

Crosses for corn lab (updated for Fall 2007)

Box 1&2. parental cross RR X rr

F1 all Rr

Cross : Rr X Rr

F2 phenotypic ratio 3 purple : 1 yellow

Box 10. parental cross RR X rr

F1 all Rr

Cross : Rr X rr

F2 phenotypic ratio 1 purple : 1 yellow

Box 3&4. parental cross RRSuSu X rrsusu

F1 all RrSusu

Cross : RrSusu X RrSusu

F2 phenotypic ratio: 9 purple starchy: 3 purple sweet: 3 yellow starchy: 1 yellow sweet

Box 5. parental cross RRSuSu X rrsusu

F1 all RrSusu

Cross : RrSusu X rrsusu

F2 phenotypic ratio: 1 purple starchy: 1 purple sweet: 1 yellow starchy: 1 yellow sweet

Box6. parental cross C'C'SuSu X CCsusu

F1 all C'CSusu

Cross : C'CSusu X C'CSusu

F2 phenotypic ratio: 9 yellow starchy: 3 yellow sweet: 3 purple starchy: 1 purple sweet

Box 7. parental cross C'C'YY X CCyy

F1 all C'CYy

Cross : C'CYy X C'CYy

F2 phenotypic ratio: 9 yellow: 3 white: 4 purple

9 C'_Y_ = yellow

3 C'_yy = white

3 CCY_ = purple

1 CCyy = purple

Box 8. parental cross C'C'RR X CCrr

F1 all C'CRr

Cross : C'CRr X C'CRr

F2 phenotypic ratio: 13 uncolored: 3 colored

9 C'_R_ = uncolored

3 C'_rr = uncolored

3 CCR_ = colored

1 CCrr = uncolored

Box 9. parental cross CCrr X ccRR

F1 all CcRr

Cross : CcRr X CcRr

F2 phenotypic ratio: 9 colored: 7 uncolored

9 C_R_ = colored

3 C_rr = uncolored

3 ccR_ = uncolored

1 ccrr = uncolored