\$ 0.57	Mileage Rate (\$/mile)
	230		062	Roundtrip Mileage to Processor
	6.50	\$	\$ 05.5	Average Retail Price (per lb)
	35%		%58	Retail Product Yield (% of live wt)
	70%		%07	Dressing Percentage
	1.00	\$	\$ 00.1	Live Animal Price (per lb)
	275		275	Live Animal Finish Weight
	Pork 5 head	Р	Pork 1 Head	Species
-		T		

What is a Capital Purchase?

- Durable expected useful life of 2 years or more (usually much more)
- Expensive Costs more than \$ 250 and often thousands of dollars

What to Buy

- Don't think about the object, think function
- A tractor is the object cultivation is the function
- A hoop house is the object increasing market (through season extension) is the function
- A portable electric fence is the object better use of forage is the function
- Refrigerated Truck Solves transportation and labor bottleneck

The Money

- What are your sources of money?
- a) Farm profit
- b) Savings
- c) Debt
- Have you covered other uses of money?
- a) Operating funds
- b) Reserve funds
- c) Prior debt service
- d) Family expenses (drawing)

How much money can you risk?

- Farm profit have you covered
- Operating expenses
- Capital replacement
- Market cycles and production problems
- Saved money
- Do you have non-farm uses for this money?
- Borrowed money
- How big a loan can you pay back <u>without</u> the added income you expect from the purchase.

What about Cash Flow?

- need it. Make sure you have operations cash when you
- You will need a Cash Flow Budget

Meat Transport - \$30,000



Meat Transport 16 foot - \$25,000 – Haul 6 pallets, 10 mpg



Meat Transport Sprinter – \$50,000 Haul 2 pallets



Meat Transport – Cooler - \$85



Meat Transport - Distributor

Distribution Network

Tony's Fine Foods service area includes a significant portion of the West Coast. We offer distribution from Seattle and Portland, down through the coasts and valleys of Salinas, Bakersfield,

Los Angeles and into Western



Nevada. Our fleet of modern trailers are equipped with multitemperature chambers and lift gate availability. Fleet drivers utilize state of the art technology to ensure fuel efficiency and order accuracy at the time of delivery. Tony's customers can feel secure knowing that their orders are quality assured, routed and tracked — thus making deliveries consistently more efficient.



3 Options on Getting Meat to Farm

- Purchase refrigerated vehicle
- Pick-up meat and put in coolers.
- Cost for picking up meat for 5 pigs in coolers = \$162 mileage + \$90 labor = \$252

- Contract with distributor
- Cost of delivery of 5 pigs (1 pallet) = \$135

Refrigerated Truck

- You still have the 284 mile round trip.
- Mileage costs will still at least .57 per mile at IRS rate. Actual cost per mile higher.
- Labor is still at least 7 hours to drive vehicle
- Cost will be the same or even slightly higher if the truck only gets 5 pigs (one pallet).
- 16 foot refrigerated truck and handle 6 pallets (30 pigs) in one trip.

IRS Mileage Rate

driven, up from 56 cents in 2014 for car, van, 2015: 57.5 cents per mile for business miles pickup, or panel truck

Actual Costs

							_
	2 trips per year	4 trips per year	6 trips per yea	12 trips per year	trip	Mileage Cost per	10 MPG
	323.76	647.52	971.28	1942.56	161.88	igg)	IRS
	568	1136	1704	3408			Miles Driven
	198.8	397.6	596.4	1192.8			Fuel
	1,667	1,667	1,667	1,667			Depreciation Insurance
	800	800	800	800			Insurance
	150	150	150	150			Tires
	500	500	500	500			Maintenance
$\left(\right.$	3315.47	3514.27	3713.07	4309.47	$\Big)$		Total
	2991.71	2866.75	2741.79	2366.91			IRS vs Actual Difference
	5.27	3.09	2.18	1.26			Adjusted mileage rate

	2 trips per year	4 trips per year	6 trips per yea	12 trips per yea	trip	A .:	18 MPG
(323.76	647.52	971.28	1942.56	161.88		IRS
	568	1136	1704	3408			Miles Driven
	142	284	426	852		9	П Б Б
	1,667	1,667	1,667	1,667		0	Depreciation Insurance
	800	800	800	800		9	Insurance
	150	150	150	150			Tires
	500	500	500	500			Maintenance
	3258.67	3400.67	3542.67	3968.67			Total
	2934.91	2753.15	2571.39	2026.11			IRS vs Actual
	5.74	2.99	2.08	1.16		0	Adjusted

Fuel cost calculated at \$3.50 per mile. Depreciation figured on \$25,000 with a 15 year life. Tires figured at replacing one tire a year.

