

## Northwest IA Corn Growth and Yield Simulation

### H2O Stress

Date	Leaf #	Growth Stage	LAI	Grain Yld (bu/A)	Grain Yld % of Potential	Growth (0-1)	Photosynthesis (0-1)	Excess H2O	Root Depth (in)	
Plant	0		0.00	0		0.0	0.0	0.0	2	Current
26-Apr	0		0.00	0		0.0	0.0	0.0	2	Current
27-Apr	0		0.00	0		0.0	0.0	0.0	2	Current
28-Apr	0		0.00	0		0.0	0.0	0.0	3	Current
29-Apr	0		0.00	0		0.0	0.0	0.0	4	Current
30-Apr	0		0.00	0		0.0	0.0	0.0	4	Current
01-May	0		0.00	0		0.0	0.0	0.0	4	Current
02-May	0		0.00	0		0.0	0.0	0.0	4	Current
03-May	0		0.00	0		0.0	0.0	0.0	4	Current
04-May	0		0.00	0		0.0	0.0	0.0	5	Current
05-May	0		0.00	0		0.0	0.0	0.0	5	Current
06-May	0		0.00	0		0.0	0.0	0.0	6	Current
07-May	0		0.00	0		0.0	0.0	0.0	6	Current
08-May	0		0.00	0		0.0	0.0	0.0	7	Current
09-May	0		0.01	0		0.0	0.0	0.0	7	Current
10-May	0		0.01	0		0.0	0.0	0.0	8	Current
11-May	1		0.01	0		0.0	0.0	0.0	8	Current
12-May	1		0.01	0		0.0	0.0	0.0	9	Current
13-May	1		0.01	0		0.0	0.0	0.0	9	Current
14-May	1		0.01	0		0.0	0.0	0.0	9	Current
15-May	1		0.01	0		0.0	0.0	0.0	9	Current
16-May	1		0.01	0		0.0	0.0	0.0	9	Current
17-May	1		0.02	0		0.0	0.0	0.0	9	Current
18-May	1		0.02	0		0.0	0.0	0.0	10	Current
19-May	1		0.03	0		0.0	0.0	0.0	10	Current
20-May	1		0.04	0		0.0	0.0	0.0	11	Current
21-May	1		0.06	0		0.0	0.0	0.0	11	Current
22-May	2		0.07	0		0.0	0.0	0.0	11	Current
23-May	2		0.08	0		0.0	0.0	0.0	12	Current
24-May	2		0.09	0		0.0	0.0	0.0	12	Current
25-May	2		0.09	0		0.0	0.0	0.0	12	Current
26-May	2		0.11	0		0.0	0.0	0.0	12	Current
27-May	3		0.13	0		0.0	0.0	0.0	13	Current
28-May	3	2	0.15	0		0.0	0.0	0.0	13	Current
29-May	3	2	0.18	0		0.0	0.0	0.0	14	Current
30-May	3	2	0.20	0		0.0	0.0	0.0	14	Current
31-May	3	2	0.22	0		0.0	0.0	0.0	15	Current
01-Jun	3	2	0.25	0		0.0	0.0	0.0	15	Current
02-Jun	4	2	0.24	0		0.0	0.0	0.0	16	Current
03-Jun	4	2	0.27	0		0.0	0.0	0.0	16	Current
04-Jun	4	3	0.30	0		0.0	0.0	0.0	17	Current
05-Jun	4	3	0.31	0		0.0	0.0	0.0	18	Current
06-Jun	5	3	0.36	0		0.0	0.0	0.0	19	Current
07-Jun	5	3	0.43	0		0.0	0.0	0.0	20	Current
08-Jun	5	3	0.49	0		0.0	0.0	0.0	21	Current
09-Jun	6	3	0.56	0		0.0	0.0	0.0	22	Current

