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Install - Remove Sediment Control Barrier	Burn residue, mod. high intensity	Coulter tiller and spike harrow	Disk, single gang
Add PAM	Burn residue, moderate intensity	Coulter tiller, 10 degree angle, coiled tine harrow, rolling basket	Disk, tandem heavy primary op.
Add mulch	Burn sugarcane	Cover crop underseeder	Disk, tandem heavy primary op., roller, smooth
Aerator, field surface, ground driven	Burrowing, heavy, Prairie dog	Cultipacker, roller	Disk, tandem light finishing
Aerator, field surface, ground driven 0 degree offset	Burrowing, light, Prairie dog	Cultivate, manually	Disk, tandem secondary op.
Aerator, field surface, ground driven 10 degree offset	Burrowing, moderate, Prairie dog	Cultivate, manually, low intensity	Do all
Aerator, field surface, ground driven 5 degree offset	Chisel plow, coulter, st. pts.	Cultivate, manually, moderate intensity	Do all, on beds
Aerator, single drum, lugs, angle 0	Chisel plow, coulter, st. pts., cover disks	Cultivate, rows manually	Dozer track walking
Aerator, tandem drum, lugs, angle 10	Chisel plow, coulter, st. pts., cover disks, ring basket	Cultivator, between beds, add residue	Drill or air seeder single disk openers 7-10 in spac.
Aerator, tandem drum, lugs, angle 5	Chisel plow, coulter, sweeps	Cultivator, field 6-12 in shovels C	Drill or air seeder single disk openers, + fert. opns 7-10 in spac.
Aerial interseeding	Chisel plow, coulter, twst. pts.	Cultivator, field 6-12 in sweeps	Drill or air seeder tee slot openers 7-10 in spac.
Aerial seeding	Chisel plow, coulter, twst. pts., cover disks	Cultivator, field 6-12 in sweeps, coil tine har	Drill or air seeder, combo field cult, dd openers
BFM applicaton	Chisel plow, disk, st. pts.	Cultivator, field w/ spike points	Drill or air seeder, combo single disk-hoe openers, 10 in spac
Bale Corn husk, cob and chaff windrows	Chisel plow, disk, st. pts., cover disks	Cultivator, field w/ spike points, coil tine har	Drill or air seeder, hoe opener in hvy residue
Bale Corn stalk strips	Chisel plow, disk, twst. pts.	Cultivator, flame	Drill or air seeder, hoe opener in hvy residue w/ fert openers
Bale combine windrows	Chisel plow, disk, twst. pts., cover disks	Cultivator, hipper, disk hiller on beds	Drill or air seeder, hoe/chisel openers 12-15 in spac.
Bale corn stover	Chisel, 12-16 in. low crown sweep 3 to 4 in. depth	Cultivator, off bar w/disk hillers on beds	Drill or air seeder, hoe/chisel openers 12-15 in spac. w/ fert openers
Bale straw or residue	Chisel, st. pt.	Cultivator, rotary	Drill or air seeder, hoe/chisel openers 6-12 in spac.
Bed shaper	Chisel, st. pt. 12 in deep	Cultivator, rotary on beds	Drill or air seeder, hoe/chisel openers 6-12 in spac. w/fert openers
Bed shaper high disturbance	Chisel, st. pt. 15 in deep	Cultivator, rotary on beds, Bedder, hipper, disk hiller	Drill or air seeder, paired, opposing single disk openers 6x9 in spac.
