

US EPA ARCHIVE DOCUMENT

COMPILED STATE DOT COMPOST SPECIFICATIONS TABLES

'All' DOT Compost Specifications Chart

State	Compost Application(s)	Feedstock(s)	Application Rate	Compost Specifications Particle Size	pH	Moisture	Organic Matter (dry wt.)	Soluble Salts	Maturity/Stability	Nutrients/Other Elements	Temperature/Time	C/N	Inert Content (wt.)	Other
Alaska	backfill mix	plant waste	5 cu. ft. compost:1 cu. yd. soil	n/a	n/a	no visible free water or dust	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
California	mulch-SPECIAL PROVISION (decorative mulch and erosion control)	woody materials such as shrubs, tree trimmings or clean, processed wood products-may contain leaves and small twigs	3" to 6" on soil surface	1/2" to 3"	n/a	n/a	n/a	n/a	90 day curing period	n/a	56 deg. C for 15 consecutive days, with 5 turns	n/a	0.1% max.	n/a
	mulch for erosion control	green material consisting of chipped, shredded or ground vegetation or clean, processed recycled wood products or Class A, E.O. biosolids or a combination of green material and biosolids	project specific	screened through a 1/4" screen	n/a	35% maximum, or adjusted application to equal 35%	n/a	n/a	7 min. using Solvita test	n/a	135 deg. F for 15 consecutive days with 5 turns, followed by a minimum 90 day curing process. Biosolids must meet USEPA 40 CFR #503 Regs. for Class A, E.O. compost	n/a	same	n/a
Colorado	soil amendment	cow or sheep manure and wood residue	4 cu. yds. per 1,000 sq. ft.	1/2" max.	5.0 to 8.5	n/a	30% min.	n/a	n/a	n/a	140 deg. F for 70 to 90 days	20/1 to 30/1	n/a	non-offensive odor
	backfilling	same	0.5 cu. ft. per tree and 0.1 cu. ft. per shrub	same	same	n/a	same	n/a	n/a	n/a	same	same	n/a	same
Connecticut	turf establishment (soil amendment)-DRAFT	leaves and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, and soiled or non-recyclable paper	1/2" to 2"	< 25 mm, with twigs at 50 mm max.	5.5 to 8.0	35% to 60%	30% min.	4.0 mmhos/cm	6 min. using Solvita test	n/a	n/a	n/a	0.1% max.	no objectionable odor, no resemblance to feedstock
	soil erosion control -DRAFT	same	50 mm minimum	same	same	same	same	same	same	n/a	n/a	n/a	same	same
	backfill mix -DRAFT	same	1 part compost:2 parts soil	same	same	same	same	same	same	n/a	n/a	n/a	same	same
	topdressing -DRAFT	same	1/2"	same	same	same	same	same	same	n/a	n/a	n/a	same	same
Delaware	soil amendment-SPECIAL PROVISION	poultry litter	1"	100% passing a 1" screen	5.7 to 7.5	less than 40%	n/a	< 4.0 mmhos/cm	n/a	n/a	n/a	n/a	n/a	no noxious weed seeds
Florida	soil amendment	yard waste, yard waste and manure, municipal solid waste and biosolids	75 mm	project specific	project specific	n/a	project specific	4.0 mmhos/cm, but can be leached if above	n/a	n/a	n/a	n/a	n/a	must meet FLDEP rules for unrestricted distribution
	mulch	same	approx. 2"	1/2" to 6"	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	same FLDEP rules and shall contain no glass, plastic or metal shards
Georgia	soil additives (soil amendment)	organic materials	project specific	n/a	5.0 to 8.0	n/a	n/a	n/a	mature	n/a	n/a	n/a	n/a	dark brown or black color, no human pathogens, minimal odors
Idaho	mulch for erosion control	unspecified -specific suppliers listed	20 cu. yds./acre	n/a	n/a	n/a	n/a	n/a	5 min. using Solvita test	n/a	USEPA 40 CFR #503 Regs for Class A compost	n/a	n/a	n/a
Illinois	topsoil and compost (soil manufacturing) *specifications listed are for blended topsoil	organic waste	40% compost:60% soil	*majority shall pass a 1" screen	5.0 to 8.0	n/a	*1% to 10%	n/a	n/a	n/a	n/a	n/a	1.0% max. 4 mm max. size	must comply with IEPA health standards, no glass or metal shards
Iowa	soil amendment-SPECIAL PROVISION	source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, soiled and/or unrecyclable paper and biosolids	4"	< 1.0"	6.0 to 8.0	less than 60%	30% min.	< 5.0 mmhos/cm	n/a	n/a	n/a	n/a	n/a	n/a
Kansas	soil amendment and backfill	unspecified -specific suppliers listed	1 1/2"	1/2" or smaller	6.0 to 7.5	30% to 40%	less than 35%	< 5.0 mmhos/cm	6 or 7 using Solvita test	N = 0.8% or above, P = 1.0% or above	n/a	n/a	n/a	800 to 1,000 lbs./cu. yd. bulk density
Maine	soil amendment and backfill	source separated leaf and yard trimmings,	project specific	100% < 25 mm	4.5 to 8.0	n/a	35% min.	< 4.0 mmhos/cm	stability shall be > 5 as measured by	n/a	n/a	n/a	n/a	free from refuse, physical contaminants
