

# IRRIGATION WATER MANAGEMENT (IWM)

## \$\$\$ Do it Because it Makes Cents \$\$\$

By improving DU one can save as much as \$1,600/yr (\$16/Ac) due to reduced pumping costs<sup>1</sup>



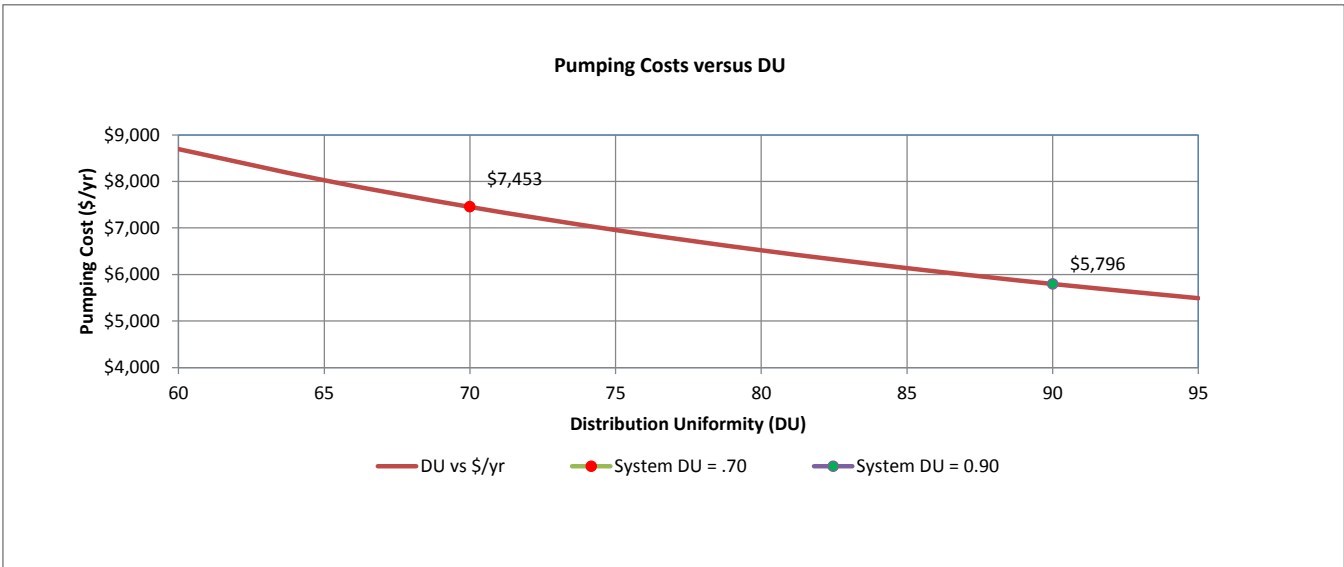
"Distribution Uniformity" (DU): A measure of how evenly water is applied to a field

**Table 1: Example Field Information**

Crop	Acres	Irrigation Requirement (in/crop)	Crops per Year	Cost of Power(\$/kwh)	Pump Efficiency
Strawberry	100	36	1	0.13	53
Typical flow rate =		45 gpm/ac	Pressure Required at Pump =		30 psi

**Table 2: Output - Pumping costs as a function of DU**

Applied Irrigation			Pump		Cost	
DU	(in/yr)	(ac-ft/yr)	(hrs)	(HP)	(Kwh)	(\$/yr)
60	60	500	603	149	66,882	\$8,695
65	55	462	557	149	61,737	\$8,026
70	51	429	517	149	57,327	\$7,453
75	48	400	483	149	53,506	\$6,956
80	45	375	453	149	50,161	\$6,521
85	42	353	426	149	47,211	\$6,137
90	40	333	402	149	44,588	\$5,796
95	38	316	381	149	42,241	\$5,491



For more information contact your local Natural Resource Conservation Service (NRCS) or Resource Conservation District (RCD) office

The USDA is an equal opportunity provider and employer

1. Savings based on improving DU from 0.7 to 0.9 on 100 acres.