Bed shaper, 12 in	Chisel, st. pt. 5 in deep	Cultivator, row - 1st pass ridge till	Drill or airseeder, dble disk opnr w/ fluted coult 5x10 paired row
Bed shaper, 12 in, low flattening	Chisel, st. pt. 5 in deep, coil tine har	Cultivator, row - 2nd pass ridge till	Drill or airseeder, double disk
Bed shaper, low flattening, high disturbance	Chisel, st. pt., coil tine har	Cultivator, row 1 in ridge	Drill or airseeder, double disk
Bedder, hipper, disk hiller	Chisel, sweep shovel	Cultivator, row 3 in ridge	Drill or airseeder, double disk opener, w/ fert openers
Bedder, hipper, hiller 12 in high	Chisel, sweep shovel 5 in. depth	Cultivator, row between beds	Drill or airseeder, double disk, w/ fluted coulters
Bedder, hipper, hiller 15 in high	Chisel, sweep shovel 5 in. depth, coil tine har	Cultivator, row, high residue	Drill or airseeder, offset double disk openers
Bedder, hipper, hiller 18 in high	Chisel, sweep shovel, coil tine har	Detasseler, seed com	Drill, air seeder, 4 inch stealth openers on 12 in spac
Begin growth	Chisel, twisted shovel	Disk, inter row strips	Drill, air seeder, 6 inch stealth openers on 12 in spac
Begin new growth	Chisel, twisted shovel	Disk, offset, heavy	Drill, air seeder, sweep or band opener
Begin weed growth	Chisel, twisted shovel, coil tine har	Disk, offset, heavy	Drill, deep furrow 12 to 18 in spacing
Bulldozer, clearing/cutting	Chisel, winged with furrow diker	Disk, offset, heavy 12 in depth	Drill, deep furrow 7 to 10 in spacing
Bulldozer, clearing/cutting light	Chop veg. with machete	Disk, offset, heavy 15 in depth	Drill, double disk, 7-8 in packer C
Bulldozer, filling/leveling	Continuous disturbance and smoothing	Disk, offset, heavy, roller, corr packer	Drill, double disk, orchard vineyard cover
Burn residue	Coulter caddy, dbl gang w/ fluted coulters	Disk, offset, heavy, roller, smooth	Drill, heavy, direct seed, dbl disk opnr
Burn residue, high intensity	Coulter caddy, w/ fluted coulters	Disk, oxen, strip 30 pct disturb	Drill, heavy, direct seed, dbl disk opnr w/row cleaners
Burn residue, low intensity	Coulter caddy, with smooth coulters	Disk, oxen, strip 60 pct disturb	Drill, heavy, direct seed, dbl disk opnr w/row cleaners

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Drill, range	Graze, continuous, heavy hoof traffic	Harrow, spike tooth, cover seed	Harvest, hay, grass
Drill, semi-deep furrow 12 to 18 in spacing	Graze, continuous, light hoof traffic	Harrow, tine, on beds	Harvest, hay, legume
Drip tape extractor	Graze, continuous, moderate hoof traffic	Harvest, banana	Harvest, hay, no regrowth
Drip tape injection shank	Graze, intensive rotational	Harvest, banana remove stem	Harvest, hops
Drip tape injection shank on beds	Graze, rotational	Harvest, broccoli and cauliflower	Harvest, kenaf
Drip tape injector bed shaper	Graze, stubble or residue	Harvest, cabbage and head lettuce	Harvest, killing crop 10pct standing stubble
Erosion blanket applicator	Graze, stubble or residue 25 pct	Harvest, cabbage and head lettuce, hand	Harvest, killing crop 20pct standing stubble
Fert applic. anhyd knife 12 in	Graze, stubble or residue 50 pct	Harvest, combine windrows	Harvest, killing crop 20pct standing stubble, release cover crop
Fert applic. anhyd knife 12 in, coil tine har	Graze, stubble or residue 75 pct	Harvest, corn cabbage or earlage	Harvest, killing crop 30pct standing stubble
Fert applic. broadcast by hand	Grazing set season, time on, time off, rate	Harvest, corn grain and 60pct of residue mass	Harvest, killing crop 50pct standing stubble
Fert applic. coultter, high press. inject 12 in	Grazing, continuous, high traffic, set season, rate	Harvest, corn grain and cobs	Harvest, killing crop 50pct standing stubble, release cover crop
Fert applic. deep plomt hvy shnk	Grazing, continuous, set season, rate	Harvest, corn grain and part of stover, 14 inch stubble	Harvest, killing crop 60pct standing stubble
Fert applic. shank low disturbance, 12 in	Grazing, continuous, severe hoof traffic, set season, rate	Harvest, corn silage with cover crop	Harvest, killing crop 70pct standing stubble
Fert applic. shank low disturbance, 12 in, coil tine har	Grazing, continuous, time on, time off, rate	Harvest, cotton	Harvest, knife, windrow, combine
Fert applic. shank low disturbance, 15 in spacing	Grazing, frost kill	Harvest, cotton and shred	Harvest, lavender bundles
Fert applic. side-dress, liquid	Grazing, set end ht, and rate	Harvest, cranberries	Harvest, leafy veg.
