

## IV. REPORT ON MAIZE COOPERATIVE

The procedure of routinely converting our genetic stock collection toward one or more of the inbred lines M14, W23, and Oh51A has been discontinued. The single cross hybrid W23 X L317 is now being used in this program for deriving vigorous, adapted stocks.

The volume of seed requests continues to rise each year. The increase in requests from abroad has been especially striking, and it is now probable that more than half the seed distributed each year is sent to foreign countries. Requests from physiologists and biochemists have been building up gradually for several years. Demand has been heaviest for traits affecting starch composition of the endosperm and for dwarfs and chlorophyll mutants. A special seed increase of traits in these categories was made this past summer.

Dr. Johnie Jenkins, who had been assisting part-time with the work of the Maize Cooperative, joined the staff of the U.S.D.A. Boll Weevil Research Laboratory, Starkville, Mississippi, last July 1.

Dr. E. G. Anderson currently has a half-time appointment on our staff as Visiting Professor of Genetics. He is spending part of the year at Pasadena sorting out stocks from his collection for transfer to the Maize Cooperative.

Requests for stocks or for copies of stock lists should be sent to the Botany Department, University of Illinois, Urbana, Illinois.

The following listing of reciprocal translocations represents a supplement to last year's catalog of stocks. The interchange positions for these translocations are available from the following source: Longley, A. E., Breakage Points for Four Corn Translocation Series and Other Corn Chromosome Aberrations. U.S. Dept. of Agr., Agr. Res. Serv. ARS 34-16, 40 pp., 1961.

## RECIPROCAL TRANSLOCATIONS

<u>Symbol</u>	<u>Translocation</u>	<u>Symbol</u>	<u>Translocation</u>
8001	1-9	8219	5-6
8004	4-8	8249	1-4
8006	3-7	8302	1-9
8023	3-8	8321	2-5
8027	2-4	8322	2-7
8032	3-9	8339	4-6
8041	1-5	8345	5-10
8045	2-7	8347	1-5
8048	1-3	8349	3-10
8069	4-5	8350	3-8
8103	4-7	8351	3-5
8104	3-5	8367	3-8
8108	4-5	8368	1-4
8143	6-7	8374	4-7
8219	2-10	8375	1-10

<u>Symbol</u>	<u>Translocation</u>	<u>Symbol</u>	<u>Translocation</u>
8376	2-8	8649	4-9
8380	4-6	8651	6-10
8383	7-9	8658	1-6
8386	5-9	8659	7-9
8388	1-5	8662	2-3
8389	1-9	8663	1-4
8395	4-5	8665	5-6
8397	3-4	8666	3-8
8405	1-3	8667	3-8
8407	2-4	8670	3-8
8412	3-10	8671	5-7
8415	1-6	8672	3-6
8420	5-8	8679	5-7
8428	4-6	8683	1-8
8439	6-9	8696	5-6
8441	2-6	8746	5-8
8443	3-4	8764	4-6
8447	3-9	8768	6-9
8452	1-6	8770	1-10
8457	5-9	8782	1-5
8460	1-9	8786	2-6
8465	3-9	8796	5-8
8483	2-3	8806	5-8
8491	1-10	8818	5-6
8525	8-9	8854	5-9
8528	3-5	8864	2-10
8536	6-9	8886	1-9
8541	4-10	8890	1-9
8558	7-9	8895	5-9
8562	3-9	8904	6-10
8563	1-4	8906	6-9
8580	7-8	8919	1-8
8590	5-6	8927	4-6
8591	5-9	8951	8-9
8591	4-6	8963	3-6
8602	1-4	8972	1-5
8607	4-8	8987	4-8
8609	1-6	8995	1-3
8622	4-5	8997	5-8
8628	1-2	9002	2-6
8634	3-4	9020	8-10
8636	4-9	9028	4-10
8637	1-3	48-34-2	1-5
8640	1-8	48-40-8	4-7
8645	6-10		

<u>Symbol</u>	<u>Translocation</u>	<u>Symbol</u>	<u>Translocation</u>
001-3	1-10	015-9	1-10
001-5	8-10	015-10	5-9
001-13	1-8	016-15	7-8
001-15	3-7	016-17	3-6
001-15	2-6	017-3	1-2
002-12	4-5	017-18	2-4
002-16	2-5	018-3	2-4
002-17	5-8	018-4	4-5
002-19	1-4	018-5	1-5
003-5	2-8	018-18	1-2
003-16	4-6	019-1	2-5
004-3	7-8	019-3	7-10
004-7	3-7	020-5	3-9
004-7	4-9	020-7	5-9
004-11	1-2	020-19	1-8
004-13	2-4	021-1	7-8
004-17	5-6	021-3	4-5
005-7	1-8	021-5	4-10
005-14	2-3	022-4	2-7
006-7	4-5	022-11	5-9
006-10	2-8	022-15	7-10
006-11	5-10	022-20	5-10
006-17	3-4	023-2	2-3
007-17	5-8	023-5	2-3
007-19	1-10	023-13	5-7
008-17	1-8	023-15	2-5
008-18	5-9	024-1	6-8
009-19	2-5	024-5	1-5
010-4	2-4	024-7	1-9
010-10	2-3	024-11	3-8
010-12	1-7	024-14	1-3
011-7	2-4	024-16	4-10
011-11	6-7	025-4	2-5
011-16	4-6	025-12	4-6
011-20	2-8	026-2	1-8
012-16	3-4	027-4	2-6
013-3	5-7	027-6	6-7
013-8	6-7	027-9	7-9
013-9	1-3	027-10	4-5
013-11	5-8		
013-17	2-8		
014-5	5-8		
014-12	2-3		
014-17	7-8		
015-3	2-5		