

Chromosome 10--18, sp₂, pg₁, f₃, xn₁, l₄
 Unplaced--bl₁, bn₂, ml, ps
 A-B Translocations--TB-6a, TB-7a.

Requests for stocks should be sent to the Botany Department, University of Illinois, Urbana, Illinois. The listing of Maize Cooperative stocks below includes the more useful combinations which are presently available. Many additional combinations not specifically listed can be supplied or may be derived from segregating progenies.

Chromosome 1

ad₁ an₁ bm₂
 ad₁ Kn
 an₁ Kn bm₂
 as
 Hm
 Kn
 lw₁
 necrotic 81147-31
 pCR
 pCW
 pMO
 (pOR)
 PRR ad₁ an₁
 PRR ad₁ bm₂
 PRR an₁ gs₁ bm₂
 PRR br₁ f₁ an₁ gs₁ bm₂
 PRR br₁ f₁ gs₁ bm₂
 PVV
 PWR bm₂
 PWR gs₁ bm₂
 PWW br₁ f₁ bm₂
 sr₁ PWR an₁ bm₂
 sr₁ PWR an₁ gs₁ bm₂
 sr₁ zb₄ PWW
 ts₂ PWW br₁ bm₂
 Ts₃
 Ts₆
 Vg
 vp₅
 vp₈
 zb₄ ms₁₇ PWW
 zb₄ PWW bm₂
 zb₄ PWW br₁
 zb₄ ts₂ PWW

Chromosome 2

al lg₁
 al lg₁ gl₂ B sk
 al lg₁ gl₂ b sk
 ba₂
 fl₁
 lg₁ gl₂ B
 lg₁ gl₂ b
 lg₁ gl₂ b fl₁ v₄
 lg₁ gl₂ b fl₁ v₄ Ch
 lg₁ gl₂ B sk v₄
 lg₁ gl₂ b sk v₄
 lg₁ gl₂ b sk fl₁ v₄
 lg₁ gl₂ B v₄
 lg₁ gl₂ b v₄
 lg₁ gl₂ b v₄ Ch
 lg₁ gl₂ gs₂ b v₄
 lg₁ gl₂ gs₂ b v₄ Ch
 lg₁ gs₂ b v₄
 ws₃ lg₁ gl₂ B
 ws₃ lg₁ gl₂ b
 ws₃ lg₁ gl₂ b fl₁ v₄; A₁ A₂ C R
 ws₃ lg₁ gl₂ B sk
 ws₃ lg₁ gl₂ b sk

Chromosome 3

A₁ ga₇; A₂ C R
 A₁ sh₂; A₂ C R
 Ad-31; A₂ C R
 Ad-31 sh₂; A₂ C R
 s^p et; A₂ C R Dt₁
 a₁; A₂ C R B Fl dt₁
 a₁ et; A₂ C R Dt₁
 a₁ sh₂; A₂ C R Dt₁
 a₁ sh₂; A₂ C R dt₁
 a₁ sh₂ et; A₂ C R Dt₁
 a₁st sh₂; A₂ C R Dt₁
 a₁st et; A₂ C R Dt₁
 a_{x-1}; A₂ C R
 a_{x-3}; A₂ C R
 a_{x-3} et; A₂ C R
 an₂ = allele of d₁
 ba₁
 Cg
 cr₁
 d₁
 d₁ gl₆

Chromosome 3 (Continued)

d₁ gl₆ lg₃
 d₁ lg₂
 d₁ lg₃
 d₁ fg₂
 d₁ Rg
 d₁ ts₄ lg₂
 d₂
 gl₆
 gl₆ lg₂ a₁ et; A₂ C R Dt₁
 gl₆ lg₃
 gl₆ Rg
 gl₆ v₁₇
 gl₇
 lg₂ A₁^b et; A₂ C R Dt₁
 lg₂ a₁ et; A₂ C R Dt₁
 lg₂ a₁ sh₂ et; A₂ C R Dt₁
 lg₂ a₁st et; A₂ C R Dt₁
 lg₂ pm
 lg₃
 pg₂
 pm
 ra₂
 ra₂ lg₂ pm
 ra₂ pm
 ra₂ Rg
 Rg
 rt; A₁ A₂ C R
 ts₄ n₅₁
 vp₁
 Primary trisome 3

Chromosome 4

lm₃
 bt₂
 de(1 or 16?)
Ga₁ Su₁
 ga₁ su₁
 gl₃
 j₂
 la su₁ gl₃
 la su₁ Tu gl₃
 lo Su₁
 lo su₁
 lw₄; lw₃
 o₁
 sp₁ su₁

Chromosome 4 (Continued)

st
 su₁ bm₃
 su₁ gl₃
 su₁ gl₄
 su₁ j₂ gl₃
 su₁ Tu
 su₁ Tu gl₃
 su₁ zb₆
 su₁ zb₆ gl₃
 su₁ zb₆ Tu
 su₁ am
 Ts₅
 Ts₅ su₁
 Tu gl₃
 v₈

