

Contents

Introduction . . . . .	.1	Disk offset 15-foot 26" blade . . . . .	.27
Survey Methods . . . . .	.1	Disk offset 13-foot 26" blade . . . . .	.28
Machinery Costs . . . . .	.1	Disk offset 9-foot hyd fold 22" blade . . . . .	.28
Ownership costs . . . . .	.1	Disk tandem 26-foot hyd fold 26" blade . . . . .	.28
Operating costs . . . . .	.3	Disk tandem 23-foot hyd fold 26" blade . . . . .	.29
Timeliness costs . . . . .	.4	Mulch tiller 21-foot . . . . .	.29
Total and per-unit-of-work costs and their relationship to machine use . . . . .	.4	Mulch tiller 19-foot . . . . .	.29
Machinery cost projections . . . . .	.6	Rotary tiller 20-foot . . . . .	.30
Adjusting costs to fit your situation . . . . .	.6	Rotary tiller 13-foot . . . . .	.30
Estimating costs for operations involving two or more machines . . . . .	.6	Rotary tiller 6-foot . . . . .	.30
 Appendix A: Machinery Costs Tables 			
Tractors			
Wheel tractor 425 hp 4WD/cab . . . . .	.7	Cultivator field 42-foot hyd fold . . . . .	.31
Wheel tractor 350 hp 4WD/cab . . . . .	.7	Cultivator field 36-foot hyd fold . . . . .	.31
Wheel tractor 300 hp 4WD/cab . . . . .	.8	Cultivator field 24-foot hyd fold . . . . .	.31
Wheel tractor 250 hp 4WD/cab . . . . .	.8	Cultivator rolling 12-row . . . . .	.32
Wheel tractor 235 hp 2WD/cab . . . . .	.9	Basin tillage tool 12-row hyd trip . . . . .	.32
Wheel tractor 200 hp 2WD/cab . . . . .	.9	Basin tillage tool 8-row hyd trip . . . . .	.32
Wheel tractor 185 hp 2WD/cab . . . . .	.10	Basin tillage tool 6-row hyd trip . . . . .	.33
Wheel tractor 165 hp 2WD/cab . . . . .	.10	Basin tillage tool 26-foot hyd trip . . . . .	.33
Wheel tractor 145 hp 2WD/cab . . . . .	.11	Basin tillage tool 21-foot hyd trip . . . . .	.33
Wheel tractor 125 hp 2WD/ cab . . . . .	.11	Basin tillage tool 15-foot hyd trip . . . . .	.34
Wheel tractor 105 hp 2WD/cab . . . . .	.12	Rodweeder 60-foot center drive . . . . .	.34
Wheel tractor 95 hp 2WD/cab . . . . .	.12	Rodweeder 50-foot center drive . . . . .	.34
Wheel tractor 85 hp 2WD/cab . . . . .	.13	Rodweeder 40-foot center drive . . . . .	.35
Wheel tractor 75 hp 2WD/cab . . . . .	.13	Cultiweeder 60 foot . . . . .	.35
Wheel tractor 55 hp 2WD/cab . . . . .	.14	Cultiweeder 54 foot . . . . .	.35
Wheel tractor 45 hp 2WD/cab . . . . .	.14	Cultiweeder 47 foot . . . . .	.36
Wheel tractor 35 hp 4WD/no cab . . . . .	.15	Roller 45-foot hydraulic . . . . .	.36
Wheel tractor 28 hp 4WD/no cab . . . . .	.15	Roller harrow 24 foot 4 bar folding . . . . .	.36
Wheel tractor 25 hp 4WD/no cab . . . . .	.16	Roller harrow 20 foot 4 bar folding . . . . .	.37
Wheel tractor 19 hp 4WD/no cab . . . . .	.16	Roller harrow 16 foot 4 bar rigid . . . . .	.37
Orchard tractor 80 hp 60" base 2WD/cab . . . . .	.17	Roller harrow 14 foot 4 bar rigid . . . . .	.37
