

# WHEAT FERTILITY EXPERIMENT No.222

Agronomy Research Station

Established 1969

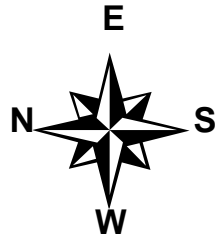
Location: **Stillwater**

Plot size: 20' x 60'

Alley: 17'

Total Trial Area:

137' x 520'



OBJECTIVE: To study fertilizer nitrogen, phosphorus, and potassium in winter wheat. In recent years, this study has also been used to develop yield potential models and yield predictions through sensor based technologies.

1, 2 – Harvest Sequence Number

**1, 2 – Treatment Number**

1, 2 – Soil Sample Sequence Number

TRT	Pre-plant N rate (kg N / ha)	Pre-plant P rate (kg P / ha)	Pre-plant K rate (kg K / ha)
1.*	0	30	37
2.*	45	30	37
3.*	90	30	37
4.*	135 ^	30	37
5.	90	0	37
6.	90	15	37
7.	90	45	37
8.	90	30	0
9.	90	30	74
10.*	0	0	0
11.	135 ^	45	74
12.	135 ^	45	0
13.	90	30	45 (Sul-Po-Mag)

N applied as 46-0-0 (Urea)  
P applied as 0-46-0 (Triple Super Phosphate)  
K applied as 0-0-60 (Potash)  
\* - YP plot  
^ - Split 135 kg N rates to 67.5 kg N (fall) and 67.5 kg N (spring)

137	52	49	48	45	44	41	40	37	36	33	32	29	28	25	24	21	20	17	16	13	12	9	8	5	4	1
	<b>13</b>	<b>13</b>	<b>8</b>	<b>5</b>	<b>7</b>	<b>3</b>	<b>2</b>	<b>11</b>	<b>12</b>	<b>6</b>	<b>9</b>	<b>1</b>	<b>10</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>11</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>9</b>	<b>1</b>	<b>7</b>	<b>4</b>
77	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
	Rep 2	Rep 1	Rep 2												Rep 1											

60	51	50	47	46	43	42	39	38	35	34	31	30	27	26	23	22	19	18	15	14	11	10	7	6	3	2
	<b>13</b>	<b>13</b>	<b>8</b>	<b>10</b>	<b>7</b>	<b>12</b>	<b>9</b>	<b>5</b>	<b>2</b>	<b>11</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>8</b>	<b>6</b>	<b>9</b>	<b>12</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>4</b>	<b>7</b>
0	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27
	Rep 4	Rep 3	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520
	Rep 4												Rep 3													