Chromosome 5

a₂; A₁ C R
 a₂ bm₁ pr v₂; A₁ C R
 a₂ bt₁ pr; A₁ C R
 a₂ bt₁ pr; seg bm₁ bv₁; may seg v₂; A₁ C R
 a₂ pr; A₁ C R
 ae
 bm₁ bt₁ bv₁ pr; a₁ A₂ C R
 bm₁ pr ys₁ v₂; A₁ A₂ C R
 bm₁ yg₁
 bt₁ pr; A₁ A₂ C R
 Ga Bt₁
 ga bt₁
 gl₅
 gl₈
 gl₁₇ a₂ bt₁ v₂; A₁ C R
 gl₁₇ v₂
 intensifier of pr closely linked to bt₁
 lw₂
 lw₃; lw₄
 na₂
 pr; A₁ A₂ C R
 sh^f₁ = "sh₄"
 "sh₃" = allele of bt₁
 tn
 v₃ pr; A₁ A₂ C R
 v₁₂
 vp₂ gl₈
 vp₂ pr; A₁ A₂ C R
 vp₇
 vp₇ pr; A₁ A₂ C R

Chromosome 6

at = allele of si₁
 po Y₁ pl
 po y₁ pl
 Pt
 si₁ Y₁ Pl
 si₁ Y₁ pl
 si₁ y₁ pl
 y₁ l₁₀
 Y₁ ms(1?)
 y₁ ms(1?)
 Y₁ pb₄ pl
 y₁ pb₄ Pl
 y₁ pb₄ pl
 Y₁ pg₁₁ pl; wx pg₁₂
 Y₁ Pl Bh
 Y₁ pl Bh
 Y₁ Pl sm py; A₁ A₂ b P^{RR}
 Y₁ pl su₂
 y₁ pl su₂
 Y₁ Pl; seg w₁
 y₁ pl; seg w₁
 Y₁ Pl; seg w₁
 y₁ pl; seg w₁
 "male sterile-silky" = allele of si₁
 "orobanche" (seedling)
 "ragged" (seedling)
 "white 8522" (seedling)
 "white 8896" (seedling)

Chromosome 7

bd
 Bn₁
 G₂
 gl₁ sl Bn₁
 Hs
 ij
 in; pr A₁ A₂ C R
 o₂
 o₂ gl₁ sl
 o₂ gl₁ sl Bn₁
 o₂ ra₁ gl₁
 o₂ v₅ gl₁; seg ra₁
 o₂ v₅ ra₁ gl₁
 o₂ v₅ ra₁ gl₁ Hs
 ra₁ gl₁
 Tp₁
 v₅ gl₁ Tp₁
 va₁
 vp₉ gl₁; wx

Chromosome 8

mn

v₁₆ ms₈ j₁v₁₆ ms₈ j₁; l₁

"necrotic 6697" (seedling)

"sienna 7748" (seedling)

Chromosome 9au₁ au₂Bf₁bk₂ ms₂₀bk₂ Wcbm₄C sh₁ wx; A₁ A₂ Rc sh₁ wx; A₁ A₂ Rc sh₁ wx gl₁₅; A₁ A₂ Rc wx; A₁ A₂ Rc wx bk₂; A₁ A₂ RDt₁ (See Chromosome 3 stocks)I wx; A₁ A₂ R Pr B plI wx; A₁ A₂ R pr B pll₇ms₂ms₂ sh₁; A₁ A₂ C Rms₂₀sh₁ wx d₃sh₁ wx l₇sh₁ wx pg₁₂; y pg₁₁ plsh₁ wx v₁

wx ar

wx Bf₁wx bk₂wx d₃wx da₁; A₁ A₂ C Rwx g₁wx l₇wx pg₁₂; y pg₁₁ plwx^aYG₂ c sh₁ wx; A₁ A₂ RYG₂ C sh₁ bz wx; A₁ A₂ R

Primary trisome 9

Chromosome 10a₃bf₂du₁

Chromosome 10 (Continued)

g₁
 g₁ l₂
 g₁ r_g; A₁ A₂ C
 g₁ r sr₂
 g₁₉
 l₁; v₁₆ ms₈ j₁
 li g₁ R; A₁ A₂ C
 li g₁ r; A₁ A₂ C
 li g₁ r; A₁ A₂ C; carries abnormal 10
 nl₁ g₁ R; A₁ A₂ C
 Og R; A₁ A₂ C B Fl
 R_g sr₂
 r^r sr₂
 R_{mb}; A₁ A₂ C
 R_{nj}; A₁ A₂ C
 R_{st}; A₁ A₂ C
 v₁₈
 w₂
 zn
 "oil yellow" (seedling and plant)
 Primary trisome 10

