

Table 4 Allowable moisture deficits in inches for soybeans on various soil types, irrigation methods, and with and without hardpans

Soil type	Without Hardpans		With hardpan above 10 inches	
	Pivot Deficit	Flood Deficit	Pivot Deficit	Flood Deficit
Coarse Sand	1.00	1.50	0.50	1.00
Fine Sand	1.50	2.00	1.00	1.50
Loamy Sand	1.50	2.00	1.00	1.50
Sandy Loam	1.75	2.25	1.00	1.50
Fine Sandy Loam	1.75	2.25	1.00	1.50
Very Fine Sandy Loam	1.75	2.25	1.00	1.50
Clay	1.50	2.00	1.00	1.50
Clay Loam	1.50	2.00	1.00	1.50
Silty Clay	2.00	2.50	1.25	1.75
Silty Clay Loam	2.00	2.50	1.25	1.75
Silt Loam	2.00	2.50	1.25	1.75

Table 5 Allowable moisture deficits in inches for various crops and soil types for flood and center pivot irrigation with and without hardpans

Soil type	Soybeans		Cotton		Milo		Corn	
	Flood	Pivot	Flood	Pivot	Flood	Pivot	Flood	Pivot
Sandy	2.00	1.50	2.00	1.50	2.00	1.50	1.50	1.00
Sandy Loam	2.25	1.75	2.50	2.00	2.50	2.00	1.75	1.25
Silt Loam wo/pan	2.50	2.00	2.50	2.00	3.00	2.50	2.00	1.50
Silt Loam w/pan	1.75	1.25	2.00	1.50	2.00	1.50	1.50	1.00
Clay	2.00	1.50	2.00	1.50	2.50	2.00	1.75	1.25

Wo/pan – without pan, without shallow restrictive layer
W/pan – with pan, shallow restrictive layer at 10 inches or less below soil surface