Fert applic. surface broadcast	Grazing, set end ht, and time on	Harvest, cut flowers	Harvest, leafy veg. mechanical
Fert applic., aerial	Grazing, set harvest portion and time on	Harvest, dig root crops 12 in depth res. buried	Harvest, legume seed, remove forage
Fert applic. anhyd knife 15 in spacing	Grazing, set harvest portion, and removal rate	Harvest, dig root crops 12 in depth res. on surf	Harvest, onions
Fert applic. anhyd knife 15 in spacing high disturbance	Grazing, set season, harvest portion, removal rate and start mass	Harvest, dig root crops res. buried	Harvest, onions with rodweeder bulb digger
Fert applic. anhyd knife 15 in spacing high disturbance, coil tine har	Grazing, set season, start ht, end ht, rate	Harvest, dig root crops res. buried 10in ridge	Harvest, orchard and nut crops
Fert applic. anhyd knife 15 in spacing, coil tine har	Grazing, set season, start ht, end ht, rate, then mowed	Harvest, dig root crops res. on surf	Harvest, peanut digger
Fert applic. anhyd knife 30 in	Grazing, set season, start ht, end ht, time on	Harvest, forage sorghum	Harvest, plantains, stalks left
Fert applic. anhyd knife 30 in, bedded	Grazing, set season, start ht, end ht, time on, then mowed	Harvest, fruit crops	Harvest, plantains, stalks removed
Fert applic. anhyd, liq, dry, minimal dist. precision placmnt, 30 in	Grazing, set season, harvest portion, start mass, and time on	Harvest, grain, grow cover	Harvest, residue, forage chopper, complete
Fert applic. anhyd, low dist. single disk opener, 30 in	Harrow, coiled tine	Harvest, grass or legume seed, burn forage	Harvest, residue, forage chopper, incomplete
Fert applic. double shot knife 15 in spacing high disturbance	Harrow, coiled tine weeder	Harvest, grass or legume seed, leave forage	Harvest, residue, forage chopper, intermediate
Fert applic. shallow anhyd knife 38 in	Harrow, disk chain	Harvest, grass or legume seed, remove forage	Harvest, rootcrops, manually
Fert applic. single disk opener, low disturbance, 30 inch spac	Harrow, heavy	Harvest, grass seed, remove forage	Harvest, rootcrops, manually, 25pct of field disturbed
Fert applic. sugarcane	Harrow, heavy on heavy resdue	Harvest, hand pick	Harvest, rootcrops, manually, 33pct of field disturbed
Fert applic., strip-til 30 in	Harrow, rolling	Harvest, hand pick	Harvest, rootcrops, manually, 50pct of field disturbed
Furrow diker	Harrow, rotary	Harvest, hand pick multiple times	Harvest, rootcrops, manually, one third
Furrow shaper, torpedo	Harrow, rotary paddle wheel and spike gangs	Harvest, hand pick vegetables	Harvest, seed heads by hand
Germination of dormant seeding	Harrow, rotary, light, fluff fragile residue	Harvest, hand pull	Harvest, silage
Graze, continuous	Harrow, rotary, light, fluff residue	Harvest, hay set date	Harvest, silage 3ft stubble
Graze, continuous overgrazing	Harrow, spike tooth	Harvest, hay set season, start and end ht	Harvest, small grain haylage 5 in ht

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Harvest, small grain silage with cover crop	Lister, 30 in	Planter, double disk opnr, 15 inch row spacing	Plastic hoop tunnel installation 50 percent cover
Harvest, small grain, release understory	Lister, 30 in with fert applic.	Planter, double disk opnr, 18 in rows	Plastic hoop tunnel installation 75 percent cover
Harvest, snapper header	Lister, 40 in	Planter, double disk opnr, 40 in rows	Plastic hoop tunnel installation on beds 50 percent cover
Harvest, sprig rototiller digger	Lister, 40 in with fert applic.	Planter, furrow opener in 4 inch deep furrows	Plastic hoop tunnel installation on beds 75 percent cover
Harvest, stalk chopping corn header	Log skidder	Planter, furrow opener in 6 inch deep furrows	Plastic hoop tunnel removal on beds
Harvest, stripper header	Manure injector, liquid high disturb.30 inch	Planter, furrow opener in 8 inch deep furrows	Plastic hoop tunnel, removal
Harvest, sugarcane, after burning	Manure injector, liquid low disturb.15 inch	Planter, in-row subsoiler	Plastic mulch applic. 40 inch beds 100 percent cover
