

## IV. REPORT ON MAIZE COOPERATIVE

Seed requests to the Maize Cooperative in 1970 numbered 154. A total of 114 requests (74%) were from 27 states in the United States and 40 (26%) requests were from 18 foreign countries. In addition, 55% of the requests were from Geneticists; 19% from Plant Breeders, 19% from Physiologists and 7% for educational purposes. The number of stocks per request ranged from 1 to 108, with the average number per request being for 8 stocks. The total number of packets sent to supply the requests were 1340.

The number of requests per year has leveled off some in the last 3 to 4 years. However, the number of requests has increased about 4 times compared to 1955. The following summary gives the total yearly requests at 5 year intervals for 1955 through 1970.

<u>Year</u>	<u>Number of Requests</u>		
	<u>U.S.</u>	<u>Foreign</u>	<u>Total</u>
1955	34	6	40
1960	79	5	84
1965	88	22	110
1970	114	40	154

During 1970, 89 different lethal seedling traits were increased and 1668 seedling tests conducted to determine pedigrees. In addition, certain single genes and chromosome tester combinations were increased for chromosomes 4, 5, 6, and 9. Also allele tests were made on 50 unknown genes with ones placed to chromosomes. All the endosperm genes in the collection were increased in 1970.

Considerable effort is being spent in arranging stocks in our new cold seed storage unit. 960 new all steel storage drawers have been assembled in this room. All stocks are being ordered by chromosome and tester combinations within the chromosome. Also all chromosome aberrations stocks have been assembled in an orderly manner. This should allow for a continuing inventory of all stocks and also save considerable time and effort in filling seed requests.

The attached catalogue of stocks represents a listing of currently available genetic stocks. A complete listing of all translocation stocks

in the collection has been published in Volume 43 of the Maize News Letter. Copies of these stock lists are available upon request.

Requests for seed and correspondence relative to the stock program should be addressed to:

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