

7/5 Female: ER 30-952 Female: ER 23-956

5-July KK

W/1st P +1st +1st

7/5

Male Nes 70

Cross 29-962 Color/Dir. green, N

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male Nes 45

Cross 24-951 Color/Dir. Pink, W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Blue twist

Male Nes 69

Cross 24-963 Color/Dir. green, S

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male Nes 11

Cross 28-946 Color/Dir. Blue, W

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

Male Nes 72

Cross 30-973 Color/Dir. Purple, NE

1	2	3	4	5
P	X	X	X	X

SP (Y/N)

Male SAP 38

Cross 16-943 Color/Dir. blue - first row - cir twist

1	2	3	4	5
X	X	X	P	O

SP (Y/N)

Male SAP 16/24

Cross 16-959 Color/Dir. White, E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 63/57

Cross 36-951 Color/Dir. pink 1st row

1	2	3	4	5
P	P	P	P	

SP (Y/N)

7/6 couldn't find 5th pink

Male SAP 10/24 12/28

Cross 18-943 Color/Dir. Purple, W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 66

Cross 14-949 Color/Dir. gm # 7/7 JK

1	2	3	4	5
X	X	X	X	P

SP (Y/N)

Male ER 23

Cross 17-945 Color/Dir. White, W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 23/42

Cross 17-945 Color/Dir. SLV 7/7 GK

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

Male ER 61

Cross 24-946 Color/Dir. Pink, NW

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 61/60

Cross 24-946 Color/Dir. wht SW

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male ER 13

Cross 17-942 Color/Dir. Pink, SE

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 13/33/40

Cross 17-942 Color/Dir. yellow SE

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

7/8

Male ER 62

Cross 22-959 Color/Dir. White, NW

1	2	3	4	5
P	P	P	P	X

SP (Y/N)

Male 62/79

Cross 22-959 Color/Dir. +trq N

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

Male

Cross Color/Dir.

1	2	3	4	5

SP (Y/N)

Male 14/32/52

Cross 30-952 Color/Dir. SLV NE

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

+ 1 style to past printed 7/9

black twist

\* 7/7 blu hd looks done. \* pink NE 67

Female: ER 24-946

Female: ER 21-953 dr H

5-July  
grn twist

7/8

grn twist

vid twist

7/6

already shriveled

2 already shriveled

Red 7/7

7/7

Red 7/7

Red 7/7

Red 7/7

Male ~~000000~~ Nes S O <sup>towards top of head</sup>

Cross 30-971 Color/Dir. Purple, S

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 67/82 blk hd

Cross 22-968 Color/Dir. trq E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male Nes 43

Cross 18-963 Color/Dir. White, E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male SAP 55

Cross 30-959 Color/Dir. White, N

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male <sup>grn twist</sup> 80/48/58

Cross 27-959 Color/Dir. white, W

1	2	3	4	5
	X	X	X	X

SP (Y/N)

Male <sup>grn twist</sup> 76/73

Cross 31-947 Color/Dir. Pink, N

1	2	3	4	5
		X	X	X

SP (Y/N)

Male 23/42

Cross 17-945 Color/Dir. Lav, E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 13/33/40

Cross 17-942 Color/Dir. Whk, S

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 79/62

Cross 22-959 Color/Dir. Lav, W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 14/32/52

Cross 30-952 Color/Dir. Pnk, NE

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male PC 32 30-952

silver Color/Dir.

P 1	X 2	X 3	X 4	X 5
S	SE	SE	SE	E

SP (Y/N) 1 Julio AD

Male PC 36 33-952

green Color/Dir. <sup>already shriveled</sup>

P 1	P 2	P 3	X 4	P 5
SW	W	W	W	W

SP (Y/N) 1 Julio AD

Male PC 30 35-957

white Color/Dir. 1 Jul 2010 AD

NW 1	N 2	N 3	N 4	N 5
P	X	P	P	P

SP (Y/N) -also 1 gray style -NW

Male SAP 56 <sup>already shriveled 5-july</sup>

Cross 32-943 Color/Dir. yellow, S

1	2	3	4	5
X	X	X		X

SP (Y/N)

Male 7/7

Cross 16-956 Color/Dir. ~~BOOTS~~ <sup>trq top + mor</sup>

1	2	3	4	5
X	X	X	X	X

SP (Y/N) 7/7

Male ER 23

Cross 17-945 Color/Dir. Pink, N

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

Male ER 61

Cross 24-946 Color/Dir. <sup>grn + 1 purple, E</sup>

1	2	3	4	5
X	X	X	X	X

SP (Y/N) purple hact next to green

Male ER 33

Cross 17-942 Color/Dir. gray, NW

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male ER 62

Cross 22-959 Color/Dir. aqua, W <sup>(cross to top of plain head)</sup>

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

Male

Color/Dir.

