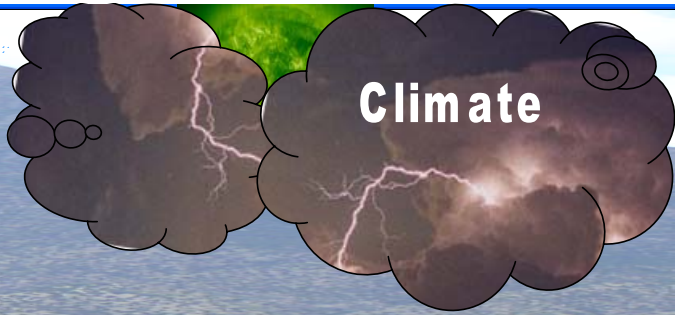


(CS -1)

**Watershed Approach !!!**

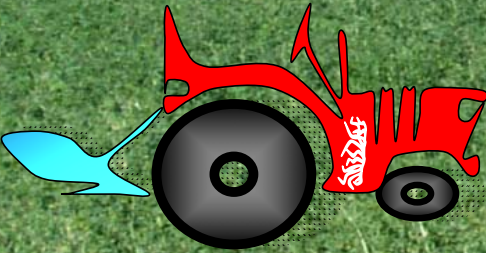
IWM & Cropping System  
Planning Considerations



**Climate**



**Crop Quality & Yield**

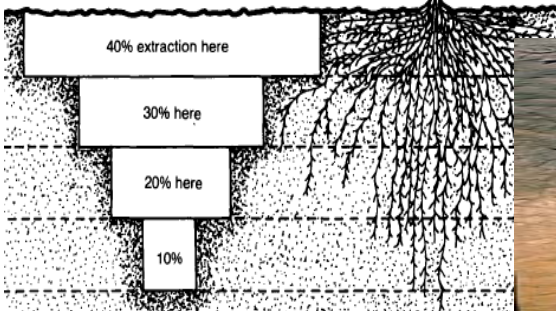


**Water Supply & Quality**



**Irrigation System  
& Application Efficiency**

**Active Root Zone Depth  
& Moisture Extraction Pattern**



**Soil Quality/Health**



**Drainage &  
Water Quality Impacts**

Rudy Garcia 2008

**(CS - 2) Farm Record Form (Case Study)**

Producer:	Crop:	Variety:	Soils:	Acres:	Irrigation Water Source (canal, well, spring):											
Irrigation System:		Available GPM/CFS:			Gross Irrigation Application Needed (in.):							Cost per acre (\$)	(% of Total Cost)	Labor Req. (hrs.)		
Etc (in/ac): <u>33.03</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov				Dec	
<b>*Inputs &amp; Mgmt. Practices</b>	Average Daily Temp.			47 °F	59 °F	68 °F	73 °F	70 °F								
	Corn Silage Monthly Crop Evapotranspiration (ETc)			1.75"	4.32"	8.33"	10.28"	8.35"	GDD = Growing Degree Days  Total GDD to reach Crop Maturity = 2,848							
				69 GDD	443 GDD	696 GDD	856 GDD	784 GDD								
				Average Daily ETc (inches)			.06	.14						.28	.33	.28
Irrigations (IWM Evaluation)																
Moisture Monitoring (cb)																
Water (W), Soil (S), Petiole (P) & Tissue (T) samples																
Fertilize (N, P, K Other)																
Pesticides (Pest Scouting)																
Herbicides (Weed ID)																
Cultivation (type)																
Soil amendments: Gypsum, Manure, Sulfur, other																
OTHER: Planting (Seeds, lbs/ac), Pruning, Harvest, Irrigation O&M, Marketing, etc.																
Field Observations e.g., Ponding, Soil Crusts, Erosion, Salinity, Disease, compaction, etc.																
<b>Total Inputs &amp; Mgmt. Costs/acre: _____ ; Avg. Yield/acre: _____ ; Product Market Value (\$/acre): _____ ; Profit margin (%): _____</b>																