

SOIL STRUCTURE

Potential problem	Units	No problem	Slight to moderate problem	Severe problem
pH	No units	6.5-8.5(Ideal)	<6.5: > 8.5(okay)	<6.5: > 8.5(Worst)
Salinity ECw(water)	Ds/m=m mol/cm	<2.0	2.0-2.6	>2.6
Salinity ECe(soil)	Ds/m	<3.0	3.0-3.8	>3.8
TDS*	Mg/l	<450	450-2000	>2000
Specific ion toxicity	No units	<3	3-9	>9
Chloride	me/l	<4	4-10	>10
Boron **	me/l	<0.7	0.7-3.0	>3
Bicarbonate	me/l	<4	>4	>>4

SOIL TEXTURE

Particular	Clay Loam	Silty Clay	Loam	Sandy Loam
Water requirement(mm)	1583	1602	1995	2261
Irrigation(mm)	1125	1200	1500	1775
Runoff(mm)	207	191	193	161

Percolation	893 (56%)	870 (54%)	1187(60%)	1515 (67%)
Evapotranspiration	690 (44%)	732 (46%)	808 (40%)	745 (33%)

Irrigation Schedule basis variety

Short duration variety			Medium duration variety			Long duration variety		
Days	No. of irrigation	Water level (cm)	Days	No. of irrigation	Water level (cm)	Days	No. of irrigation	Water level (cm)
1-25	5-7	2-3	1-30	5-7	2-3	1-35	6-8	2-3
25	-	Thin film of water	30	-	Thin film of water	35	-	Thin film of water
28	-	Life irrigation	33	-	Life irrigation	38	-	Life irrigation
29-50	6	2-5	34-65	6-8	2-5	39-90 or 95	12-15	2-5

51-70	5-6	2-5	66-95	8-10	2-5	96-125	7-9	2-5
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71-105	5-6	2-5	96-125	6-8	2-5	126-150	5-6	2-
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