

**Soil Water Holding Worksheet**

Field \_\_\_\_\_ Location in field \_\_\_\_\_  
 Year \_\_\_\_\_ By \_\_\_\_\_  
 Crop \_\_\_\_\_  
 Planting data \_\_\_\_\_ Emergence data \_\_\_\_\_  
 Soil name if available \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Factor	Season	
	1st 30 days	Remainder of season
Root zone depth or max soil depth - ft		
Available water capacity AWC - in		
Management allowed deficit MAD - %		
Management allowed deficit MAD - in		

(Note: Irrigate prior to the time that SWD is equal to or greater than MAD - in)

Estimated irrigation system application efficiency \_\_\_\_\_ percent

Data obtained during first field check					Data obtained each check		
(1) Depth range (in)	(2) Soil layer thickness (in)	(3) Soil texture	(4) Available water capacity (AWC) (in/in)	(5) AWC in soil layer (in)	(6) Field check number	(7) Soil water deficit (SWD) (%)	(8) Soil water deficit (SWD) (in)
					1		
					2		
					3		
					4		
					5		
					6		
					7		
					8		
					1		
					2		
					3		
					4		
					5		
					6		
					7		
					8		

Total AWC for root zone depth of \_\_\_\_\_ ft= \_\_\_\_\_  
 Total AWC for root zone depth of \_\_\_\_\_ ft= \_\_\_\_\_

$AWC(5) = \text{layer thickness}(2) \times AWC(4)$

$SWD(8) = \frac{AWC(5) \times SWD(7)}{100}$

SWD summary		
Check number	Check date	SWD totals
1		
2		
3		
4		
5		
6		
7		
8		