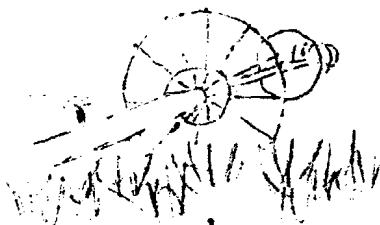


# ECONOMICS OF

## ALFALFA HAY PRODUCTION

WITH

## WHEEL LINE SPRINKLERS



by

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ALFALFA HAY PRODUCTION  
WITH WHEEL LINE SPRINKLER IRRIGATION

YIELD: 6.0 tons/acre. Equipment use based on 200 acres.  
Labor at \$2.50 including Social Security and Compensation Insurance.

CASH & LABOR COST PER ACRE					
Operation	Hours Per Acre	Labor	Fuel & Repairs	Materials	Total
<u>Cultural</u>					
Irrigate 10 times	2.9	7.25	2.25	Power for 4.4 acre ft. 17.90	\$27.40
Fertilize				500 lbs. Gypsum annually 5.00	5.00
Insect Control (contract)					5.00
<b>Total Cultural Cost</b>		<b>\$ 7.25</b>	<b>\$ 2.25</b>	<b>21.90</b>	<b>\$37.40</b>
<u>Harvest</u>					
Swath 3 times	.8	2.00	4.25		6.25
Rake 1 time	.2	.50	.45		.95
Bale 3 times	.9	2.25	3.15	Wire @ \$4/ton 24.00	29.40
Haul Contract				6 tons @ \$3.50 21.00	21.00
<b>Total Harvest Cost</b>		<b>\$ 4.75</b>	<b>\$ 7.85</b>	<b>45.00</b>	<b>\$57.60</b>
<u>Cash Overhead</u>					
Miscellaneous overhead				5.75	
Taxes				2.00	
Insurance				.65	
<b>Total Cash Overhead</b>				<b>\$ 8.40</b>	<b>\$ 8.40</b>
<b>TOTAL CASH &amp; LABOR</b>		<b>\$12.00</b>	<b>\$10.10</b>	<b>\$75.30</b>	<b>\$103.40</b>
Harvest and Cash Overhead costs per ton					\$ 11.00
Cash & Labor cost per ton					\$ 17.23
Investment	Per Acre	Depreciation (ANNUAL COST)		Interest	
Land	\$300.00			@8% \$40.00	
Irrigation System	250.00	17.00		12.50	
Stand	90.00	11.00		4.50	
Equipment	200.00	20.00		5.00	
Hay Storage (800 tons)	80.00	4.00		8.00	
<b>Total Investment</b>	<b>\$920.00</b>	<b>\$52.00</b>		<b>\$70.00</b>	<b>\$122.00</b>
<b>Total Cost Per Acre</b>					<b>225.40</b>
<b>Cost per ton @ 6 ton yield</b>					<b>37.56</b>

Yield (?)

## SUGGESTIONS FOR ACHIEVING HIGH YIELDING, HIGH QUALITY ALFALFA HAY

1. Select well drained, deep soil that is free from alkali forming salts.
2. Apply 400-600 pounds of gypsum per acre annually. Most of our soils are very deficient in sulphur which is supplied economically by fertilizing with gypsum.
3. Plant certified, inoculated seed of recommended varieties such as Vernal alfalfa.
4. Prepare a good firm seed bed. Plant 10 pounds of seed per acre at a depth of not greater than one inch for most soils. Sow seed in early spring (March and April).
5. Companion crops are not generally recommended.
6. Cut when alfalfa reaches 1/10 bloom or new growth from the crown is 1/4 inch in length. Use a swather and do not turn hay unless it is unavoidable. Three cuttings can be taken if the first cutting is harvested on time.
7. Bale when the moisture is in the 10-15% range. (Stems can be broken with a slight twist.)
8. Do not graze or cut between September 10 and October 15. This is the recovery period alfalfa needs to overwinter and begin growth early in the spring.
9. Irrigate to the needs of the alfalfa plant. During the peak water use, July and August, plan to irrigate every 10-15 days. Experience has shown that a quarter mile wheel line will do a good job of irrigating up to 40 acres of alfalfa.