

**NATURAL RESOURCES CONSERVATION SERVICE
CONSERVATION PRACTICE SPECIFICATION**

SURFACE ROUGHENING

(Ac.)

CODE 609

RANDOM ROUGHNESS TABLE

The following table is to be used to select the inches of random roughness created by tillage implements in NM.

Operation (name)	Random Roughness (in)	Operation (name)	Random Roughness (in)
Aerator, field surface, ground driven	0.40	Manure Injector, knife, 30" spacing	0.60
Bedder/Hipper/Lister 5"x30"	0.60	Mower, flail or rotary	0.25
Bedder/Hipper/Lister 8"X40"	0.60	Mulch treader, backward	0.30
Chisel, straight points	1.00	Mulch treader, forward	0.40
Chisel, sweeps, 9-16" sp	0.70	Packer, roller	0.30
Chisel, twisted points	1.25	Para-plow or Para-till	0.40
Chisel-disk, straight points	0.70	Planter, DD opener, 18 in sp	0.40
Chisel-disk, twisted points	0.80	Planter, DD opener, 30 in sp	0.40
Chisel-disk-harrow-packer (comb)	0.50	Planter, DD opener, w/fluted coulters	0.40
Corrugation	0.40	Planter, potato, bedded	0.30
Cultivator, field, spike	0.60	Planter, potato, flat	0.30
Cultivator, field, sweeps, 9"-16"	0.50	Planter, ridge-till or bedded	0.40
Cultivator, rowcrop, 1 in ridge	0.60	Planter, small seed, row crop	0.24
Cultivator, rowcrop, 3 in ridge	0.60	Planter, strip-till, fluted coulters	0.40
Cultivator, rowcrop, ridge till, pass 1	0.50	Planter, transplanter	0.30
Cultivator, rowcrop, ridge till, pass 2	0.50	Planting, broadcast	0.25
Disk, offset, heavy	0.50	Plastic mulch, apply, 50% cover	0.30
Disk, tandem, finishing	0.40	Plastic mulch, remove	0.30
Disk, tandem, heavy, primary op.	0.70	Plow, disk	1.50
Disk, tandem, secondary op.	0.50	Plow, moldboard, conservation	1.50
Drill or Air seeder, chisel or hoe opener	0.50	Plow, moldboard, conventional	1.00
Drill or Air seeder, DD opener	0.30	Plow, moldboard, rough & uphill	2.10
Drill or Air seeder, DD, w/fert opener	0.40	Plow, reversible plow (switch)	0.50
Drill or Air seeder, DD, w/fluted coulters	0.30	Rodweeder, plain, early	0.40
Drill or Air seeder, hoe, hvy residue	0.50	Rodweeder, plain, late	0.25
Drill or Air seeder, single disk openers	0.30	Roller, on beds	0.30
Drill or Air seeder, single disk openers	0.30	Roller-Harrow, center cultivator	0.30
Drill, air seeder, sweep/band opener	0.60	Rotary Hoe	0.40
Drill, deep furrow, 14 in sp	0.50	Rototiller, field F	0.40
Drill, hvy, direct seed, DD opener	0.40	Sand fighter	0.40
Drill, hvy, direct seed, DD, w/rowcleaner F	0.40	Sprig harvester	0.40

Conservation practice standards are reviewed periodically, and updated if needed. To obtain the current version of this standard, contact the Natural Resources Conservation Service.

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Random Roughness Table cont.

Operation (name)	Random Roughness (in)	Operation (name)	Random Roughness (in)
Drill, semi-deep furrow	0.40	Sprig planter	0.40
Fertilizer applicator, anhyd, knife	0.50	Stubble busting, chopping, shredding	0.25
Fertilizer applicator, heavy shank	1.00	Subsoiler, 16-24 inch spacing	1.00
Fumigation, subsoil-disk-pack	0.30	Subsoiler, 30-36 inch spacing	1.00
Furrow Diker, row crop	0.50	Subsoiler-bedder, (ripper/hipper)	1.00
Harrow, rotary, spike	0.40	Sweep plow, 20-40 in sp	0.40
Harrow, spike tooth	0.30	Sweep plow, wide, >40 in sp	0.40
Harrow, spring tooth	0.40	Sweep plow, wide, w/treader	0.30
Harrow, tine tooth	0.30	Transplanter	0.40
Harrow, tine, on beds	0.30	Windrower or Swather	0.25
Land leveling, scraper, leveler, plane	0.30		