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10-Jun	6	3	0.62	0		0.0	0.0	0.0	23	Current
11-Jun	6	3	0.69	0		0.0	0.0	0.0	24	Current
12-Jun	7	3	0.76	0		0.0	0.0	0.0	24	Current
13-Jun	7	3	0.84	0		0.0	0.0	0.0	25	Current
14-Jun	7	3	0.91	0		0.0	0.0	0.0	26	Current
15-Jun	8	3	0.99	0		0.0	0.0	0.0	27	Current
16-Jun	8	3	1.06	0		0.0	0.0	0.0	27	Current
17-Jun	8	3	1.13	0		0.0	0.0	0.0	28	Current
18-Jun	8	3	1.18	0		0.0	0.0	0.0	28	Current
19-Jun	8	3	1.22	0		0.0	0.0	0.0	28	Current
20-Jun	8	3	1.28	0		0.0	0.0	0.0	29	Current
21-Jun	9	3	1.36	0		0.0	0.0	0.0	29	Current
22-Jun	9	3	1.44	0		0.0	0.0	0.0	30	Current
23-Jun	9	3	1.53	0		0.0	0.0	0.0	30	Current
24-Jun	9	3	1.57	0		0.0	0.0	0.0	31	Current
25-Jun	9	3	1.61	0		0.0	0.0	0.0	31	Current
26-Jun	10	3	1.68	0		0.0	0.0	0.0	31	Current
27-Jun	10	3	1.75	0		0.0	0.0	0.0	32	Current
28-Jun	10	3	1.86	0		0.0	0.0	0.0	32	Current
29-Jun	10	3	1.98	0		0.0	0.0	0.0	33	Current
30-Jun	10	3	2.08	0		0.0	0.0	0.0	33	Current
01-Jul	11	3	2.02	0		0.0	0.0	0.0	34	Current
02-Jul	11	3	2.08	0		0.0	0.0	0.0	35	Current
03-Jul	11	3	2.14	0		0.0	0.0	0.0	35	Current
04-Jul	12	3	2.22	0		0.0	0.0	0.0	36	Current
05-Jul	12	3	2.26	0		0.0	0.0	0.0	36	Current
06-Jul	12	3	2.30	0		0.0	0.0	0.0	37	Current
07-Jul	12	3	2.33	0		0.0	0.0	0.0	37	Current
08-Jul	12	3	2.37	0		0.0	0.0	0.0	37	Current
09-Jul	13	3	2.43	0		0.0	0.0	0.0	38	Current
10-Jul	13	3	2.48	0		0.0	0.0	0.0	38	Current
11-Jul	13	3	2.53	0		0.0	0.0	0.0	39	Current
12-Jul	13	3	2.58	0		0.0	0.0	0.0	39	Current
13-Jul	14	3	2.63	0		0.0	0.0	0.0	40	Current
14-Jul	14	3	2.68	0		0.0	0.0	0.0	40	Current
15-Jul	14	3	2.71	0		0.0	0.0	0.0	41	Current
16-Jul	14	3	2.74	0		0.0	0.0	0.0	41	Current
17-Jul	15	4	2.76	0		0.0	0.0	0.0	42	Current
18-Jul	15	4	2.77	0	0%	0.0	0.0	0.0	42	Current
19-Jul	15	4	2.78	0	0%	0.0	0.0	0.0	43	Current
20-Jul	15	4	2.78	0	0%	0.0	0.0	0.0	43	Current
21-Jul	15	4	2.77	0	0%	0.0	0.0	0.0	44	Current
22-Jul	15	4	2.77	0	0%	0.0	0.0	0.0	45	Current
23-Jul	15	4	2.76	0	0%	0.0	0.0	0.0	45	Current
24-Jul	15	4	2.76	0	0%	0.0	0.0	0.0	45	Current
25-Jul	15	4	2.75	0	0%	0.0	0.0	0.0	46	Current

