Forage Grass Nursery

A forage grass nursery was established at the Redmond Station during the first week of August in 1966. It was generally weak and not harvested for yield during 1967. The dry fall, winter, and early spring of 1968 did little to maintain the vigor of the seeding, and as a result, the yields were rather low during 1968. The results of the first and second cuttings and total yield of the first harvest year are shown in Table No. 7 , and indicate just the opposite of what would normally be expected. Tall fescue varieties and lines are the lowest yielding of the several species. At this time there isn't a large variation in yield between Intermediate wheatgrass, Smooth bromegrass, Meadow foxtail, Orchard grass, and Timothy. The average stand is also shown in Table No. 7 , and generally indicates an excellent stand, except with the tall fescues and orchard grasses. With orchard grass the yield follows the stand, but not so with tall fescue.

An excellent stand was observed on all plots in the fall of 1965; the year of establishment. The following spring, the entire stand was suffering from frost heaving, and, apparently, the bunch-type grasses suffered more severly from the heaving than the sod-formers.

The stand by replicate is presented in Appendix Table No. 5 .

Table No.7

Air Dry Forage Yields of Thirty-Three Forage Grasses Grown at the
Redmond Location of the Central Oregon Experiment Station - 1968

Variety or Line	Forage Yield - Tons Per Acre			
	1st Cut.	2nd Cut.	Total	Average Stand
Intermediate Wheatgrass				
Greenar	2.59	1.41	4.00	92.50
Nebraska 50	2.42	1.18	3.60	93.75
Oahe	2.59	1.26	3.85	100.00
Chief	2.31	1.28	3.60	95.00
Smooth Bromegrass				
Manchar	2.68	1.22	3.90	100.00
Sask - S6325	3.18	0.82	4.00	100.00
Canadian Common	2.79	1.04	3.83	100.00
Tall Fescue				
Alta	0.87	1.38	2.25	56.25
Kenwell	1.04	1.16	2.20	58.75
Kenmont	1.08	1.33	2.41	61.25
Fawn	1.15	1.19	2.34	81.25
240 x 241	0.94	1.72	2.66	75.00
Syn. L	0.70	1.43	2.13	62.50
Syn. I	1.05	1.48	2.53	71.25
Meadow Foxtail				
Common	1.83	1.40	3.22	100.00
P 111 Creeping	2.18	1.65	3.84	100.00
Garrison's Creeping	1.96	1.68	3.63	100.00
Mich. Syn. Creeping	2.37	1.80	4.18	93.75
Mich. Synthetic	1.84	1.76	3.61	100.00
Orchard Grass				
Commercial	1.61	1.86	3.46	90.00
Latar	1.63	1.41	3.04	77.50
Chinook	1.78	1.32	3.10	85.00
Masshardy	1.83	1.46	3.29	82.50
Wisc. F52 A	2.14	2.01	4.15	95.00
Pennlate	1.62	2.06	3.68	78.75
Sterling	1.94	1.98	3.92	88.75
Pennmead	1.30	2.20	3.50	68.75
Timothy				
Clair	2.07	1.80	3.87	88.75
Climax	2.20	1.36	3.55	100.00
Essex	1.59	1.55	3.14	100.00
Wisconsin T-1	2.22	1.35	3.57	100.00
Common	2.33	1.58	3.92	100.00
Kentucky Bluegrass				
Common	1.41	2.04	3.45	93.75

Appendix Table No. 5

Percentage Stand by Replication
Forage Grass Nursery
Redmond, Oregon - 1968

Variety or Line	Percentage Stand				
	Rep. I	Rep. II	Rep. III	Rep. IV	Average
Intermediate Wheatgrass					
Greenar	100	100	80	90	92.50
Nebraska 50	100	75	100	100	93.75
Oahe	100	100	100	100	100.00
Chief	100	100	100	80	95.00
Smooth Bromegrass					
Manchar	100	100	100	100	100.00
Sask - S6325	100	100	100	100	100.00
Canadian Common	100	100	100	100	100.00
Tall Fescue					
Alta	75	50	50	50	56.25
Kenwell	75	50	50	60	58.75
Kenmont	75	60	50	60	61.25
Fawn	75	75	75	100	81.25
240 x 241	75	75	100	50	75.00
Syn. L	75	50	50	75	62.50
Syn. I	75	75	75	60	71.25
Meadow Foxtail					
Common	100	100	100	100	100.00
P 111 Creeping	100	100	100	100	100.00
Garrison's Creeping	100	100	100	100	100.00
Michigan Syn. Creeping	100	100	75	100	93.75
Michigan Synthetic	100	100	100	100	100.00
Orchard Grass					
Common	80	80	100	100	90.00
Latar	75	60	75	100	77.50
Chinook	80	80	100	80	85.00
Masshardy	80	80	80	90	82.50
Wisc. F52 A	80	100	100	100	95.00
Pennlate	75	75	90	75	78.75
Sterling	80	75	100	100	88.75
Pennmead	80	60	75	60	68.75
Timothy					
Clair	100	75	100	100	88.75
Climax	100	100	100	100	100.00
Essex	100	75	100	100	88.75
Wisconsin T-1	100	100	100	100	100.00
Common	100	100	100	100	100.00
Kentucky Bluegrass					
Common	75	100	100	100	93.75