US ERA ARCHIVE DOCUMENT

COMPILED STATE DOT COMPOST SPECIFICATIONS TABLES

DOT 'In the Soil' Compost Specifications Chart

sendment and backfill sendment and backfill sendment and backfill ditives (amendment)- DRAFT ditives (amendment)- DRAFT ditives (amendment)- y shment-grade 1 compost blanking-grade 2 compost tablishment-grade 3	Feedstock(a) plant waste cow or sheep manure and wood reskue same leaves and yard trimmmings, tood scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, and soiled or non-recyclable paper same same same youtry litter yard waste, yard waste and manure, municipal sold waste and biosolids organic materials organic waste source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, soiled and/or unrecylable paper and biosolids unspecified -specific suppliers listed source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals and biosolids biosolids; and source separated compost approved for distribution by the Maryland Dept, of Agriculture biodegmdable matter, including biosolids yard clippings or other approved materials animal derived material leaves and yard waste, 10% animal	Application Rate 5 cu. ft. compost:1 cu. yd. soil 4 cu. yds. per 1,000 sq. ft. 0.5 cu. ft. per tree and 0.1 cu. ft. per shrub 1/2* to 2* 1 part compost:2 parts soil 1/2* 1* 75 mm project specific 40% compost:60% soil 4* 1 1/2* project specific up to 100 mm project specific project specific project specific	1/2" max. same < 25 mm, with twigs at 50 mm max. same same 100% passing a 1" screen project specific r/a "majority shall pass a 1" screen < 1.0" 1/2" or smaller 100% < 25 mm max. of 25% passing 4.75 mm, max. of 25% passing 4.75 mm and max. of 25% passing 4.75 mm. 25 mm max.	pH n/s 17/s 5.0 to 8.5 same 5.5 to 8.0 same 5.7 to 7.5 project specific 5.0 to 8.0 6.0 to 8.0 6.0 to 7.5 4.5 to 8.0	n/a 35% to 60% same same tess than 40% n/a n/a tess than 60% less than 60%	Organic Matter (day wt.) 30% min. same 30% min. same 30% min. same same n/a project specific n/a "1% to 10% 30% min. less than 35% 35% min.	soluble Salts r/a r/a r/a r/a 4.0 mmhos/cm < 5.0 mmhos/cm	Maturity/Stability N/a n/a n/a 6 min.using Solvita test same same n/a n/a n/a mature n/a n/a 6 or 7 using Solvita test stability shall be > 5 as measured by the Dewar Self Heating test	Nublents/Other Elements	Temperatura/Time N/a 140 deg F for 70 to 90 days same f/a i/a i/a i/a i/a i/a i/a i/a	C/N n/a 10/a 20/1 to 30/1 same n/a n/a n/a n/a n/a n/a n/a n/a	inert Content (wt.) I/a I/a I/a I/a I/a I/a I/a I/a I/a I/	Other n/a non-offensive odor same no objectionable odor, no resemblence to feedstock same same no noxious weed seeds must meet FLDEP rules for unrestricted distribution dark brown or black color, no human pathogens, minimal odors must comply with IEPA heaith standards, no glass or metal shards n/a 800 to 1,000 lbs/cu, yd, bulk density
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ilisted are for blended topsoil eni- SPECIAL PROVISION seni- seniment and backfill seniment senime	source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals, foost residues end bark, solied and/or unrecylable paper and biosolids unspecified -specific suppliers listed source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other agricultural residuals and biosolids blosolids, and/or other agricultural presiduals and biosolids blosolids, and ource separated compost approved for distribution by the Manyland Dept. of Agriculture biodegmidable matter, including biosolids yard clippings or other approved materials animal derived material leaves and yard waste.	