

US EPA ARCHIVE DOCUMENT

COMPILED STATE DOT COMPOST SPECIFICATIONS TABLES

DOT 'In the Soil' 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
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
	backfill mix -DRAFT topdressing -DRAFT	same	1 part compost:2 parts soil 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
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
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, food scraps, food processing residuals, manure and/or other agricultural residue and biosolids	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 the Dewar Self Heating test	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	< 5.0 mmhos/cm for source separated and < 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
Minnesota	turf establishment- grade 1 compost landscape planting- grade 2 compost turf establishment- grade 3	animal derived material leaves and yard waste 90% leaves and yard waste, 10% animal manure	project specific-typically 1" to 2" project specific-typically 3" to 4" same as grade 1	10 mm max. 19 mm max. same as grade 1	5.5 to 8.0 5.5 to 8.5 same as grade 1	35% to 55% with a 700 to 1600 lbs./yd. bulk density same, except max. bulk density can be 1600 lbs./yd. same as grade 1	30% min. same same as grade 1	max. 10.0 mmhos/cm same same as grade 1	5 min. using Solvita test, 80% to 100% seed germination test scores, same same same as grade 1	NPK ratios of 2-2-1 to 4-4-2 n/a same as grade 1	a PFRP process must be used same same as grade 1	6 to 20:1 same same as grade 1	3.0% max. at 4 mm same same as grade 1	state Pollution Control and USEPA Part 503 C contaminant limits, registered for sale with the State of Minnesota apply to all 3 compost grades
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. yd. of loam	same	same	same	same	n/a	same	n/a	n/a	n/a	see other	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 (RFP) 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	< 4.0 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
Oregon	soil conditioner cultivated planting area non-cultivated planting area soil lawn and seeded areas-	yard debris mushroom compost yard debris or mushroom compost yard debris or mushroom compost	project specific project specific 50 mm minimum project specific: 0.5 cu. m/100 sq. m	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	57 degrees C for 15 days n/a	n/a n/a n/a	n/a n/a n/a	max. of 10% bacteria and fungus
Pennsylvania	soil amendment soil amendment soil amendment backfill mix	paper mill compost sewage sludge agricultural, food and yard waste all composts listed above	not specified, project specific not specified, project specific not specified, project specific 25% by volume	13 mm max. 10 mm to 80 mm pass 25 mm screen	6.5 to 7.5 8.0 min. 5.5 to 8.0	n/a n/a 35% to 55%	70% min. 50% min. n/a	n/a n/a < 3.0 mmhos/cm	n/a n/a n/a	n/a "heavy" metal limits USEPA Part 503 Class A, E.O. limits	n/a 21 days composting + 30-60 curing n/a	n/a n/a n/a	n/a n/a < 1.0%	25% ash max., weed free, 100% water holding capacity, produced by PADEP permitted site
South Carolina	backfill mix	animal manure, mushroom compost or other types as specifically approved	25% by volume	n/a	n/a	n/a	n/a	n/a	should not cause "burning" of plants	n/a	n/a	n/a	n/a	n/a
Texas	Canna planting manufactured topsoil	leaves and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, and soiled and/or unrecyclable paper and biosolids	6" 5% to 30% by volume	n/a 100% passing 1" screen	n/a 5.5 to 8.5	n/a n/a	n/a 30% min.	n/a < 5.0 mmhos/cm	n/a "finished" per Solvita test	n/a n/a	n/a USEPA 40 CFR #503 Regs for Class A compost	n/a n/a	n/a no visible content	n/a must meet TX Natural Resources Conservation Commission health and safety standards
Utah	soil amendment- SPECIAL PROVISION	animal manures, straw, yard trimmings, sawdust or other forest wood products	50 mm	4 mm max. thickness	5.5 to 7.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	no visible content	dark brown to black, no offensive odors
Virginia	soil amendment- DRAFT	yard waste	2"	100% passing 1" screen	5.5 to 8.0	35% to 55%	n/a	3.0 mmhos/cm or less	1 year old min., "stable, must demonstrate enhanced plant growth"	USEPA Part 503 Class A metal limits, N=0.5-2.5%, P=0.2-2.0%, K=0.3-1.5%	n/a	n/a	n/a	n/a
Washington	soil amendment	minimum of 65% plant waste by volume, a maximum of 35% of other approved organic waste and/or biosolids	project specific - typically 3"	100% passing 25 mm screen	5.5 to 8.5	n/a	30% min.	< 4.0 mmhos/cm	"stable", 5 min. using Solvita test	n/a	n/a	n/a	< 1.0%	meeting WA State Dept. of Ecology standards, Grade AA compost can be applied within 30' of wetlands and stream sides, Grade A is for use on all other locations
Wisconsin	backfill mix	cattle, sheep or poultry manure or other organic material acceptable to WIDOT	1 part compost to 6 parts topsoil	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Wyoming	organic fertilizer soil amendment- SPECIAL PROVISION	animal manures - supplier listed same	project specific project specific	n/a n/a	n/a 5.5 to 8.0	35% max. n/a	100% 100%	n/a n/a	n/a n/a	min. of 6% N (5.5% insoluble), 1% Phosphoric Acid, 3% Potash n/a	n/a n/a	n/a n/a	n/a see other	must comply with Wyoming Fertilizer law free from sticks, clay subsoil, stones weed stolens and seeds