Harvest, sugarcane, after burning, no regrowth	Manure injector, liquid low disturb.30 inch	Planter, in-row subsoiler low disturbace	Plastic mulch applic. 40 inch beds 75 percent cover
Harvest, sugarcane, modern	Manure injector, low disturb.15 inch	Planter, in-row subsoiler w/ residue mgr.	Plastic mulch applic. 48 inch beds 100 percent cover
Harvest, sugarcane, old type	Manure injector, low disturb.30 inch	Planter, narrow slot w/smooth or rippled coulter	Plastic mulch applic. 48 inch beds 80 percent cover
Harvest, sugarcane, root rake	Manure spreader, liquid	Planter, potato, 6 in beds	Plastic mulch applic. 54 inch beds 100 percent cover
Harvest, timber remove tops	Manure spreader, slurry	Planter, ridge till	Plastic mulch applic. 54 inch beds 80 percent cover
Harvest, tobacco, burley	Manure spreader, solid and semi-solid	Planter, ridge till	Plastic mulch applic. 64 inch beds 100 percent cover
Harvest, tobacco, burley, mechanical harvester	Manure, liquid irrigation	Planter, runner opener	Plastic mulch applic. 64 inch beds 85 percent cover
Harvest, tobacco, flue cured	Middle buster, digger	Planter, small veg seed	Plastic mulch applicator 100 percent cover
Harvest, tobacco, flue cured, 1 pass mechanical	Mow pasture	Planter, small veg seed on 8 inch high beds	Plastic mulch applicator 40 percent cover
Harvest, tobacco, flue cured, selective mechanical harvest	Mower, swather, on stubble	Planter, sprig conventional	Plastic mulch applicator 50 percent cover
Harvest, tree buck	Mower, swather, on stubble 4in	Planter, sprig, no-till	Plastic mulch applicator 75 percent cover
Harvest, tree length logs	Mower, swather, windrower	Planter, sprigs on beds	Plastic mulch, 05 percent removal
Harvest, tree pulpwood cut	Mulch crimper	Planter, strip till	Plastic mulch, 10 percent removal
Harvest, tree, Christmas grow cover	Mulch treader	Planter, strip till, 22 inch	Plastic mulch, 25 percent removal
Harvest, trees, chipper	No operation	Planter, strip till, shallow subsoiler	Plastic mulch, 50 percent removal
Harvest, vine crops	Para-plow or para-till	Planter, strip till, subsoiler	Plastic mulch, remove
Harvest, vine crops, mechanical	Pasture renovator	Planter, sugarcane	Plastic weed barrier 40 inch beds 100 percent cover
Harvest, windrows	Paving	Planter, transplant, vegetable	Plastic weed barrier 40 inch beds 50 percent cover
Harvest, woody biomass	Permeable weed barrier applicator	Planter, transplant, vegetable on 8 inch high beds	Plastic weed barrier 40 inch beds 75 percent cover
Hilling, manual hoe	Planter, RELAY INTERCROP, double disk opnr w/fluted coulter	Planter, transplant, vegetable, no-till	Plastic weed barrier applicator 100 percent cover
Hydro-seeder	Planter, double disk opener on 12 inch high beds	Planter, tree, mechanical transplant	Plastic weed barrier applicator 50 percent cover
Install Compost Sock	Planter, double disk opener on 15 inch high beds	Planting, broadcast interseeder	Plastic weed barrier applicator 75 percent cover
Install Silt Fence	Planter, double disk opener on 18 inch high beds	Planting, broadcast seeder	Plow, deep, large, moldboard
Install Straw Bale	Planter, double disk opener on 8 inch high beds	Planting, hand 10 percent dist.	Plow, disk
Kill crop	Planter, double disk opnr	Planting, hand 5 percent dist.	Plow, moldboard
Knife, windrow dry beans	Planter, double disk opnr w/fluted coulter	Planting, manual	Plow, moldboard 10 inch depth
Land plane	Planter, double disk opnr w/fluted coulter with starter fertilizer	Planting, manual on 8 inch high beds	Plow, moldboard 6-7 inch depth
Land plane, orchard and vine crops	Planter, double disk opnr w/fluted coulter, 15 inch row spacing	Planting, no-till manually	Plow, moldboard, conservation
Laser Land leveler	Planter, double disk opnr with starter fertilizer	Plastic hoop tunnel installation 100 percent cover	Plow, moldboard, up hill

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cover	Plow, oxen 12 in ridge	Rotary hoe, residue	Shredder, rotary, regrow veg	Subsoil disk ripper, roller smooth
