

INTRODUCTION

The 1955 harvest marked the completion of 49 years of continuous agronomic investigations at the Dickinson Experiment Station.

Agronomy work in 1955 included: continuation of many of the rotation and tillage trials begun in 1907 on the Main field and in 1927 on Field "N"; continuation of the rotation and tillage trials revised in 1954; trials to determine the effect of commercial fertilizers upon soil moisture utilization by grain crops; continuation of small grain varietal trials which this year included 16 hard red spring wheat varieties, 6 durum varieties, 17 oat varieties, 13 barley varieties, 12 varieties of flax, 6 varieties of winter rye and 3 winter wheat varieties; a corn hybrid and variety trial of 20 entries; a corn grain production trial of 10 entries; a rate of planting trial with corn, and, small scale nursery trials with new strains and selections of winter wheat, spring wheat, oats, barley and flax.

Plans are being made to change several trials on Field "N" beginning in 1956. These trials have been conducted for 30 years, and have adequately answered the questions which prompted their initiation. New lines of investigation will be begun on these plots next year.

Table 1 - Daily Precipitation - 1955

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	0	T	0	0	0	T	0	T	0	0	T	0
2	0	T	T	0	0	.04	.09	.27	0	0	0	0
3	T	.02	0	0	.04	T	0	0	0	0	0	0
4	0	.11	.01	.32	.06	.05	0	T	0	T	0	0

5	0	T	.02	.12	0	.02	T	0	0	0	0	0
6	0	.05	.03	.10	0	.40	.10	.20	0	0	0	T
7	0	.01	T	0	0	.11	.11	0	0	0	0	T
8	T	.04	0	0	0	.09	.29	0	0	0	0	0
9	T	.06	T	0	.08	.87	.01	0	.01	0	0	0
10	T	0	T	0	0	.13	.10	0	0	0	0	0
11	.01	T	T	T	0	.03	T	0	0	0	0	0
12	T	0	T	.02	0	.02	T	0	0	.01	0	0
13	0	T	.02	0	0	0	T	0	0	0	0	0
14	.01	0	T	0	.03	0	0	T	0	0	0	0
15	T	0	T	.10	0	0	0	0	0	0	0	0
16	0	0	.02	0	.01	T	0	0	0	0	0	0
17	0	0	T	0	.12	.08	0	T	0	0	T	0
18	.03	.32	0	T	0	.01	0	0	T	0	0	.01
19	0	T	.01	.01	0	0	0	.02	0	0	0	0
20	T	0	T	1.15	0	0	0	0	0	0	0	0
21	T	T	T	.03	0	0	0	0	1.45	0	T	0
22	.01	T	.01	0	.30	.03	0	T	.04	0	0	0
23	.01	.05	.02	0	.10	0	0	0	0	0	0	0

24	.18	.01	T	T	.20	0	0	.28	0	0	0	0
25	T	T	T	.05	.34	0	0	0	T	0	0	0
26	.01	T	.01	.01	.21	T	.30	0	.04	0	.08	0
27	.03	.03	0	0	.06	2.75	0	0	T	0	0	T
28	T	0	0	0	.90	.07	T	.04	0	.12	.01	0
29	T		0	0	0	0	.08	0	0	.02	.02	0
30	0		0	0	0	0	0	0	T	0	T	.12
31	0		0		0		T	0		.03		T
Sums	.29	.70	.15	1.91	2.45	4.70	1.08	.81	1.53	.18	.11	.13
Total Annual Precipitation - 14.04												

Table 2 - Climatic Data Summary - 1955

Climatic Data	Nov. 1954	Dec. 1954	Jan. 1955	Feb. 1955	Mar. 1955	Apr. 1955	May 1955	June 1955	July 1955	Aug. 1955	Sept. 1955	Oct. 1955	Total Amount	Mean Seasonal
Precipitation - 1955	.11	.13	.29	.70	.15	1.91	2.45	4.70	1.08	.81	1.53	.18	14.04	10.14
61 year average	.54	.44	.47	.43	.77	1.24	2.21	3.48	2.19	1.74	1.19	.87	15.57	9.12
Mean Temperature - Degrees Fahrenheit														
1955	37.4	26.5	15.7	8.8	22.3	46.5	56.3	62.7	70.5	72.1	57.6	47.1		

40 year average	28.1	16.2	10.2	13.2	24.6	41.8	52.2	61.6	68.1	66.2	56.0	43.7		
Wind Velocity - Miles per hour														
1955						5.2	6.3	4.5	4.1	3.3	3.7			
34 year average						6.7	6.7	5.6	4.7	4.9	5.2			
Last killing frost in the spring														
1955	April 29 - 27°													
45 year average	May 18													
First killing frost in the fall														
1955	September 10 - 28° F													
45 year average	September 15													
Frost Fall season for 1955 - 134 days -							45 year average frost fall season - 117 days.							

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