Supplementary data

Table S1. Saturated and unsaturated infiltration rates and time to initial drainage for the soil mixes (across compost treatments) for pre-plant and post-harvest.

Soil	Pre plant	Pre plant	Drain	Post harvest	Post harvest	Drain
mix	Sat rate	Unsat rate	time	Sat rate	Unsat rate	time
	cm/h	cm/h	min	cm/h	cm/h	min
Storden	3.1a	2.1a	87a	5.3a	5.6a	17a
Sac	1.5a	2.1a	71a	4.1a	4.4a	27a
Killduff	2.8a	3.9a	67a	4.2a	4.9a	20a
Harps	1.7a	5.4a	49a	4.5a	5.1a	23a

Treatments followed by the same letter in a column were not significantly different at p = 0.05.

Table S2. Saturated and unsaturated infiltration rates and time to initial drainage for the compost treatments (across soils) for pre-plant and post-harvest.

Compost blanket	Pre plant Sat rate	Pre plant Unsat rate	Drain time	Post harvest Sat rate	Post harvest Unsat rate	Drain time
	cm/h	cm/h	min	cm/h	cm/h	min
No	2.8a	5.5a	52b	4.8a	5.5a	20a
Yes	1.8a	1.2b	95a	4.2a	4.5a	24a

Treatments followed by the same letter in a column were not significantly different at p = 0.05.

Table S3. Mass of grass and clover, surface bulk density, and root depth for the soil mixes averaged across those with and without compost blankets.

Soil mix	Grass	Clover	Bulk density	Root depth
	g	g	Mg m ⁻³	m
Storden	1.3a	7.2a	1.68a	0.26a
Sac	0.9a	7.8a	1.64a	0.28a
Killduff	1.0a	7.4a	1.65a	0.27a
Harps	1.0a	7.3a	1.66a	0.28a

Treatments followed by the same letter in a column were not significantly different at p = 0.05.

Table S4. Nitrate in saturated and unsaturated effluent of compost blanket treatment (across soils), before planting and after harvest. Also calculated total phosphorus load in preplant and post-harvest effluent, based on outflow volumes for saturated and unsaturated effluent.

Compost	Pre	Pre	Pre NO ₃	Post	Post NO ₃	Post NO ₃
blanket	NO₃sat	NO₃unsat	load	NO ₃ sat	unsat	load
	mg/L	mg/L	mg	mg/L	mg/L	mg
No	56a	34a	59a	192a	86a	214a
Yes	39a	26a	36a	187a	59b	207a

Table S5. Total phosphorus in saturated and unsaturated effluent of compost blanket treatment (across soils), before planting and after harvest. Also calculated total phosphorus load in preplant and post-harvest effluent, based on outflow volumes for saturated and unsaturated effluent.

Compost	Pre plant	Pre plant	Pre plant	Post harvest	Post harvest	Post harvest
blanket	TPsat	TPunsat	P load	TPsat	TPunsat	P load
	mg/L	mg/L	mg	mg/L	mg/L	mg
No	0.17a	0.34a	0.35a	0.16a	0.15a	0.22a
Yes	0.10a	0.32a	0.21a	0.17a	0.13a	0.22a