

Practice: 464 - Irrigation Land Leveling

Scenario # 1 Land Leveling ≥ 125 but ≤ 205 cy/ac

Scenario Description:

Louisiana

This is scenario will level a typical 80 acres of irrigated crop land surface to enhance uniform flow of surface water to improve irrigation efficiency using dirt pans/carry-all/pan-scraper equipment. The typical volume of earth moved is 190 cubic yards per acre. Resource Concern: Excess/Insufficient - Inefficient Use of Irrigation Water

Associated Conservation Practices: 433 - Irrigation System, Surface and Subsurface; 607 - Surface Drain, Field Ditch; 388 - Irrigation Field Ditch; 449 - Irrigation Water Management; or 587 - Structure for Water Control.

Before Practice Situation:

Irregular field surface reduces uniformity of surface application and thus irrigation efficiency by localized ponding and/or excess runoff/runon.

After Practice Situation:

Cropland will be reshaped to provide uniform distribution of irrigation water in order to promote irrigation efficiencies.

Scenario Feature Measure:

Acres of Land Levelled

Scenario Typical Size:	80	Acre	Unit Cost	\$330.10
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Scraper, pull, 15 CY	304	Hour	\$19.19	\$5,833.76
Equip./Install.	Tractor, agricultural, 260 HP	152	Hour	\$107.76	\$16,379.52
Labor	Equipment Operators, Heavy	152	Hour	\$25.62	\$3,894.24
Mobilization	Mobilization, large equipment	1	Each	\$249.71	\$249.71
Mobilization	Mobilization, Heavy Equipment Operator	2	Hour	\$25.38	\$50.76
				Total Cost:	\$26,407.99

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Scenario # 2 Land Leveling > 205 cy/ac

Scenario Description:

Louisiana

This is scenario will level a typical 80 acres of irrigated crop land surface to enhance uniform flow of surface water to improve irrigation efficiency using dirtfans/carry-all/pan-scraper equipment. The typical volume of earth moved is 260 cubic yards per acre. Resource Concern: Excess/Insufficient - Inefficient Use of Irrigation Water

Associated Conservation Practices: 433 - Irrigation System, Surface and Subsurface; 607 - Surface Drain, Field Ditch; 388 - Irrigation Field Ditch; 449 - Irrigation Water Management; or 587 - Structure for Water Control.

Before Practice Situation:

Irregular field surface reduces uniformity of surface application and thus irrigation efficiency by localized ponding and/or excess runoff/runon.

After Practice Situation:

Cropland will be reshaped to provide uniform distribution of irrigation water in order to promote irrigation efficiencies.

Scenario Feature Measure:

Acres of Land Levelled

Scenario Typical Size:	80	Acre	Unit Cost	\$450.33
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Scraper, pull, 15 CY	416	Hour	\$19.19	\$7,983.04
Equip./Install.	Tractor, agricultural, 260 HP	208	Hour	\$107.76	\$22,414.08
Labor	Equipment Operators, Heavy	208	Hour	\$25.62	\$5,328.96
Mobilization	Mobilization, large equipment	1	Each	\$249.71	\$249.71
Mobilization	Mobilization, Heavy Equipment Operator	2	Hour	\$25.38	\$50.76
				Total Cost:	\$36,026.55