

Forage Cover Crop Systems to Extend Season

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Treatment	Harvest 1			Harvest 2		Harvest 3	Total DM Yield lb/ac
	Oat Height inch	Harvest Moisture %	Harvest Dry M lb/ac	Oat Height inch	Harvest Dry M lb/ac	Harvest Dry M lb/ac	
Oat	34.7	77.7	2994	22.5	861	687	4696
Oat/rye/crimson	32.5	75.7	2863	16.6	642	733	4143
Oat/rye	32.1	77.2	2546	17.5	614	788	3977
Oat/rye/alfalfa	35.6	76.8	3180	16.5	589	885	4694
Oat/rye/austrian winter	33.7	76.8	3677	15.6	319	695	4806
Oat/rye/berseem	34.3	76.8	2910	16.4	398	716	4051
Oat/ryegrass/crimson	34.8	78.7	3251	19.0	397	462	4126
Oat/ryegrass/turnip	34.7	77.5	3481	15.8	386	515	4438
Oat/rye/hairy vetch	33.7	78.2	3313	14.3	710	1710	5761
Oat/rye/red clover	33.7	76.5	3213	14.2	392	741	4526
Oat/rye/red clover/alfalfa	32.9	76.6	3352	16.1	537	846	4624
Oat/rye/rape/turnip/austrian winter	35.6	78.1	3548	14.1	286	786	4739
Oat/rye/sudan/turnip/hairy vetch	35.4	79.6	3549	13.5	792	1658	6062
Oat/rape/turnip/austrian winter	35.0	79.3	3667	14.1	243	645	4654
Oat/triticale	34.8	77.9	3209	15.7	842	832	4986
Oat/wheat	33.5	76.2	3129	14.9	374	450	4000
Mean	34.2	77.5	3243	16	524	822	4643
C.V.%	4.9	1.9	11.2	14.8	34.8	26.8	10.7
LSD.05	2.4	2.1	518	3.4	260	367	825

Planting Date = May 23; Previous Crop = Spring Wheat, with fall soil test of 15 lbs. N/ac.

No additional N was used in this trial. All legumes were inoculated with proper strain of inoculant.

Harvest 1, oats at 75 % heading, was on July 25. Harvest 2 was August 26 and harvest 3 on October 31.

Brassicas (rape & turnips) were defoliated prior to harvest 2 by late-season flea beetles.

A 1200 lb. field cured (15% M) bale is approximately 1000 lb Dry Matter (DM) yield.

Crop-variety	Seeding rate PLS/ac
Oat-Paul	1 million (47 lbs/ac)
W.Rye-Rymin	800,000 (51 lbs/ac)
W.Triticale-Boreal	800,000 (68 lbs/ac)
W.Wheat-Jerry	800,000 (63 lbs/ac)
Red Clover-Arlington	5 lbs/ac
Alfalfa	8 lbs/ac
Austrian Winter	200,000 (40 lbs/ac)
Hairy Vetch	18 lbs/ac
Crimson Clover	12 lbs/ac
Berseem Clover	12 lbs/ac
Turnip-Purple Top	2 lbs/ac
Rape-Dwarf Essex	3 lbs/ac
Sudangrass-Piper	20 lbs/ac