COMMONWEALTH OF AUSTRALIA

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION

TASMANIAN REGIONAL LABORATORY

TELEPHONES: 2 2786, 2 2787

"STOWELL",
STOWELL AVENUE.
HOBART. TAS.

3rd December 1963

Miss Elizabeth Ann Bartholomew
West Virginia University
Morgantown, West Virginia, U.S.A.

Dear Miss. Bartholomew:

Thank you for your letter of 21/11/63 and the box of seeds. Both arrived on the 25th. I have examined and analysed the Dioscorea villosa in some detail. The results are on the attached sheet. I believe this will be a good plant for me to experiment upon because it has a fairly high ratio (weight of seed)/(weight of shucks). Fourteen seeds have been planted in good sandy soil. I'll let you know what happens.

The Hog-Peanut turned out to be rather similar to Glycine which is already here.

Thank you for your efforts on my behalf.

Yours faithfully,

Grote Reber

Grote Reber

3rd December 1963

Dioscorea villosa

Seeds in		3 Vanes	2 Vanes	1 Vane
Pods	Number	13	11	14
	Average milligrams	89.0	69.1	43.4
Seeds	Total number	53	31	17
	Number per pod	4.07	2.82	1.22
	Average milligrams	10.04	10.25	10.45
	Standard deviation	0.8	1.0	1.3
Shucks	Average milligrams	47.9	40.5	31.1
	Standard deviation	3.6	4.2	4.1
(Weight of Seed)/(Weight of Shucks)		.856	.713	.408

A vane frequently has more than one seed but never more than two per vane.

Weight of seed is independent of number of vanes filled.

Pods with unfilled vanes have lighter shucks. Apparently the unfilled vanes are thinner than the filled vanes.

Ratio (wight of seed)/(weight of shucks) decreases as the number of filled vanes decreases.

Grote Reber

Grote Reber