SWEET VERNAL.

Sweet vernal (Anthoxanthum odoratum) is general over most of the country as a volunteer, but, as will be seen from the analyses, the average percentage cover is low-much lower really than what one would expect. On the poorer and harder country, particularly that which is quite run out, there is often a very marked volunteer growth of sweet vernal. On Mr. A. Bottomley's farm at Whangamomona, for example, the volunteer growth for the second year was 17 points, and 15 points in the third year. On this place the take of the regular grasses sown was extremely bad, and the writer is very much inclined to the opinion that a large sweet-vernal volunteer growth, particularly when the growth is sparse and the plants stunted, is a fairly certain indication that the fertility is very low and that it is useless to expect much else than danthonia to do well on that country. This, however, does not at all hold true where the sweet vernal is growing vigorously.

These volunteer growths, as pointed out elsewhere in this article, are extremely valuable, and the ultimate economic control of secondary growth is largely wrapped up in establishing additional species that will return as volunteers on the burning-off or on the crushing-out of that country, as often as it is necessary to finally kill the secondary growth outright.

Seed Mixtures for Secondary Burns.

The following mixtures, based on present-day knowledge, are recommended for secondary-growth country:

60 in. rainfall.			46	where efficient slightly sacrific			
D			1Ъ.	D			lb.
Brown-top	* *		2	Brown-top	* * *		2
Crested dogstail			4	Crested dogstail			3
Perennial rye-grass			6	Perennial rye-grass			6
White clover			1 -	White clover			1
Lotus major			10	Lotus major		2.2	i
Danthonia pilosa			3	Danthonia pilosa			2
Total per acre			161	Total per acre			14
Cost per acre a	pproxin	nately	26s.	Cost per acre a	pproxim	ately 2	eos.

Secondary-burn mixture where likeli- hood of paspalum proving a success.				(4) Secondar fall is		mixture 60 in.	where	ra	
own-top				2	Brown-top	11	**		

Drown-top	* * * * * * * * * * * * * * * * * * * *		4
Crested dogstail		1.1	3
Perennial rye-grass			6
White clover			1/2
Lotus major			1 2
Danthonia pilosa			2
Paspalum			2
			-
Total per acre		* *	10

D.

Cont	***	0000	approximately 24s	

(4)	Secondary-burn	mixture	where	rain-

			lb.
Brown-top			1
Crested dogstail			4
Perennial rye-grass			6
White clover			I
Danthonia pilosa	**		4
Total per acre			16
Cost per acre ap	proximat	elv 229	s. 6d.