

## Winter Wheat Estimated Water Amount Requirements

Soil texture-based estimation of total available water and water amounts per irrigation event for winter wheat during the winter wheat growing season

Soil Texture	50-cm root zone (vegetative or pre-flower growth stages)		100-cm root zone (flowering, fruit formation, and maturation growth stages)	
	Total available water (mm)	Water required to replenish soil to field capacity at 50% allowable depletion (mm)	Total available water (mm)	Water required to replenish soil to field capacity 40% allowable depletion (mm)
Loamy sand	57	28	114	46
Sandy loam	70	35	140	56
Loam	90	45	180	72
Sandy clay loam	76	38	152	61
Silt loam	100	50	200	80
Clay loam	100	50	200	80
Silty clay loam	110	55	220	88
Sandy clay	86	43	172	69
Silty clay	106	53	212	85
Clay	96	48	192	77

**Source:**

"Irrigation Scheduling for Winter Wheat in Southern Alberta," Agri-Facts, Alberta Agriculture and Rural Development, Alberta Government, accessed September 25, 2013. Page 1-2. [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/agdex13535/\\$file/112\\_561-1.pdf?OpenElement](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex13535/$file/112_561-1.pdf?OpenElement)

