

Product Information and Use Guide for Blackwood Blends Soil Amendment

An Exceptional Quality Biosolids-Derived Material

Manufactured by WOF NE Blackwood Project, LLC at its Tremont, PA Facility

Working density: 52-62 lb/cubic foot
Solids content: 57% average

	<u>Dry Weight</u>	<u>As Delivered</u>	
Total Neutralizing Value	24.1%	14.5%	<i>(as calcium carbonate equivalence)</i>
Minimum Fineness Score	47%	47%	
Effective Neutralizing Value	23.5%	14.1%	
Average Calcium	13.0%	8.1%	
Average Magnesium	0.4%	0.3%	

BLACKWOOD BLENDS SOIL AMENDMENT CONTAINS THE FOLLOWING QUANTITIES OF MAJOR NUTRIENTS

Average quantities of nutrients in as-delivered material

Nutrient	Percent	Lbs / Ton
Total Nitrogen (N) (mostly organic)	0.90	18
First year plant available Nitrogen (PAN)*	0.27	5.4
Phosphorus (as P ₂ O ₅)	0.95	19
Soluble Potash (as K ₂ O)	0.09	2

**assumes 30% mineralization of total N in first growing season following application*

Blackwood Blends Soil Amendment is made from stabilized municipal biosolids, kiln dust and lime. These ingredients are blended together in a patented pasteurization Process to Further Reduce Pathogens (PFRP), as required by USEPA and PADEP, prior to public distribution. Use of the product is authorized for use as:

1. a soil additive or substitute,
2. agricultural liming material,
3. a horticultural amendment
4. a fertilizer in normal farming operations or on disturbed lands for reclamation purposes, or
5. a component of the value-added topsoil material at locations other than the processing facility.

RECOMMENDED APPLICATION RATES

Based on tons per acre of Blackwood Blends Top Soil required to raise soil pH to 7.0 (8" plow depth)

[Adapted from: Cornell Field Crops and Soils Handbook, Table 7]

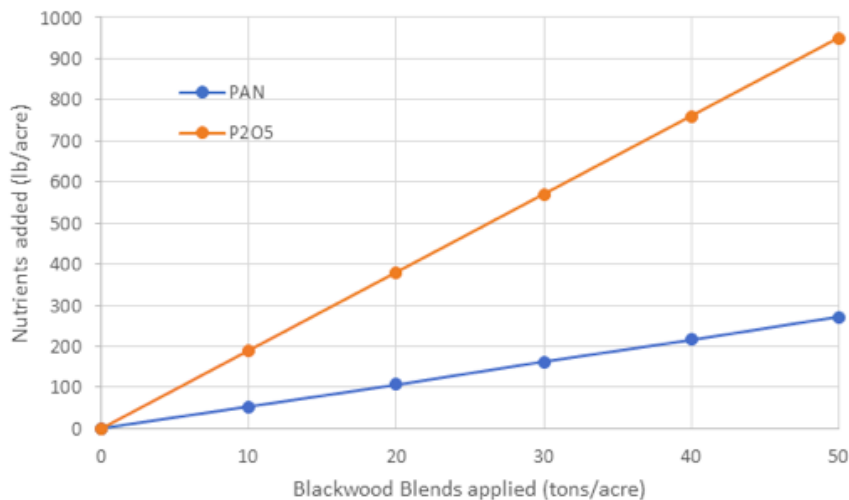
~14.1% ENV as delivered

Initial Soil pH	Sands	Sandy Loams	Loams & Silt Loams	Silty Clay Loams
4.5	28	50	78	106
4.6 to 4.7	25	46	71	92
4.8 to 4.9	21	43	64	89
5.0 to 5.1	18	39	60	85
5.2 to 5.3	14	32	46	57
5.4 to 5.5	11	21	28	43
5.6 to 5.7	7	14	21	39
5.8 to 5.9	6	13	18	25
6.0 to 6.1	4	11	14	21
6.2 to 6.3	4	7	11	18
6.4 to 6.5	2	6	9	14
6.6 to 6.7	1	5	7	11

It is recommended that soils be tested for liming requirement and to base Blackwood Blends application rates on the test results.

APPLICATION RATE BASED ON CROP NITROGEN REQUIREMENT

Amount of first year Plant Available N (PAN) and P (P2O5) added with Blackwood Blends application



Application rates are based on lime requirements, then crop nitrogen needs. It is recommended that spreading be done at the lower rate. For optimum crop yields, supplement with other fertilizers only if necessary. Use of this product in a manner inconsistent with this label is prohibited. Contact your Blackwood Farms Soil representative for more information



BLACKWOOD BLENDS SOIL AMENDMENT STOCKPILING AND SPREADING PERMIT REQUIREMENTS

PA DEP General Permit No. WMGM054

- The product must not be applied or stockpiled within:
 - 11" of the seasonal high water table or 3.3' of the regional ground water table.
 - 33' of an intermittent stream.
 - 50' of a property line unless the owner demonstrates one of the following:
 - That storage takes place in an enclosed facility.
 - That the owner of the adjacent property has provided a written waiver consenting to the facility being closer than 50 feet. The waiver shall be knowingly made and separate from a lease or deed unless the lease or deed contains an explicit waiver from the owner.
 - 100' of a perennial stream, exceptional value wetland, the edge of a sinkhole or area draining into a sinkhole or the perimeter of an unlined depression.
 - 300' of a water source or occupied dwelling.
 - 300 yards measured horizontally from the property line unless a written waiver is obtained from the current property owner of:
 - A building owned by a school district or parochial school and used for instructional purposes.
 - A park.
 - A playground.
- The product must not be applied or stockpiled in an area:
 - without an implemented erosion and sedimentation control plan or a farm conservation plan.
 - where the storage would adversely affect the habitat of a known endangered or threatened species.
- No ponding of run-on or run-off is allowed. Any undrained depressions accumulating run-on or run-off shall be regraded or otherwise corrected within 24 hours of detection.
- Product application rate must not exceed the agronomic requirements of the vegetation grown, unless approved by the PADEP on a case-specific basis. The loading rate must take into account other materials (animal manure, etc.) that are applied to the land.
- Storage and land application of the product must be in accordance with best agricultural management practices and must be controlled to prevent contravention of groundwater and surface water standards. Precipitation that has come in contact with product stockpiles must be directed away from surface water or water supplies.
- The product shall not be stored for longer than (1) one year.
- The amount of product stored at the active land application site shall not exceed the calculated loading or application rate needed for upcoming growing season for the permitted application site.
- No more than 1800 cubic yards of product may be stockpiled at any farm. No product can be stockpiled at a farm that is not intended to be used on that farm or another approved farm.
- No product may be stockpiled on flooded land or on land with a slope greater than 3%.