

## Safe Rates for Seed-Placed Nitrogen Fertilizer

Safe rates of seed-placed nitrogen fertilizer using ammonium nitrate (34-0-0) and urea (46-0-0) at two seedbed utilization levels and three moisture levels

Nitrogen Fertilizer <sup>1</sup>	% Available Soil Moisture	10% SBU <sup>2</sup>	50%
		- lb N/acre -	
Ammonium Nitrate (34-0-0)	>75%	65	80
	50 - 75%	50	65
	<50%	40	50
Urea (46-0-0)	>75%	55	70
	50 - 75%	40	50
	<50%	30	40

<sup>1</sup>. Available soil moisture is stated in per cent of field capacity for medium (loam) to fine textured (clay loam) soils.

Assumes soil moisture will not change significantly during germination and emergence of winter wheat. If soil moisture decreases after seeding, then some fertilizer injury may occur.

<sup>2</sup>. SBU – seedbed utilization is the per cent of the seedbed over which fertilizer and seed are spread.

**Source:**

"Fertilizing Winter Wheat in Southern Alberta," Agri-Facts, Alberta Agriculture and Rural Development, Alberta Government, accessed September 25, 2013. Page 2. [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/agdex96/\\$file/112\\_542-1.pdf?OpenElement](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex96/$file/112_542-1.pdf?OpenElement)



Western Winter Wheat Initiative