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26-Jul	15	4	2.74	0	0%	0.0	0.0	0.0	46	Current
27-Jul	15	4	2.74	0	0%	0.0	0.0	0.0	47	Current
28-Jul	15	4	2.73	0	0%	0.0	0.0	0.0	47	Current
29-Jul	15	4	2.72	1	1%	0.0	0.0	0.0	47	Current
30-Jul	15	5	2.71	3	2%	0.0	0.0	0.0	48	Current
31-Jul	15	5	2.71	6	3%	0.0	0.0	0.0	48	Current
01-Aug	15	5	2.70	9	4%	0.0	0.0	0.0	48	Current
02-Aug	15	5	2.70	13	6%	0.0	0.0	0.0	49	Current
03-Aug	15	5	2.69	18	8%	0.0	0.0	0.0	49	Current
04-Aug	15	5	2.69	22	10%	0.0	0.0	0.0	49	Current
05-Aug	15	5	2.68	27	12%	0.0	0.0	0.0	49	Current
06-Aug	15	5	2.68	31	15%	0.0	0.0	0.0	49	Current
07-Aug	15	5	2.68	36	17%	0.0	0.0	0.0	50	Current
08-Aug	15	5	2.67	41	19%	0.0	0.0	0.0	50	Current
09-Aug	15	5	2.67	46	21%	0.0	0.0	0.0	50	Current
10-Aug	15	5	2.66	50	23%	0.0	0.0	0.0	51	Current
11-Aug	15	5	2.66	53	25%	0.0	0.0	0.0	51	Current
12-Aug	15	5	2.66	57	27%	0.0	0.0	0.0	51	Current
13-Aug	15	5	2.65	61	28%	0.0	0.0	0.0	51	Current
14-Aug	15	5	2.65	66	31%	0.0	0.0	0.0	51	Current
15-Aug	15	5	2.64	70	33%	0.0	0.0	0.0	51	Current
16-Aug	15	5	2.63	75	35%	0.1	0.0	0.0	52	Current
17-Aug	15	5	2.62	80	37%	0.1	0.1	0.0	52	Current
18-Aug	15	5	2.61	84	39%	0.0	0.0	0.0	52	Current
19-Aug	15	5	2.59	88	41%	0.1	0.0	0.0	52	Current
20-Aug	15	5	2.57	92	43%	0.1	0.1	0.0	52	Current
21-Aug	15	5	2.54	96	45%	0.2	0.1	0.0	52	Current
22-Aug	15	5	2.50	101	47%	0.2	0.1	0.0	53	Current
23-Aug	15	5	2.47	105	49%	0.1	0.1	0.0	53	Current
24-Aug	15	5	2.43	110	51%	0.2	0.1	0.0	53	Current
25-Aug	15	5	2.39	114	53%	0.2	0.2	0.0	53	Current
26-Aug	15	5	2.35	118	55%	0.2	0.2	0.0	53	Current
27-Aug	15	5	2.30	123	57%	0.2	0.2	0.0	53	Current
28-Aug	15	5	2.26	127	59%	0.2	0.1	0.0	53	Current
29-Aug	15	5	2.21	131	61%	0.2	0.2	0.0	53	Current
30-Aug	15	5	2.16	136	63%	0.2	0.2	0.0	54	Current
31-Aug	15	5	2.11	140	65%	0.2	0.2	0.0	54	Current
01-Sep	15	5	2.06	144	67%	0.2	0.2	0.0	54	Current
02-Sep	15	5	2.01	148	69%	0.2	0.2	0.0	54	Current
03-Sep	15	5	1.97	153	70%	0.2	0.2	0.0	54	Current
04-Sep	15	5	1.91	157	72%	0.2	0.2	0.0	54	Current
05-Sep	15	5	1.87	161	75%	0.1	0.1	0.0	54	Current
06-Sep	15	5	1.82	166	77%	0.1	0.1	0.0	54	Current
07-Sep	15	5	1.77	170	78%	0.1	0.0	0.0	54	Current
08-Sep	15	5	1.72	174	81%	0.1	0.0	0.0	54	Current
09-Sep	15	5	1.67	179	82%	0.2	0.1	0.0	54	Current

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10-Sep	15	5	1.62	183	84%	0.2	0.1	0.0	54	Current
11-Sep	15	5	1.56	187	86%	0.2	0.1	0.0	55	Current
12-Sep	15	5	1.51	190	88%	0.1	0.1	0.0	55	Current
13-Sep	15	5	1.45	194	89%	0.2	0.1	0.0	55	Current
14-Sep	15	5	1.40	197	91%	0.1	0.0	0.0	55	Current
<b>15-Sep</b>	<b>15</b>	<b>5</b>	<b>1.35</b>	<b>200</b>	<b>92%</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>55</b>	<b>Current</b>
16-Sep	15	5	1.23	202	93%	0.0	0.0	0.0	55	<b>Forecasted</b>
17-Sep	15	5	1.18	204	94%	0.0	0.0	0.0	55	Forecasted
18-Sep	15	5	1.12	205	95%	0.0	0.0	0.0	55	Forecasted
19-Sep	15	5	1.08	207	96%	0.0	0.0	0.0	55	Forecasted
20-Sep	15	5	1.00	208	96%	0.0	0.0	0.0	55	Forecasted
21-Sep	15	5	0.93	209	97%	0.0	0.0	0.0	55	Forecasted
22-Sep	15	5	0.88	211	98%	0.0	0.0	0.0	55	Forecasted
23-Sep	15	5	0.83	212	98%	0.0	0.0	0.0	55	Forecasted
24-Sep	15	5	0.80	213	99%	0.0	0.0	0.0	55	Forecasted
25-Sep	15	5	0.78	214	99%	0.0	0.0	0.0	51	Forecasted
26-Sep	15	5	0.75	214	99%	0.0	0.0	0.0	48	Forecasted
27-Sep	15	5	0.72	215	99%	0.0	0.0	0.0	48	Forecasted
28-Sep	15	5	0.69	215	99%	0.0	0.0	0.0	48	Forecasted
29-Sep	15	5	0.65	215	100%	0.0	0.0	0.0	36	Forecasted
30-Sep	15	5	0.59	216	100%	0.0	0.0	0.0	39	Forecasted
01-Oct	15	5	0.55	216	100%	0.0	0.0	0.0	39	Forecasted