1 1/2" project specific project specific up to 100 mm project specific project specific	screen < 1.0" 172" or smaller 100% < 25 mm max. of 90% passing 4.75 mm, max. of 25% passing .425 mm and max. of 2.2% passing .425 mm and max. of 2.2% passing .075 mm 25 mm max. 3/4" maximum diameter	6.0 to 8.0 6.0 to 7.5 4.5 to 8.0 6.0 to 7.5	lees than 60%	30% min. less than 35% 35% min.	< 5.0 mmhos/cm	n/a € or 7 using Solvita fest stability shall be > 5 as measured by	r/a N = 0.8% or above, P= 1.0% or above	n/a n∕a	n/a n/a n/a	4 mm max. size n/a r/a r/a	standards, no glass or metal shards n/a 800 to 1,000 lbs/cu, yd. bulk density
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endment and backfill endment and backfill dilives (amendment)- DRAFT dilives (amendment)- y shment- grade 1 compost blanking- grade 2 compost tablishment- grade 3	unspecified -specific suppliers listed source separated leaf and yard trimmings, food scraps, food processing residuals, manure and/or other apricultural residuals and blosolids blosolids, and source separated compost approved for distribution by the Manyland Dept. of Agriculture blodegmidable matter, including blosolids yard clippings or other approved materials animal derived material leaves and yard waste.	project specific project specific up to 100 mm project specific project specific-typically 1" to 2"	max. of 90% passing 4.75 mm, max. of 25% passing 425 mm and max. of 25% passing .075 mm 25 mm max.	4.5 to 8.0) r√a	35% min.		Solvita test stability shall be > 5 as measured by	P= 1.0% or above		n⁄a	n/a	
dilives (amendment)- DRAFT I dilives (amendment)- DRAFT I cilication (soil amendment) y shment- grade 1 compost blanking- grade 2 compost tablishment- grade 3	food scraps, food processing residuals, manure and/or other agricultural residuals and biosolids bloeolids, and source separated compost approved for distribution by the Maryland Dept. of Agriculture biodegradable matter, including biosolids yard clippings or other approved materials animal derived material leaves and yard waste.	project specific up to 100 mm project specific project specific-typically 1" to 2"	max. of 90% passing 4.75 mm, max. of 25% passing 4.25 mm and max. of 2.2% passing .075 mm 25 mm max.	6.0 to 7.5			< 4.0 mmhos/cm	stability shall be > 5 as measured by		n√a			n/a
ditives (amendment)- DRAFT cification (soil amendment) y shment-grade 1 compost blanking-grade 2 compost tablishment-grade 3	blosolids, and source separated compost approved for distribution by the Manyland Dopt, of Agriculture blodegradable matter, including biosolide yard clippings or other approved materials animal derived material leaves and yard waste.	up to 100 mm project specific project specific-typically 1" to 2"	max. of 25% passing, 425 mm and max. of 2.2% passing, 0.75 mm 25 mm max. 3/4" maximum diameter		30% to 55%	n/a		· ·	1	i i		 	1
cification (soil amendment) y shment-grade 1 compost blanking-grade 2 compost tablishment-grade 3	blodegradable matter, including biosolide , yard clippings or other approved materials animal derived material leaves and yard waste 90% leaves and yard waste, 10% animal	project specific project specific-typically 1" to 2"	25 mm max. 3/4* maximum diameter	5.5 to 7.5			< 5.0 mmhos/cm for source separated and < 10 mmhhos/cm for biosolids	"will not reheat upon stacking"	п∕а	n/a	n/a	n/a	biosolids must be approved by the Maryland Dept. of the Environment
