U.S. Department of Agriculture
Natural Resources Conservation Service

Worksheet
Soil-Water Content
(Gravimetric Method)

Land user_____ Date _____ Field office _____

Taken by _____ Field name/number _____

Soil name (if available) _____ Crop _____ Maximum effective root depth _____ ft

Depth range inches	Soil layer thickness inches d	Soil texture	Sample			Tare weight g Tw	Net dry weight g Dw	Volume of sample cc Vol	Moisture per-centage % Pd	Bulk density g/cc Dbd	Soil-water content in/in SWC	Layer water content inches TSWC
			Wet weight g WW	Dry weight g DW	Water loss g Ww							

Dry weight (Dw) of soil = DW - TW = _____g

Weight of water lost (Ww) = WW - DW = _____g

Bulk density (Dbd) = $\frac{\text{Dw(g)}}{\text{Vol (cc)}}$ = _____g/cc

Percent water content, dry weight Pd = $\frac{\text{Ww}}{\text{Dw}} \times 100$ = _____%

Soil-water content (SWC) = $\frac{\text{Dbd} \times \text{Pd}}{100 \times 1}$ = _____in/in

Total soil-water content in the layer (TSWC) = SWC x d = _____inches