

Soil chemical properties Mark Smith Farm

Treatment	Distance from bale or swath center	pH	CEC	P Mehlich III	K Mehlich III	Mg Mehlich III	Ca Mehlich III
				ppm	ppm	ppm	ppm
Control	Average	6.8	15.3	9.7	177.0	136.7	2463.4
Unrolled Bales	2.4m	6.9	15.4 (1%)	14.3 (48%)	280.3 (58%)	140.0 (2%)	2529.3 (3%)
	6.0m	6.8	15.9 (4%)	15.0 (55%)	313.3 (77%)	146.3 (7%)	2587.1 (5%)
	9.7m	6.8	16.1 (5%)	13.7 (41%)	303.3 (71%)	142.0 (4%)	2633.0 (7%)
	Average	6.8	15.8 (3%)	14.3 (48%)	299.0 (69%)	142.8 (5%)	2583.1 (5%)
Intact Bales	2.4m	6.9	14.7 (-4%)	17.7 (83%)	362.3 (105%)	181.7 (33%)	2313.5 (-6%)
	6.0m	6.8	16.2 (6%)	21.0 (117%)	360.3 (104%)	196.7 (44%)	2454.2 (0%)
	9.7m	6.9	15.4 (1%)	19.3 (100%)	321.3 (82%)	181.7 (33%)	2486.9 (1%)
	Average	6.8	15.4(1%)	19.3 (100%)	348.0 (97%)	186.7 ((37%)	2418.2 (2%)

Non-bold numbers are averages of 3 repeat measures

Soil chemical properties Mark Smith Farm (ctd..)

Treatment	Distance from bale or swath center	OM	Zn Mehlich III	Cu Mehlich III	S Mehlich III
		(%)	ppm	ppm	ppm
Control	Average	5.6	3.5	2.7	10.3
Unrolled Bales	2.4m	6.4 (14%)	3.7 (7%)	2.3 (-15%)	11.3 (10%)
	6.0m	6.3 (12%)	3.8 (10%)	2.4 (-11%)	12.6 (22%)
	9.7m	6.1 (8%)	6.6 (91%)	2.5 (-9%)	12.6 (22%)
	Average	6.2 (11%)	4.7 (36%)	2.4 (-11%)	12.2 (18%)
Intact Bales	2.4m	6.9 (23%)	4.3 (25%)	3.0 (9%)	14.3 (39%)
	6.0m	7.7 (37%)	4.9 (41%)	2.8 (1%)	13.7 (33%)
	9.7m	7.3 (29%)	4.6 (32%)	2.5 (-9%)	12.8 (24%)
	Average	7.3 (30%)	4.6 (33%)	2.7 (0%)	13.6 (32%)

Non-bold numbers are averages of 3 repeat measures

Soil chemical properties Ron Kriess Farm

Treatment	Distance from bale or swath center	pH	CEC	P Mehlich III	K Mehlich III	Mg Mehlich III	Ca Mehlich III
				ppm	ppm	ppm	ppm
Control	Average	5.4	12.0	6.7	141.7	148.7	815.0
Unrolled	2.4m	5.7 (5%)	10.7 (-11%)	6.0 (-10%)	124.0 (-13%)	145.7 (-2%)	886.9 (9%)
Bales	6.0m	5.6 (3%)	12.2 (2%)	8.7 (30%)	137.3 (-3%)	177.7 (20%)	983.2 (21%)
	9.7m	5.5 (1%)	12.0 (1%)	6.0 (-10%)	117.3 (-17%)	140.3 (-6%)	892.3 (10%)
	Average	5.6 (3%)	11.6 (-3%)	6.9 (3%)	126.2 (-11%)	154.6 (4%)	920.8 (13%)
Intact	2.4m	5.6 (4%)	11.9 (0%)	8.0 (20%)	211.3 (49%)	173.7 (17%)	927.5 (14%)
Bales	6.0m	5.5 (2%)	10.8 (-10%)	6.3 (-5%)	163.3 (15%)	148.3 (0%)	849.8 (4%)
	9.7m	5.5 (2%)	12.1 (1%)	6.3 (-5%)	150.0 (6%)	160.3 (8%)	938.8 (15%)
	Average	5.6 (3%)	11.6 (-3%)	6.9 (3%)	174.9 (24%)	160.8 (8%)	905.4 (11%)

Non-bold numbers are averages of 3 replications

Soil chemical properties Ron Kriess Farm (ctd..)

Treatment	Distance from bale or swath center	OM (%)	Zn Mehlich III	Cu Mehlich III	S Mehlich III
			ppm	ppm	ppm
Control	Average	4.1	3.4	1.7	25.8
Unrolled	2.4m	3.7 (-10%)	2.3 (-32%)	1.5 (-12%)	12.8 (-51%)
Bales	6.0m	4.1 (-1%)	4.0 (18%)	1.9 (1%)	19.6 (-24%)
	9.7m	3.9 (-6%)	3.2 (-8%)	1.6 (-8%)	26.4 (2%)
	Average	3.9 (-6%)	3.2 (-7%)	1.7 (-3%)	19.6 (-24%)
Intact	2.4m	4.6 (11%)	3.6 (4%)	2.2 (27%)	17.4 (-33%)
Bales	6.0m	3.8 (-7%)	2.3 (-34%)	1.7 (-4%)	12.0 (-53%)
	9.7m	3.8 (-8%)	2.6 (-25%)	1.8 (2%)	25.0 (-3%)
	Average	4.1 (-1%)	2.8 (-18%)	1.9 (8%)	18.1 (-30%)

Non-bold numbers are averages of 3 replications