shment- grade 1 compost planting- grade 2 compost tablishment- grade 3	animal derived material leaves and yard waste 90% leaves and yard waste, 10% animal	project specific-typically 1" to 2"		1	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
otanting- grade 2 compost tablishment- grade 3	leaves and yard waste		4.4	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	10 to 20:1	less than 1.0%	dark brown or black color, registered Mich. Dept. of Agriculture, no objectionable od
tablishment- grade 3	90% leaves and yard waste, 10% animal		10 mm max.	5.5 to 8.0		30% min.	max. 10,0 mmhos/cm	5 min. using Solvita test,	NPK ratios of 2-2-1	for Class A compost a PFRP process must be used:	6 to 20:1	3.0% max. at	state Pollution Control and USEPA Part 503 C
		project specific-typically 3" to 4"	19 mm max.	5.5 to 8.5		same	same	80% to 100% seed germination test scores, same	to 4-4-2 n/a	same	same	4 mm same	contaminent limits, registered for sale with the State of Minnesota apply to all 3 compost grade
		same as grade 1	same as grade 1	same as	density can be 1600 lbs./yd. same as grade 1	same as grade 1	same as grade 1	sarne as	same as grade 1	same as grade 1	same as	same as grade 1	
ent- SPECIAL PROVISION s	manure source separated leaf and yard trimmings,	2°	< 0.5°	grade 1 6.0 to 8.0	35% to 60%	30% min.	n/a	grade 1 "certified stable"	n/a	n/a	grade 1 n/a	n/a	n/a
	food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, and soiled or non-recyctable paper same	3 cu. ft, of composit to 1; cu. yd.	same	same	same	same	n/a	same	n/a	n/a	n/a	see other	shall be relatively free of objects larger than
oil amendment	biosolids	of loam project specific to raise soil		6.0 min.	L								25 mm (1") in diameter
		organic matter content to 2.75%	Na		55% max.	n/a	n/a	r/a	n/a	n/a	. n/a	n/a	must be NJDEP approved
	source separated leaf and yard trimmings, food scraps, food processing reciduals, manure and/or other agricultural residuals, forest residues and bark, and soiled or non-recyclable paper	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
ement specifications (RFQ) ic fertilizer/soil amendment	poultry litter	project specific	100% must pass a 5/8" screen	5.7 to 7.5	40% max.	r/a	< 40 mmhols/cm	minimal reheating upon stockpiling	must be within % of claimed nutrients	composting method dependent	n/a	n/a	registered as a fertilizer wuth the NC Deptartment of Agriculture, Cu and Zn limits (2 lbs./ton)
backfill mix	source separated yard waste	1/3 by volume	. rva	r/a	n/a	n/a	n/a	n/a	n/a	r√a	n/a	n/a	Ohio Class IV compost is the only permitted
soil conditioner	yard debris	project specific	n/a	n/a	n/a	n/a	n√a	n/a	n/a	57 degrees C for 15 days	n/a	n/a	product rnax, of 10% bacteria and fungus
rated planting area Itivated planting area vn and seeded areas-	mushroom compost yard debris or mushroom compost yard debris or mushroom compost yard debris or mushroom compost	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	r√a	n/a	ıVa
oil amendment oil amendment	paper mill compost sewage sludge		13 mm max. 10 mm to 80 mm		n/a n/a	70% min. 50% min.	n/a n/a	n/a ⊓/a	n/a "heavy" metal limits	n/a 21 days composting + 30-60 curing	n/a n/a	n√a n/a	25% ash max., weed free, 100% water holding capacity.