Orchard tractor 80 hp 60" base 4WD/cab . . . . .	.17	Roller harrow 12 foot 4 bar rigid . . . . .	.38
Orchard tractor 65 hp 48" base 2WD/cab . . . . .	.18	Rotary harrow 43 foot . . . . .	.38
Orchard tractor 65 hp 48" base 4WD/cab . . . . .	.18	Packer 21-foot . . . . .	.38
Crawler tractor 500 hp rubber track cab . . . . .	.19	Packer 19-foot with hitch . . . . .	.39
Crawler tractor 450 hp rubber track cab . . . . .	.19	Packer 16-foot with hitch . . . . .	.39
Crawler tractor 375 hp rubber track cab . . . . .	.20	Packer 14-foot with hitch . . . . .	.39
Crawler tractor 340 hp rubber track cab . . . . .	.20	Packer 8-foot with hitch . . . . .	.40
Crawler tractor 290 hp rubber track cab . . . . .	.21	Corrugator 6-row . . . . .	.40
Crawler tractor 255 hp rubber track cab . . . . .	.21	Corrugator 4-row . . . . .	.40
 Tillage Equipment 			
Plow moldboard 10btm one-way trip shank . . . . .	.22	Ditcher 3 point . . . . .	.41
Plow moldboard 9btm one-way trip shank . . . . .	.22	Triple-K 16-foot gauge wheels . . . . .	.41
Plow moldboard 8btm one-way trip shank . . . . .	.22	Triple-K 12-foot gauge wheels . . . . .	.41
Plow moldboard 7btm one-way trip shank . . . . .	.23	Landplane 24-foot folding 3-point attach . . . . .	.42
Plow moldboard 6btm two-way trip shank . . . . .	.23	Landplane 20-foot folding 3-point attach . . . . .	.42
Plow moldboard 5btm two-way trip shank . . . . .	.23	Landplane 20-foot rigid 3-point attach . . . . .	.42
Plow moldboard 4btm two-way trip shank . . . . .	.24	Landplane 16-foot rigid 3-point attach . . . . .	.43
Plow moldboard 3btm two-way trip shank . . . . .	.24	Harrow tinetooth or flex 6-foot . . . . .	.43
Plow chisel 30-foot trail unit, hyd fold . . . . .	.24	Harrow tinetooth 60-foot cart . . . . .	.43
Plow chisel 28-foot trail unit, hyd fold . . . . .	.25	Heavy harrow 70-foot . . . . .	.44
Plow chisel 20-foot trail unit, hyd fold . . . . .	.25	Heavy harrow 50-foot . . . . .	.44
Plow chisel 19-foot trail unit, hyd fold . . . . .	.25	 Seeding Equipment 	
Plow chisel 17-foot gauge wheel . . . . .	.26	Drill disk 36-foot press wheels fold fert . . . . .	.44
Plow chisel 15-foot gauge wheel . . . . .	.26	Drill disk 36-foot press wheels fold no fert . . . . .	.45
Plow chisel 13-foot gauge wheel . . . . .	.26	Drill disk 30-foot press wheels fold no fert . . . . .	.45
V-Ripper 7-shank dual gauge wheels . . . . .	.27	Drill disk 24-foot press wheels fold no fert . . . . .	.45
Disk offset 20-foot hyd fold 26" blade . . . . .	.27	Drill disk 12-foot press wheels no fert . . . . .	.46
		No-till drill disk 30-foot w/fertilizer . . . . .	.46
		No-till drill disk 20-foot w/fertilizer . . . . .	.47
		No-till drill disk 15-foot w/fertilizer . . . . .	.47

