

The background of the slide is a photograph of a vast, flat green field, likely a crop field, stretching to a distant horizon. The sky is a clear, bright blue with a few small, white, wispy clouds scattered across it. The overall scene is bright and open, suggesting a rural or agricultural setting.

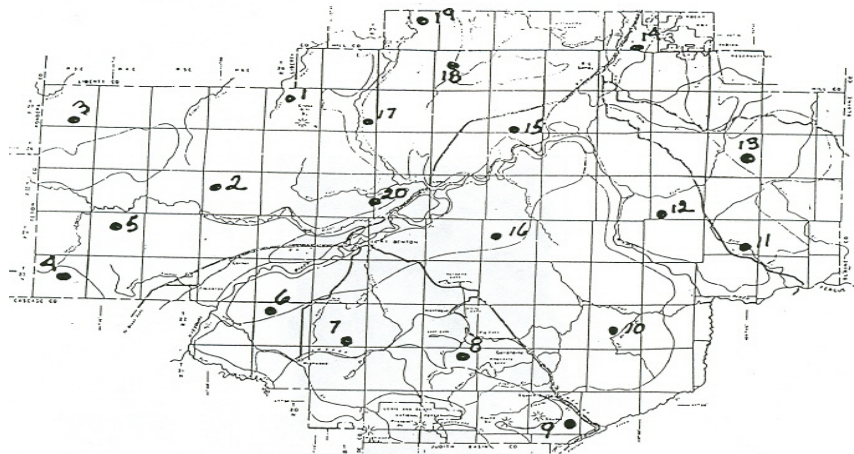
2022 Soil Moisture Survey

MSU Extension Chouteau County 2022 Soil Moisture Survey

Testing for soil moisture took place from March 30-31. All stubble locations rated in the poor range. Across the entire county, the Paul Brown Probe went from 8-20 inches in the stubble which calculates to less than four inches of moisture in the soil. To get a 25 bushel yield for barley, we would need four inches of precipitation during the growing season. To get a 25 bushel yield for spring wheat, we would need five inches of rain during the growing season.

Sincerely,

Tyler Lane
MSU Extension Chouteau County



DEPTH OF MOISTURE INCHES IN STUBBLE

#	Soil	93	94	95	96	97	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2010	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	AVG
1	Med	42	26	10	32	23	15	13	12	11	12	11	15	23	18	36	8	42	16	19	42	25	41	35	20	28	25	12	22.67
2	Modc	14	26	10	32	27	12	10	11	12	4	22	20	19	28	14	12	42	14	17	42	12	34	33	28	26	19	10	20.37
3	Modf	42	26	10	40	24	22	9	15	12	12	12	14	31	13	23	24	42	16	20	42	18	42	34	22	42	22	10	23.67
4	Modf	24	30	10	26	24	14	16	20	16	18	13	12	26	20	13	12	42	19	24	42	20	42	42	22	42	20	9	22.89
5	Modf	24	24	10	24	18	14	12	15	13	4	12	14	24	24	18	12	22	14	16	42	16	23	33	18	30	22	8	18.74
6	Modf	18	24	30	28	36	12	19	24	13	12	14	20	24	20	25	12	15	19	42	42	42	42	42	42	42	34	18	26.33
7	Modf	30	42	30	24	28	16	18	18	30	11	11	20	20	25	24	14	34	22	35	42	42	42	42	42	42	34	20	28.07
8	Modf	20	22	26	38	24	12	26	11	12	12	14	22	34	23	24	10	24	27	38	42	20	42	42	42	42	30	10	25.52
9	Modf	16	16	22	36	22	12	12	12	19	12	15	26	18	25	24	10	27	15	42	42	42	42	42	42	34	26	12	24.56
10	Modf	24	22	24	32	25	15	12	28	8	9	20	26	34	28	38	24	26	14	20	42	42	42	42	42	34	26	13	26.37
11	Modc	20	26	16	30	24	16	15	15	12	10	12	14	26	24	17	5	17	16	16	42	24	42	42	42	27	24	8	21.56
12	Modc	30	22	30	32	18	14	23	14	20	18	12	22	16	24	20	3	20	16	28	42	17	42	40	20	34	25	10	22.67
13	Modc	20	20	18	34	23	14	22	12	12	7	14	22	20	30	25	3	24	15	15	42	20	42	42	22	20	20	11	21.07
14	Modc	21	28	16	32	27	10	25	16	24	10	20	22	18	30	30	6	24	17	37	42	24	42	42	23	34	20	14	24.22
15	Modf	42	30	14	34	23	14	18	5	12	7	12	12	18	20	14	4	24	11	20	42	20	38	27	25	25	24	12	20.26
16	Med	42	24	30	32	30	32	26	22	12	6	20	36	42	36	38	24	42	19	42	42	42	42	42	42	42	42	13	31.93
17	Modc	22	22	22	30	30	12	14	6	11	6	17	22	23	28	24	6	21	13	18	42	18	38	24	20	22	18	11	20.00
18	Modf	18	20	22	42	24	10	18	18	16	7	20	42	19	38	24	4	40	13	22	42	42	42	42	26	42	26	10	25.52
19	Modf	22	26	12	36	24	6	20	15	18	11	14	26	24	20	12	3	34	13	15	42	24	42	25	30	24	19	12	21.07
20	Modc	22	30	18	32	22	29	20	18	14	8	12	18	26	18	25	8	20	16	18	42	10	39	42	29	30	22	14	22.30

MSU Extension Chouteau County 2021 Soil Moisture Survey

Testing for soil moisture took place from March 30-31. All winter wheat locations except one (east of Geraldine) rated in the poor to fair range. Excluding the site east of Geraldine, the Paul Brown probe went from 13-24 inches in winter wheat which calculates to less than 5 inches of moisture in the soil. To get a 40 bushel winter wheat yield, we need five inches of rain during the growing season.