cover	Plow, oxen 18 in ridge	Rototiller, field	Shredder, rotary, remove residue	Subsoiler
	Plow, oxen on 6 in ridge	Rototiller, field, add residue	Slip plow 48 to 60 in. deep	Subsoiler bedder (ripper/hipper)
	Plow, oxen, strip 30 pct disturb	Rototiller, on beds	Sod cutter	Subsoiler leveler
	Plow, oxen, strip 60 pct disturb	Rototiller, row cult add residue	Sod installation	Subsoiler ripper, 24 to 40 in. deep
	Plow, reversible	Rototiller, row cultivator	Spader	Subsoiler, 12 foot spacing
er	Power mulcher bed conditioner	Sand fighter	Spader, shallow depth	Subsoiler, in row
r	Pruning	Scalper, tree	Spray, glyphosate on resistant growing crop	Subsoiler, in row strip conditioner
er	Rake or windrower	Scarifier	Sprayer, backpack, kill vegetation	Subsoiler, in row strip conditioner, 40 in row
r	Reel disk vertical tiller	Scraper/pan/grader, clearing/cutting	Sprayer, backpack, post emergence	Subsoiler, inline heavy shanks with coultter caddy
er	Regrow	Seedbed conditioner, coil tine har, ring bskt	Sprayer, defoliant	Subsoiler, inline with coultter caddy
er	Remove Compost Sock	Seedbed conditioner, coultter caddy, coil tine har	Sprayer, fungicide	Subsoiler, ring stlk chpr, roller, mulch treader
r	Remove Silt Fence	Seedbed conditioner, coultter caddy, coil tine har, ring bskt	Sprayer, fungicide and insecticide tank mix	Subsoiler, wide spacing
r	Remove Straw Bale	Seedbed conditioner, coultter caddy, field cult, spike harrow	Sprayer, growth regulator	Subsoiler, Stalk chopper, rolling
	Residue conditioner, coil tine har, ring bskt	Seedbed conditioner, coultter caddy, rtry har	Sprayer, insecticide post emergence	Sweep plow 20-40 in wide
	Residue removal by wind	Seedbed conditioner, coultter caddy, rtry har, ring bskt	Sprayer, kill cover in growing crop	Sweep plow wider than 40 in w/ mulch treader
	Residue, row cleaner	Seedbed conditioner, coultter caddy, spk har	Sprayer, kill cover in growing vegetables	Sweep plow wider than 40 in w/ mulch treader
	Rice residue stomper	Seedbed conditioner, coultter caddy, spk har, ring bskt	Sprayer, kill crop	Sweep plow, under bed
	Ripper, intra row	Seedbed finisher	Sprayer, kill strips	Sweep plow, wider than 40 in
	Ripper, intra row and furrow diker	Seedbed finisher	Sprayer, post emergence	Sweep, single under row
	Road grader	Seedbed finisher, fld cult, chop, spk har, ring bskt	Sprayer, post emergence and fert. tank mix	Sweep, single under row, regrow perennial
	Rodweeder	Seedbed finisher, fld cult, coil tine har, rolling bskt	Sprayer, pre-emergence	Tree spade, holes left
	Rodweeder, harrow, spike tooth	Seedbed finisher, fld cult, mlch trdr	Stalk chopper, rolling	Tree spade, holes plugged
	Roller harrow	Seedbed finisher, fld cult, rtry har	Stalk chopper, rolling, light disturbance	Water mulch; off
	Roller, corrugated packer	Seedbed finisher, fld cult, coil tine har, rolling bskt	Stalk chopper, rolling, on ridgetill ridges	Water mulch; on
	Roller, corrugated packer 6 by 16	Seedbed finisher, sngl disk, roty har	Stalk chopper, rolling, strip	Weed control, hoeing in row
	Roller, crimp, covercrop	Seedbed finisher, sngl disk, fld cult, coil tine har	Stalk chopper, rotary	Weed control, manual hoe
	Roller, on beds	Seeder, corrugated packer	Stalk chopper, strip rotary	Weed control, sting trimmer
	Roller, residue	Seeder, dormant, corrugated packer	Stalk puller	Weeder, finger weeder
	Roller, residue incorporator	Seeder, high density vegetable	Stalk puller high disturbance	Winter kill annual crop
	Roller, row shaper	Shred residue, 6 inch stubble	Stalk slicer	default
	Roller, smooth	Shred standing residue in live cover crop	Stop Grazing	temp
	Rolling basket incorporator	Shredder, flail or rotary	Strip till bed conditioner	
	Root rake	Shredder, flail or rotary, add other cover	Striptiller w/middlebuster on beds	
	Rotary hoe	Shredder, flail or rotary, filberts and pecans	Subsoil disk ripper	
	Rotary hoe, on heavy soil	Shredder, rotary mower	Subsoil disk ripper, coultter smooth, ring bskt	

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