

Louis Bourdet Ranch

Fertilizer trial - 2nd year

Applied 10-25-66 by W. V. Maxwell
Gay W. Johnston

(1) Fertilizer & Rate trial established 10-28-65. Fertilizers

used were:

Rate trial { N = Ammonium Sulfate 21-0-0
P = Single superphosphate

Element trial { N = Ammonium Nitrate 33-0-0
P = Triple Superphosphate 0-35-0
S = Gypsum

(2) Plot harvested 5-16-66

(3) Carry-over trial established 10-25-66. One half of each plot was fertilized at the same rate as previous year. The other half of each treatment was not fertilized to check for carry-over effect of the fertilizer application from the previous year. One "extra" check area was fertilized with dry cow manure at 100# pounds.

Rate trial { N = Urea 45-0-0
P = Triple superphosphate 0-35-0

Element trial { N = Ammonium Nitrate 33-0-0
P = Triple superphosphate 0-35-0
S = Gypsum

Bourdet Ranch

Fertilizer - Carry Over Trial

ReApplication 10-25-66



Purpose of trial - divide the 1965 element and rate trials in half. One half of each replication was treated with the same rate of Nitrogen, phosphorus, and/or sulfur. The other half of the replications were left untreated to observe any carry-over effect of the 1965 fertilizer applications.

N ₅₀	N ₁₅₀ P ₅₀	N ₁₅₀	N ₅₀ P ₅₀	N ₇₅	N ₅₀ P ₂₅	CK	N ₅₀ P ₂₅
N ₁₅₀ P ₁₀₀	N ₇₅	CK	N ₁₅₀	N ₁₀₀ P ₂₅	N ₅₀	N ₅₀ P ₁₀₀	N ₅₀ P ₁₀₀
N ₁₅₀	P ₅₀	NP	PS	P	CK	S	S
N ₁₀₀ P ₁₀₀	N ₁₅₀ P ₂₅	NS	P	S	PS	P	P
N ₇₅	P ₁₀₀	N	NPS	CK	S	PS	PS
CK	N ₅₀ P ₂₅	NS	CK	MANURE 100#	NPS	NP	NS
N ₁₀₀ P ₅₀	P ₂₅	CK	N	NPS	NP	N	N

Fertilizers used:

1965 Rate trial { N = Am. Sulphate
P = Triple phosphate
Element trial { N = Am. N. triate
P = Triple Super
S = Gypsum

1966

Rate trial { N = Urea
P = Triple Super
Element trial { N = Am. N. triate
P = Triple Super
S = Gypsum

LOUIS BOURDET RANCH
 CARRYOVER APPLICATION 25 OCT 66
 HARVESTED 15/16 MAY 67

ELEMENT - RETREATED*
 HARVEST WEIGHTS (DRY DATA UNAVAILABLE AT DATE)
 - PER PLOT BASIS (3/20)
 OF COMPUTATION - 24 Dec 70

Treatment	Replications					Treatment Total (T _t)	Treatment Mean (X)	T/A _c (T _t)(R ₀ W _t) 2000
	I	II	III	IV	V			
N	8.0	12.0	11.0			31.0	10.3	3.7
P	19.5	15.5	13.0			48.0	16.0	5.8
S	12.0	12.5	16.5			41.0	13.7	5.0
NS	9.5	7.0	10.5			27.0	9.0	3.3
NP	7.5	9.5	6.0			23.0	7.7	2.8
PS	17.5	12.5	-			30.0	15.0	5.4
NPS	11.5	16.5	10.5			38.5	12.8	4.6
LOW MANURE	12.5					12.5	12.5	4.5
CR	13.0	13.5	8.0	6.5		41.0	10.3	3.7
Block Totals (T _b)						(T)	(X)	

*APPLICATIONS ASSUMED TO BE ON EAST HALVES

Louis BOURDET RANCH
 CARRYOVER APPLICATION 25 Oct 66
 HARVESTED 15/16 MAY 67

RATE - CARRYOVER *
 DRY DATA UNAVAILABLE AT DATE
 (OR COMPUTATION - 24 Dec 70)
 - PER HOT BASIS
 (3/20)

Treatment	I	II	III	IV	V
N50	5.0	13.5	11.0		
N75	14.0	5.5	10.5		
N150	4.5	11.0	8.5		
P25	9.0				
P50	9.0				
P100	10.5				
N150 P25	9.0				
N150 P50	7.0				
N150 P100	13.0				
N100 P25	8.5				
N100 P50	5.5				
N100 P100	10.0				
N150 P25	8.0				
N150 P50	5.5				
N150 P100	7.0				
Block Totals (Tb)	9.0	13.0			

Treatment Total (Tt)	29.5	30.0	24.0	9.0	9.0	10.5	9.0	7.0	13.0	8.5	5.5	10.0	8.0	5.5	7.0	22.0
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Treatment Mean (Tx)	9.8	10.0	8.0	9.0	9.0	10.5	9.0	7.0	13.0	8.5	5.5	10.0	8.0	5.5	7.0	7.3
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T/Ac. (72e)(Plat Wt.) 2000	3.6	3.6	2.9	3.3	3.3	3.8	3.3	3.3	4.7	3.1	2.0	3.6	2.9	2.0	2.5	2.6
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* CARRYOVER ASSUMED TO BE ON WEST HALVES.

Louis Bourdet Ranch
 CARRYOVER APPLICATION 25 Oct 66
 HARVESTED 15/16 May 67

RATE

-PER PLOT BASIS
 (2)(20)

HARVEST WEIGHTS

(DRY DATA UNAVAILABLE AT DATE OF COMPUTATION - 24 DEC 70)

RETREATED *

Treatment	I	II	III	IV	V
N50	5.0	13.5	10.5		
N75	11.5	6.5	8.0		
N150	7.0	9.0	7.5		
P25	6.0				
P50	7.5				
P100	13.5				
N50 P25	10.0	17.0	12.5		
N50 P50	7.5				
N50 P100	12.5				
N100 P25	11.8				
N100 P50	7.5				
N100 P100	8.0				
N150 P25	6.5				
N150 P50	3.5				
N150 P100	7.5				
<i>CP</i> Block Totals (Tb)	9.5	9.0			

Treatment Total (Tt)

Treatment Mean

T/Ac (726)(Plot Wt) / 2000

29.0
26.0
23.5
6.0
7.5
13.5
39.5
7.5
12.5
11.8
7.5
8.0
6.5
3.5
7.5
18.5

9.7
8.7
7.8
6.0
7.5
13.5
13.2
7.5
12.5
11.8
7.5
8.0
6.5
3.5
7.5
9.3

3.5
3.2
2.8
2.2
2.7
4.9
4.8
2.7
4.5
4.3
2.7
2.9
2.4
1.3
2.7
3.4

*APPLICATIONS ASSUMED TO BE ON EAST HALVES