No-till drill hoe 40-foot w/fertilizer	48
No-till drill hoe 30-foot w/fertilizer	48
No-till drill hoe 25-foot w/fertilizer	49
Air Seeder disk 40-foot	49
Air Seeder disk 35-foot	50
Air Seeder disk 30-foot	50
Grass Seeder 8-foot	51
Row crop planter 24 row	51
Row crop planter 12 row	52
Row crop planter 8 row	52
Row crop planter 6 row	53
Row crop planter 4 row	53
Potato planter 8-row semi-mounted	54
Potato planter 6-row semi-mounted	54
Potato planter 4-row semi-mounted	55

Forage Harvesting Equipment

Windrower 18-foot heavy duty	55
Windrower 18-foot medium duty	56
Windrower 14-foot light duty	56
Mower-conditioner 14-foot pull-type	57
Mower-conditioner 12-foot pull-type	57
Mower-conditioner 10-foot pull-type	58
Rotary mower 10-foot	58
Rotary mower 26-foot	59
Disk mower 26-foot	59
Flail shredder 20-foot	60
Flail shredder 18-foot	60
Flail shredder 15-foot	61
Flail shredder 8-foot	61
Forage harvester self propelled 8 row	62
Forage harvester self propelled 6 row	62
Forage harvester pull-type w-row pickup	63
Forage harvester pull-type 3-row	63
Forage harvester pull-type 2-row	64
Forage semi-trailer 34-foot self unloading	64
Forage semi-trailer 36-foot self unloading	65
Hay rake 20-foot hydraulic parallel bar	65
Hay rake 24-foot ground drive low capacity	66
Hay rake 32-foot ground drive std capacity	66
Hay rake 35-foot ground drive hi capacity	67
Hay tedder basket type 8.5-foot	67
Hay tedder/rake combination	68
Hay baler rectangular bale 48 x 48 PTO	68
Hay baler rectangular bale 48 x 34 PTO	69
Hay baler rectangular bale 32 x 34 PTO	69
Hay baler round bale 1500-pound PTO	70
Hay baler rectangular 16 x 18 PTO	70
Hay baler rectangular 14 x 18 PTO	71

Bale wagon self-propelled 2 wide 16 x 23	71
Bale wagon self-propelled 3 wide 16 x 18	72
Bale wagon pull-type big bale 48 x 48	72
Bale wagon pull-type 2 wide	73

Row Crop and Grain Harvesting Equipment

Potato harvester with blower 4 row	73
Potato harvester with blower 3 row	74
Potato harvester with blower 2 row	74
Potato windrower 4 row	75
Vine chopper 6 row (potatoes)	75
Defoliator 12-row	76
Defoliator 6-row	76
Corn picker self propelled 6 row	77
Corn picker self propelled 4 row	77

Bean rod cutter and windrower 12 row	78
Bean rod cutter and windrower 8 row	78
Bean rod cutter and windrower 6 row	78
Bean windrower 12 row	79
Bean windrower 8 row	79
Bean combine pull type 72" pickup	79
Beet topper triple drum knife 12-row	80
Beet topper triple drum knife 6-row	80
Beet lifter loader, full tank 4 T	81
Beet lifter loader, mini tank 3 T 6-row	81
Beet lifter loader, mini tank 3 T 12-row	82
Onion rod lifter 4 bed 5 shank	82
Onion rod lifter 3 bed 3 shank	83
Onion topper loader double wide 3 row	83
Onion topper loader double wide 2 row	84
Onion sack loader mounted	84
Combine hillside 25-foot pea bar	85
Combine hillside 30-foot grain head	85
Combine hillside 30-foot axial grain	86
Combine hillside 25-foot axial grain	86
Combine level 30-foot grain head	87
Combine level 25-foot grain head	87
Combine level 22-foot grain head	88
Combine level 18-foot grain head	88
Combine level 8/12-row bean pickup	89
Combine level 8-row corn head	89
Combine level 6-row corn head	90

Other Equipment

Sprayer PTO 3-point (1000 gal) 50 foot	90
Sprayer PTO 3-point (200 gal) 50 foot	91
Sprayer PTO 3-point (150 gal) 30 foot	91
Orchard sprayer (500 gallon tank)	91
Orchard sprayer (400 gallon tank)	92
Orchard sprayer (300 gallon tank)	92
Manure spreader 12.5 ton capacity	93
Manure spreader 4.5 ton capacity	93
Front-end loader forage	94
Forage box 16-foot tandem	94
Forage trailer	95

Appendix B: Remaining On-Farm Value (RFV) Tables for Tractors and Other Self-propelled Equipment

RFV of small tractors (<80 hp)	96
RFV of medium tractors (80-150 hp)	96
RFV of large tractors (>150 hp)	97
RFV of grain combines	97
RFV of skid-steer loaders and all other vehicles	98

Appendix C: Machinery Cost Survey Results

Tractors	99
Tillage equipment	100
Seeding equipment	102
Forage harvesting equipment	103
Row crop and grain harvesting equipment	104
Other equipment	106