oil amendment	agricultural, food and yard waste	not specified, project specific	pass 25 mm screen		95% to 55%	n/a	< 3.0 mmhols/cm	n/a	USEPA Part 503 Class A, E.Q. limits	n/a	n/a	< 1.0%	produced by PADEP permitted site
	animal manure, mushroom compost or	25% by volume	r√a	n/a	n/a	n∕a	n/a	specifications are compost feedstock depender should not cause "burning" of plants	nt as listed above	n∕a	n/a	n/a	n/a
Canna planting	same	6.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	scraps, food processing residuals, nanure and/or other agricultural residuals, forest residues and bark, and soiled	5% to 30% by volume	100% passing 1* screen	5.5 to 8.5	n/a	30% min.	< 5.0 mmhols/cm	"linished" per Solvita test	n/a	USEPA 40 CFR #503 Regs for Class A compost	n√a.	no visible content	must meet TX Natural Resources Conservation Commission health and safety standards
ent-SPECIAL PROVISION	animal manures, straw, yard trimmings,	50 mm	4 mm max. thickness	5.5 to 7.0	n/a	r/a	n∕a	n/a	n/a	n/a	n/a	no visible	dark brown to black, no offensive odors
mendment-DRAFT	yard waste	2"	100% passing 1" screen	5.5 to 8.0	35% to 55%	n/a	3.0 mmhols/cm or less	1 year old min., "stable, must	USEPA Part 503 Class A metal limits,	n/a	n/a	r/a	n/a
	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		<u> </u>	30% min.	< 4.0 mmhols/cm	demonstrate enhanced plant growth* "stable", 5 min. using Solvita test	N=0.5-2.5%, P=0.2-2.0%,K=0.3-1.5% 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
	cattle, sheep or poultry manure or other	1 part compost to 6 parts topsoil	r/a	n/a	n/a	n/a	n/a	r√a	n/a	r/a	r/a	n/a	is for use on all other locations n/a
rganic fertilizer	organic material acceptable to WIDOT animal manures - supplier listed	project specific	r/a	n/a	35% max.	100%	ī/a	n/a	min. of 6% N (5.5% insoluble),	n/a	n/a	n/a	must comply with Wyoming Fertilizer law
	"	project specific	n/a		İ	100%	n/a	n/a	1% Phosphoric Acid, 3% Potash n/a		n/a	see other	free from sticks, clay subsoil, stones weed stolens and seeds
bac	nt specifications (RFQ) illitzer/soil amendment ikfill mix onditioner I planting area ad planting area ad seeded areas- mendment mendment mendment tellidill mix kfill mix a planting tured topsoil	lood scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bark, and soled or non-recyclable paper and bisosolds illitzet/soil amendment lidill mix source separated yard waste onditioner yard debris mushroom compost yard debris or mushroom compost sewage skidge and several paper mill compost sewage skidge all composts listed above all composts listed above and yard trimmings, food scraps, food processing residuals, brest residues and bark, and soilled and/or unrecyclable paper and blosolist animal manures, straw, yard trimmings, sawdust or other forest wood products yard waste or other forest wood products a maintenim manures, straw, yard trimmings, sawdust or other forest wood products a maintenim of 55% plant waste by volume, a maximum of 35% of other approved organic waste ant/or blosolists. If ill mix minimum of 55% plant waste by volume, a maximum of 35% of other approved organic waste ant/or blosolists.	food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bank, and solled or non-recyclable paper and biosolide paper an	food scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bank, and soled or non-recyclable paper and bisoelide paper pounts passed paper pounts passed paper pape	cod scraps, food processing residuals, manure and/or other agricultural residuals, forest residues and bank, and solled or non-recyclable paper and bisosides poulity litter project specific 100% must pass a 5/8" screen 5.7 to 7.5	cod scrape, food processing residuals, manure and/or other agricultural residuals, torest residues and bark, and solid or non-recyclable paper and biosolide poultry litter project specific 100% must pass a 5/8" screen 5.7 to 7.5 40% max.	food scrape, food processing residuals, manure and/or other approach agricultural residuals, forest residuals and solded or non-roycable paper and bisosolds amendment solded or non-roycable paper and bisosolds amendment sold amendm	in ode screep, food processing nesiduate, manual and/or other applications in mekhasis, forest residues and basis, and soled or non-respossible purper and blooseds properly and blooseds proving little in project specific projec	specifications (RFO) In specification (RFO) In speci	lood strape, food processing netsbasis, manus acrotic of the agricultural and solet of moneyopublic paper and beloods and solet of moneyopublic paper and beloof the solet p	to design (PFO) the profession	bool congs, food proceasing necklade, such as the second of the signature and other the signature and other the signature and other or more populate paper and 150% boolds. If operations of (FIC) Reported as an other of the second of the s	bod series, food processing mediatals, manus analyses of processing mediatals, manus analyses of processing mediatals, manus analyses of processing mediatals, and social processing mediatals, and so