	Aged wood waste is approved for use in an erosion control mix- mulch SPECIAL PROVISIONS	source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals and biosolids	project specific	100% passing 6", 70-85% passing .75"	5.0 to 8.0	n/a	20% to 100%	< 4.0 mmhos/cm	n/a	n/a	n/a	n/a	n/a	large portions of silt, clay or fine sands are not acceptable, organic portion must be fibrous and elongated
	same-erosion control mix - sediment barrier	same	project specific (minimum 12" high and 2' wide)	same	same	n/a	same	same	n/a	n/a	n/a	n/a	n/a	n/a
Maryland	soil amendment and backfill	biosolids, and source separated compost approved for distribution by the Maryland Dept. of Agriculture	project specific	max. of 90% passing 4.75 mm, max. of 25% passing .425 mm and max. of 2.2% passing .075 mm	6.0 to 7.5	30% to 55%	n/a	0 mmhos/cm for source separated & < 10 mmhos/cm for biosolids	"will not reheat upon stacking"	n/a	n/a	n/a	n/a	biosolids must be approved by the Maryland Dept. of the Environment
Massachusetts	organic soil additives (amendment)- DRAFT	biodegradable matter, including biosolids	up to 100 mm	25 mm max.	5.5 to 7.5	35% to 55%	40% min.	max. 4.0 mmhos/cm	6 using Solvita test, stability shall be > 10 as measured by the Dewar Self Heating test	n/a	USEPA 40 CFR #503 Regs for Class A compost	11 to 25:1	1.0% max.	no unpleasant odors
Michigan	compost specification (soil amendment)	yard clippings or other approved materials	project specific	3/4" maximum diameter	5.0 to 8.5	no visible free water or dust	10% to 50%	1.0 to 5.0 mmhos/cm	mature	n/a	USEPA 40 CFR #503 Regs for Class A compost	10 to 20:1	less than 1.0%	dark brown or black color, registered Mich. Dept. of Agriculture, no objectionable odor
	slope restoration-SPECIAL PROVISION	vegetative material and wood or bark	25 mm for seed, compost and tackifier mix	3 to 38 mm	5.5 to 8.0	30% to 35%	n/a	n/a	mature	n/a	n/a	n/a	n/a	n/a
Minnesota	turf establishment- grade 1 compost	animal derived material	project specific-typically 1" to 2"	10 mm max.	5.5 to 8.0	35% to 55% with a 700 to 1600 lbs./yd. bulk density	30% min.	max. 10.0 mmhos/cm	5 min. using Solvita test, 80% to 100% seed germination test scores,	NPK ratios of 2-2-1 to 4-4-2	a PFRP process must be used	6 to 20:1	3.0% max. at 4 mm	state Pollution Control and USEPA Part 503 C contaminant limits, registered for sale with the State of Minnesota apply to all 3 compost grades
	landscape planting- grade 2 compost	leaves and yard waste	project specific-typically 3" to 4"	19 mm max.	5.5 to 8.5	same, except max. bulk density can be 1600 lbs./yd.	same	same	same	n/a	same	same	same	same
	turf establishment- grade 3	80% leaves and yard waste, 10% animal manure	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1	same as grade 1
Montana	mulch on slopes-SPECIAL PROVISION	unspecified -specific suppliers listed	1,000 dry pounds/acre	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
New Hampshire	soil amendment-SPECIAL PROVISION	source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, and soiled or non-recyclable paper	2"	< 0.5"	6.0 to 8.0	35% to 60%	30% min.	n/a	"certified stable"	n/a	n/a	n/a	n/a	n/a
	backfill mix - SPECIAL PROVISION	same	3 cu. ft. of compost to 1 cu. ft. of loam	same	same	same	same	n/a	same	n/a	n/a	n/a	n/a	shall be relatively free of objects larger than 25 mm (1") in diameter
New Jersey	soil amendment	biosolids	project specific to raise soil organic matter content to 2.75%	n/a	6.0 min.	55% max.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	must be NJDEP approved
New York	soil amendment	source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, and soiled or non-recyclable paper and biosolids	project specific to raise soil organic matter content to 2% to 20%	< 12.5 mm	6.0 to 8.0	35% to 60%	30% min.	< 4.0 mmhos/cm	"must be stable according to current test methods"	n/a	n/a	n/a	n/a	must meet NYDEC regulations
North Carolina	project procurement specifications (RFO) for an organic fertilizer/soil amendment	poultry litter	project specific	100% must pass a 5/8" screen	5.7 to 7.5	40% max.	n/a	< 40 mmhos/cm	minimal reheating upon stockpiling	must be within % of claimed nutrients	composting method dependent	n/a	n/a	registered as a fertilizer with the NC Department of Agriculture, Cu and Zn limits (2 lbs./ton)
Ohio	backfill mix	source separated yard waste	1/3 by volume	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Ohio Class IV compost is the only permitted product