Actual Mileage Rate – 12 trips per year Refrigerated Truck Transportation – and \$1.26 per mile

Cost Per Pig	Total Transportation	Number of trips	Total per trip	Labor	Mileage	Mileage Rate	Mileage	# pigs hauled	Refrigerated Truck
92.57	462.84	1	462.84	105	357.84	1.26	284	5	
46.28	462.84	Ь	462.84	105	357.84	1.26	284	10	
30.86	462.84	Ь	462.84	105	357.84	1.26	284	15	
23.14	462.84	-	462.84	105	357.84	1.26	284	20	
18.51	462.84	-	462.84	105	357.84	1.26	284	25	
15.43	462.84		462.84	105	357.84	1.26	284	30	

Refrigerated Truck – 12 trips per year -\$1.26 per mile

Savings and Payback Period for \$25,000

12 trips (years)	# pigs hauled	Payback period on \$25,000 truck	Monthly – 12 trips	Savings on trips per year	Difference (Truck with coolers & Refrig. Truck)	Number of Pigs
N/A	5		-2351.52		-195.96	5
29.4	10		851.04		70.92	10
6.2	15		4,053.60		337.8	15
3.4	20		7,256.16		604.68	20
2.4	25		10,458.72 13,661.28		871.56	25
1.8	30		13,661.28		1138.44	30

Distributor Transportation

- \$135 for one pallet (5 pigs) = \$27 per pig
- \$283 for three pallets (15 pigs) = \$18.87 per pig \$183 for two pallets (10 pigs) = \$18.30 per pig

Transportation Cost per Pig — Live Transport by Farm and Meat Transport by Distributor

# pigs	ъ	8	10	12
Live Transport mileage RT	260	260	260	260
Mileage Rate	0.57	0.57	0.57	0.57
Mileage Cost (\$)	148.2	148.2	148.2	148.2
lahor (6 hours driving X \$15 per hour)	90	90	90	90
Total Live Transport (\$)	208.2	208.2	208.2	208.2
Carcass Transport (\$15 per pig)	75	120	150	180
Number of pallets (5 pigs per pallet)	ב	2	2	2
Cost per pallet (\$)	135	91.5	91.5	91.5
Distributor Transportation Cost (\$)	135	183	183	183
Total Transportation Cost	418.2	511.2	541.2	571.2
Transportation Cost per pig (\$)	89.64	67.65	57.12	50.1
% Savings compare to 5 pigs				
transportation cost	22.7%	13.4%		

Transportation Cost per Pig — Live Transport by Farm and Meat Transport by Farm

% Savings compared to 5 pigs transportation cost	Transportation Cost per pig (\$)	Total Transportation Cost	Total Meat Transport (\$)	Labor (7 hours driving X \$10 per hour)	Mileage Cost (\$)	Mileage Rate	Mear Transport with Coolers Mileage RT	Carcass Transport (\$15 per pig)	Total Live Transport (\$)	Labor (6 hours driving X \$15 per hour)	Mileage Cost (\$)	Mileage Rate	Live Transport mileage RT	# pigs
	116.02	580.08	266.88	105	161.88	0.57	284	75	238.2	90	148.2	0.57	260	O
32.6%	78.14	625.08	266.88	105	161.88	0.57	284	120	238.2	90	148.2	0.57	260	∞

Van Conversion – Refrigeration Only

year 323.76	2 trips per	year 647.52	4 trips per	year 971.28	6 trips per	year 1942.56	12 trips per	per trip 161.88	Mileage Cost	13 MPG IRS	
								88			-
568		1136		1704		3408				Driven	Miles
142		284		459		918				Fuel D	
1,250		1,250		1,250		1,250				Depreciation Insurance	
800		800		800		800				-	
100		100		100		100				Tires	
500		500		500		500				Maintenance	
2792.00		2934.00		3109.00		3568.00				Total	
2792.00 2468.24		2934.00 2286.48		3109.00 2137.72		1625.44				Difference	IRS vs Actual
4.92		2.58		1.82		1.05				rate	Adjusted mileage

Actual Mileage Rate – 12 trips and 6 Refrigerated Truck Transportation trips per year

Refrigerated Truck # pigs hauled Mileage Mileage Rate Mileage	12 trips / Year 5 284 1.05 298.20	12 trips / year 10 284 1.05 298.20	6 trips / year 5 1.82 516.88	6 trips / year 10 284 1.82 516.88
Labor	105	105	105	105
Total per trip	403.20	403.20	621.88	621.88
Number of trips	1	1	1	1
Total Transportation	403.20	403.20	621.88	621.88
Cost per Pig	80.64	40.32	124.38	62.19

Initial Thoughts

- For this group, the comparison is between distributor providing these services and doing it
- If a capital purchase is going to make sense, the and lower per unit costs. additional functions to spread out the fixed costs truck needs to add additional trips per month and themselves.
- This might best be served by a producer service for other farmers. purchasing a truck for retail route and adding this