

Cropland Records



Name: _____

Years: _____

Residue Estimate Table

Crop	Pounds of Residue per Unit of Yield
Spring Wheat	78 pounds/bushel
Winter Wheat	108 pounds/bushel
Durum	80 pounds/bushel
Rye	75 pounds/bushel
Barley	72 pounds/bushel
Oats	60 pounds/bushel
Flax	90 pounds/bushel
Millet	80 pounds/bushel
Triticale	90 pounds/bushel
Sorghum	1.0 pounds/pound
Corn (grain)	1.0 pounds/pound
Lentils	1.1 pounds/pound
Safflower	1.5 pounds/pound
Sunflower	2.0 pounds/pound
Mustard	1.5 pounds/pound
Buckwheat	1.5 pounds/pound
Beans	1.0 pounds/pound
Peas	0.9 pounds/pound
Potatoes	125 pounds/ton
Sugar Beets	140 pounds/ton
Fall Canola	2.5 pounds/pound
Spring Canola	1.6 pounds/pound

*Note: These residue estimates do not apply to forage crops.

TYPICAL FIELD OPERATIONS

Aerator, field surface, ground driven	Drill or air seeder, double disk
Aerial Seeding	Drill or air seeder, double disk opener, w/ fertilizer openers
Bale straw or residue	Drill or air seeder, double disk, w/ fluted coulters
Bed shaper	Drill or air seeder, offset double disk openers
Bed shaper, 12in	Drill, air seeder, sweep or band opener
Bedder, hipper, disk hiller	Drill, deep furrow 12 to 18 in spacing
Bedder, hipper hiller 12 in high	Drill, heavy, direct seed, double disk opener
Bedder, hipper, hiller 15 in high	Drill, heavy, direct seed, double disk opener w/ row cleaners
Bedder, hipper, hiller 18 in high	Drill, semi-deep furrow 12 to 18 in spacing
Burn residue	Fertilizer application, anhyd knife 12 in
Chisel, st. pt.	Fertilizer application, deep plcmt hvy shank
Chisel, st. pt. 12 in deep	Fertilizer application, surface broadcast
Chisel, st. pt. 15 in deep	Fertilizer application, anhyd knife 30 in
Chisel, sweep shovel	Fertilizer application, strip-till 30 in
Chisel, twisted shovel	Furrow diker
Cultipacker, roller	Furrow shaper, torpedo
Cultivator, field 6-12 in sweeps	Graze, continuous
Cultivator, field w/ spike points	Graze, intensive rotational
Cultivator, hipper, disk hiller on beds	Graze, rotational
Cultivator, off bar w/ disk hillers on beds	Graze, stubble or residue
Cultivator, row – 1 st pass ridge till	Harrow, coiled tine
Cultivator, row – 2 nd pass ridge till	Harrow, heavy
Cultivator, row 1 in ridge	Harrow, rotary
Cultivator, row 3 in ridge	Harrow, spike tooth
Cultivator, ro, high residue	Harrow, tine, on beds
Disk, offset, heavy	Harvest, grass or legume seed, leave forage
Disk, offset, heavy 12 in depth	Harvest, grass seed, remove forage
Disk, offset, heavy 15 in depth	Harvest, hay, grass
Disk, tandem heavy primary op.	Harvest, hay, legume
Disk, tandem light finishing	Harvest, hay, no regrowth
Disk, tandem secondary op.	Harvest, small grains, corn, peas, canola, mustard
Drill or air seeder single disk openers 7-10 in space	Harvest, legume seed, remove forage
Drill or air seeder, hoe opener in hvy residue	
Drill or air seeder, hoe/chisel openers 6-12 in space	

Harvest, root crops, digger	Roller, smooth
Harvest, silage	Rotary hoe
Harvest, snapper header	Rototiller, field
Harvest, stripper header	Rototiller, field, add residue
Knife, windrow dry beans	Rototiller, row cult add residue
Land plane	Rototiller, row cultivator
Lister, 40 in	Seedbed finisher
Manure injector	Shredder, flail or rotary
Manure spreader	Shredder, rotary, regrow veg
Mower, swather, windrower	Shredder, rotary, remove residue
Mulch treader	Sprayer, kill weeds, volunteer for reduced/no till
Para-plow or para-till	Sprayer, post emergence
Permeable weed barrier applicator	Strip-tiller w/ middlebuster on beds
Planter, double disk opener	Subsoiler
Planter, double disk opener w/ fluted coulters	Subsoiler bedder (ripper/hipper)
Planter, double disk opener, 18 in rows	Subsoiler ripper, 24 to 40 in deep
Planter, in-row subsoiler	Sweep plow 20-40 in wide
Planter, small veg seed	Sweep plow wider than 40 in w/ mulch treader
Planter, strip till	Sweep plow, wider than 40 in
Planter, transplanter, vegetable	Water mulch; off
Planter, transplanter, vegetable, no-till	Water mulch; on
Planting, broadcast seeder	
Plastic mulch applicator 100 percent cover	
Plastic mulch applicator 40 percent cover	
Plastic mulch applicator 75 percent cover	
Plastic mulch, 05 percent removal	
Plastic mulch, 10 percent removal	
Plastic mulch, 25 percent removal	
Plastic mulch, 50 percent removal	
Plastic mulch, remove	
Plow, disk	
Plow, moldboard	
Plow, moldboard, conservation	
Plow, moldboard, up hill	
Plow, reversible	
Pruning	
Rodweeder	
Roller, corrugated packer	
Roller, on beds	
Roller, residue	

Sample Records

Table 2. Field Characteristics and Typical Crop Rotation Sequence

Tract Number	Field Number or Name	Acres	TYPICAL ROTATION SEQUENCE									
			YR1	YR2	YR3	YR4	YR5	YR6	YR7	YR8	YR9	YR10
100	1	50.4	Barley	Winter Wheat	Field Pea	Sunflower						
100	2	100.6	Barley	Winter Wheat	Field Pea	Sunflower						
501	1	78.0	Alfalfa	Alfalfa	Alfalfa	Alfalfa	Fallow	Spring Wheat				
501	2	150.2	Alfalfa	Alfalfa	Alfalfa	Alfalfa	Fallow	Spring Wheat				

Table 3. Crop and Field Operation Records

Tract and Field Number: 100, Field 1								
Year	Crop Grown (Or indicate if fallow)	Operation and Equipment Used	Date of Operation	Average Yield per Acre	Estimated Residue per Acre	Was residue removed? If yes, removal method and yield?	Irrigation Application?	Comments
2005	Winter Wheat	Seeding, Air Seeder, Hoe/chisel openers 6- to 12-inch spacing	9/5/2004					
2005		Fertilizer Application, * See nutrient records	6/1/2005					
		Spray Operation, Post Emergence, Aerial Application, *See pest records	6/1/2005					Heavy Russian Thistle and Bindweed.
2005		Harvest	8/5/2005	35 Bushels	3780 lbs/acre	No	None.	Droughty June. Wet August. Low protein.