Winter wheat yield potential:

Excellent potential: site 10

Fair potential: sites 3-8-9 and 16

Poor potential: sites 1-2-4-5-6-7-11-12-13-14-15-17-18-19 and 20

Poor winter wheat yield potential is less than 3.9 inches of available water.

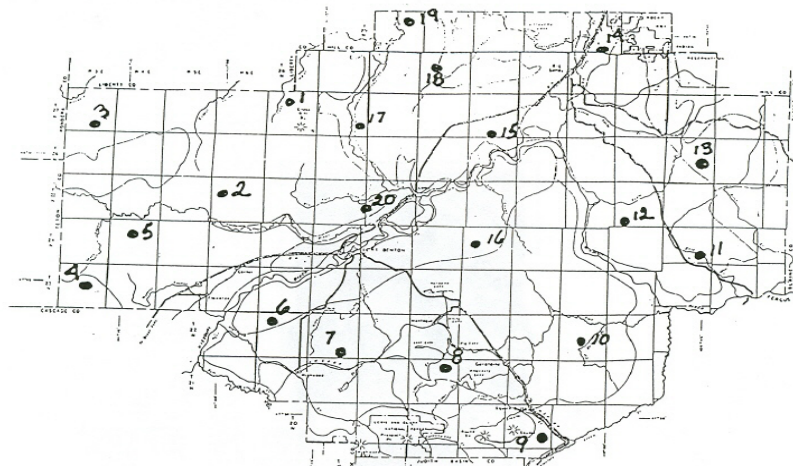
Fair winter wheat yield potential is 4-4.9 inches of available water.

Excellent winter wheat yield potential is greater than 5 inches of available water.

Sincerely,

Tyler Lane

MSU Extension Chouteau County



DEPTH OF MOISTURE INCHES IN FALLOW OR WINTER WHEAT

#	Soil	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	10	13	14	15	16	17	18	19	20	21	22	Average
1	Med	28	42	24	36	18	20	12	14	16	6	12	20	30	22	34	25	40	26	19	42	42	42	42	42	42	42	24	28.22
2	Modc	19	32	8	42	21	16	10	14	10	4	22	22	30	30	30	4	40	44	42	42	22	42	42	42	42	42	21	27.22
3	Modf	23	30	20	42	30	12	13	26	14	17	26	34	37	24	36	24	42	20	42	42	42	42	42	42	42	42	23	30.70
4	Modf	20	27	20	36	20	26	22	30	18	11	14	24	25	24	34	15	42	26	42	42	20	42	42	42	42	42	18	28.37
5	Modf	30	28	16	32	22	15	15	12	12	4	6	20	40	33	22	6	42	30	42	42	26	42	42	42	42	42	13	26.59
6	Modf	16	22	24	24	42	16	18	30	10	10	26	24	30	39	26	12	20	42	42	42	42	42	42	42	42	42	22	29.22
7	Modf	24	36	30	24	30	19	24	24	24	11	20	25	39	20	34	6	42	42	42	42	42	42	42	42	42	42	20	30.74
8	Modf	15	24	26	42	23	26	15	20	14	10	12	22	36	26	24	10	38	42	42	42	25	42	42	42	42	42	24	28.44
9	Modf	12	24	30	42	28	28	20	11	24	12	21	32	40	18	42	10	27	42	42	42	42	42	42	42	42	42	26	30.56
10	Modf	30	20	22	42	27	24	12	33	16	6	25	20	42	36	26	34	42	42	42	42	42	42	42	42	42	42	40	32.41
11	Modf	16	24	14	39	26	31	22	24	20	9	13	16	26	22	24	6	38	42	42	42	42	42	42	42	42	32	18	28.00
12	Modf	30	32	28	40	36	23	23	30	18	15	24	12	21	20	14	3	38	42	42	42	42	42	42	42	42	42	13	29.56
13	Modc	20	20	16	26	14	35	28	10	15	6	22	24	38	14	28	16	38	42	42	42	42	42	42	42	42	38	24	28.44
14	Modc	30	35	24	32	23	26	30	24	17	8	12	16	26	35	26	18	40	42	42	42	42	42	42	42	42	42	25	30.56
15	Modf	26	32	26	32	33	18	13	14	6	9	30	14	25	23	20	4	38	42	42	42	30	42	42	42	42	36	22	27.59
16	Med	26	36	42	36	33	24	28	26	13	8	12	34	37	36	30	26	42	42	42	42	42	42	42	42	42	42	25	33.04
17	Modc	18	24	26	32	24	20	10	18	14	12	30	22	36	24	32	8	42	42	18	42	42	42	42	42	42	38	23	28.33
18	Modf	24	30	20	36	30	19	34	22	20	14	25	34	42	30	39	6	42	42	42	42	42	42	42	42	42	40	18	31.89
19	Modf	27	24	20	32	26	22	26	11	14	12	17	32	30	24	23	4	42	42	26	42	42	42	42	42	42	42	20	28.44
20	Modc	24	26	24	34	26	22	14	24	14	14	23	30	30	20	32	4	38	30	20	42	17	42	42	42	42	42	24	27.48