Unplaced genes

cl
 ct
 de₁₇
 dv
 dy
 fl₂
 gl₁₁
 gl₁₂
 gl₁₄
 gl₁₆
 gl_g
 h
 l₃
 ms₅
 ms₆
 ms₇
 ms₉
 ms₁₀
 ms₁₁
 ms₁₂
 ms₁₃
 ms₁₄
 Mt
 New starchy

Unplaced genes (Continued)

ra₃
rd
Rs₁
rs₂
"sh₅"
tw₁
tw₂
v₁₃
va₂
vp₆
ws₁ ws₂
zb₁
zb₂
zb₃

Multiple gene stocks

A₁ A₂ C R^F Pr B Pl
A₁ A₂ C R^G Pr B Pl
A₁ A₂ C R^G Pr B pl lg₁ y
A₁ A₂ C R Pr
" Pr wx
" Pr wx gl₁
" Pr wx y
" pr
" pr su₁
" pr su₁ y wx
" pr y gl₁
" pr y wx
" pr y wx gl₁
A₁ A₂ c R Pr su₁
" y wx
" y sh₁ wx
A₁ A₂ C r Pr su₁
" su₁ y gl₁
" y wx
" y sh₁ wx
bm₂ lg₁ a₁ su₁ pr-y₁ gl₁ j₁ wx gl₁
colored scutellum
lg₁ su₁ bm₁ y₁ gl₁ j₁
su₁ y₁ wx a₁ A₂ C R^G pr
y₁ su₁ ra₁ gl₁
y₁ wx gl₁

Popcorns

Amber Pearl
Black Beauty
Hulless

Popcorns (Continued)

Ladyfinger
 Ohio Yellow
 Red
 South American
 Supergold

Exotics and Varieties

Argentine Popcorn
 Black Mexican Sweet Corn (with B chromosomes)
 Black Mexican Sweet Corn (without B chromosomes)
 Gourdseed
 Maiz chapolote
 Papago Flour Corn
 Parker's Flint
 Strawberry Popcorn
 Tama Flint
 Tom Thumb Popcorn
 Zapaluta chica

Chromosome rearrangements

A selected group of chromosome rearrangements, whose breakpoints mark most of the regions of the ten chromosomes, is being maintained primarily for use in determining the chromosome locations of new traits. Two inversions, Inv 2a and Inv 9a, are included. All of the rearrangements are marked with closely-linked endosperm or seedling traits.

The cytological positions of Inv 2a were determined by Dr. Morgan; those of Inv 9a were determined by Dr. Li. The indicated interchange points of the reciprocal translocations are taken from published work of Dr. Longley.

Inversions

lg₁ or gl₂ Inv 2a (also available with Ch) 2S.7; 2L.8
 wx Inv 9a 9S.7; 9L.9

Reciprocal translocations

wx 1-9c	1S.48; 9L.22
wx 1-9 4995	1L.19; 9S.20
wx 2-9b	2S.18; 9L.22
wx 3-9c	3L.09; 9L.12
wx 3-9 5775	3L.09; 9S.24
wx 4-9b	4L.90; 9L.29
wx 4-9 5657	4L.33; 9S.25

Reciprocal translocations (Continued)

wx 4-9g	4S.27; 9L.27
wx 5-9a	5L.69; 9S.17
wx 5-9c	5S.07; 9L.10
wx 5-9 4817	5L.06; 9S.07
wx 5-9 5614	5L.09; 9L.06
wx 6-9a	6S.79; 9L.40
wx, y 6-9b	6L.10; 9S.37
wx 6-9 4505	6L.13; 9 cent
wx 6-9 4778	6S.80; 9L.30
wx 7-9a	7L.63; 9S.07
wx or gl ₁ 7-9 4363	7 cent; 9 cent
wx 8-9d	8L.09; 9S.16
wx 8-9 6673	8L.35; 9S.31
wx 9-10b	9S.13; 10S.40
su 1-4a (also available with PRR)	1L.51; 4S.69
su 1-4d (also available with PRR)	1L.27; 4L.30
su 4-5j	4L.21; 5L.36
su, y 4-6a	4L.37; 6L.43
su 4-8a	4S.59; 8L.19
su, R 4-10b	4L.15; 10L.60
y 1-6c (also available with PRR)	1S.25; 6L.27
gl ₂ 2-3c	2S.46; 3S.52
gl ₂ 2-3 5304	2S.62; 3L.29
gl ₂ 2-6b	2S.69; 6L.49
gl ₂ ; R 2-10b	2S.50; 10L.75
gl ₁ , 6-7 4545	6L.25; 7S.73

Stocks of A-B chromosome translocations

B-1a	1L.2	Proximal to <u>Hm</u>
B-1b	1S.05	
B-3a	3L.1	
B-4a	4S.25	Proximal to <u>su</u> ₁
B-7b	7L.3	Proximal to <u>ra</u> ₁
B-9a	9L.5	
B-9b	9S.4	Between <u>C</u> and <u>wx</u> ; close to <u>wx</u>
B-10a	10L.35	Proximal to <u>g</u> ₁

Earl B. Patterson