

**North Central Research Extension Center—Minot
2010 Wilbur Ellis Foliar Nitrogen Products on Sunflower**

Jeremy Pederson, Area Extension Specialist/Cropping Systems

Trial information

- Design: RCB with three replicates
- Plot Size: 10' x 25' (4 rows on 30 inch spacing with inside 2 rows treated and harvested)
- Planting Date/Rate/Hybrid: May 18, 23 K seeds per acre, DeKalb DKF29-30 NS/DM
(Note: Seedling emergence was reduced due to excessive seeding depth and soil crusting)
- Previous Crop/Tillage: Wheat/Spring tilled with chisel plow spikes
- Seeding System: Two-row plot planter on 30 inch rows
- Fertility: No fertilizer added
- Treatment Application Date: July 7
- Application Equipment: CO₂ pressurized hand boom with 8001 flat fans @ 40 psi and 10 GPA
- Weed Control: 3 pt/a Prowl H2O + 5 oz/a Spartan PRE, 8 oz/a clethodim POST
- Harvest Date: October 13

Treatment ¹	Timing	Rate gallon/acre	Test		
			Weight lb/bu	Oil %	Yield bu/A
Untreated	--	--	30.1	34.5	1397.1
NDemand High End	V18	1.0	29.8	34.5	1358.8
NDemand 30L + WECO 1145	V18	1 + 0.5	29.4	33.1	1380.5
Weco 1145	V18	0.5	30.0	33.7	1344.7
LSD 5%	--	--	NS	NS	NS
C.V.%	--	--	1.9	4.5	7.6
Mean	--	--	29.8	33.9	1370.3

Spring soil test results (4/26/2010 sampling date): N= 79 lb/a (0-24"), P = 14ppm (0-6"), K = 410 ppm (0-6"), S = 719 lb/a (0-24"), OM = 3.0%

¹ NIS at 0.25% v/v added with all treatments