1	2	3	4	5

SP (Y/N)

7/7 last day

Female: SAP 16-956

Female: Nes 30-971

7/9

Male 7/1/36 33-952  
 Cross Color/Dir. grn hd prpl NW  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male ~~00000~~ 46/53  
 Cross Color/Dir. purple, NW  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

7/8

Male PC15/30 35-952  
 Cross Color/Dir. bla hd  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male ~~00000~~ 10/34  
 Cross Color/Dir. white, E  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

7/8

Male 30-952 bla hd  
 Cross Color/Dir. Yel S  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 64/81  
 Cross Color/Dir. white, NE (below aqua)  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

7/8

Male 22-959 blu hd  
 Cross Color/Dir. slv NW  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 16/24/37  
 Cross Color/Dir. aqua, N  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

7/8

Male 30-959 grn hd  
 Cross Color/Dir. slv E  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 12/28/41  
 Cross Color/Dir. pink, N  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

7/8

Male 27-959 grn hd  
 Cross Color/Dir. grn S  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 70/74  
 Cross Color/Dir. aqua, NW  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

7/7

Male 31-947 bla hd  
 Cross Color/Dir. pink SE  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 69/75  
 Cross Color/Dir. aqua, S  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 16-959 hd bl  
 Cross Color/Dir. purple NE  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 72/83  
 Cross Color/Dir. yel top S, E  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 18-943 hd bla  
 Cross Color/Dir. wht W  
 SP (Y/N) 

1	2	3	4	5
P	P	P	P	

Male 71/36  
 Cross Color/Dir. grn top W  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male  
 Cross Color/Dir.  
 SP (Y/N) 

1	2	3	4	5

Male 15/30  
 Cross Color/Dir. slv top N  
 SP (Y/N) 

1	2	3	4	5
X	X	X	X	P

7/8

done pg 4

Female: Nes 35-957

Female: SAP 32-943

7/6

Male PC 32 30-952 <sup>upper Purp/SW</sup>  
Color/Dir. ~~SW~~

Male PC 32 30-952  
Color/Dir. wht/E

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male PC 36 33-952  
Color/Dir. Grn/W

Male PC 36 33-952  
Color/Dir. Purp/SE

Cross	1	2	3	4	5
SP (Y/N)	P	P	P	P	X

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male 24 Nes  
29-967 Color/Dir. Wht/W

Male PC 30 35-957  
Color/Dir. yel/S

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male Nes 69 <sup>(the lower Apr. N)</sup>  
24-963 Color/Dir. Aqua/N

Male 22-959  
ER 29/62 Color/Dir. Pnk/SW

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male Nes 72  
30-973 Color/Dir. Pnk/NW

Male 30-959  
SAP 20/55 Color/Dir. Aqua/NW

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male Nes 71/36 <sup>Purp/N</sup>  
33-952 Color/Dir. ~~SW~~

Male 27-959  
SAP 80/48 Color/Dir. Grn/N

Cross	1	2	3	4	5
SP (Y/N)	P	P	P	P	P

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male 22-959 ER 62  
~~30-952~~ Color/Dir. <sup>upper Aqua/N</sup>

Male 31-947  
SAP 73 Color/Dir. Purp/W

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male ~~30-952~~ 14-949 SAP 66  
~~30-952~~ Color/Dir. Purp/E

Male 16-959  
SAP 16/24/32 Color/Dir. Wht/N

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Male 16-943 SAP 38  
~~30-952~~ Color/Dir. Wht/S

Male 18-943  
SAP 12/28/44 Color/Dir. Pnk/E

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)	P	P	P	P	P

Male 36-951 SAP 63/57  
Color/Dir. Pnk/W

Male  
Color/Dir.

Cross	1	2	3	4	5
SP (Y/N)	X	X	X	X	X

Cross	1	2	3	4	5
SP (Y/N)					

yellow head

wht head

7/6

clear head

blk hd

Female: Nes 29-967

Female: Nes 24-951

7/5  
7/6

Male ER 21

Cross 28-951 Color/Dir. *prpl E*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male

Cross 29-967 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

Male ER 22

Cross 21-953 Color/Dir. *wht W*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male

Cross 24-963 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

Male SAP 20

Cross 30-959 Color/Dir. *traq S*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male

Cross 30-973 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

7/6

Male SAP 48 *wht E*

Cross 27-959 Color/Dir.

1	2	3	4	5
P	X	X	X	X

SP (Y/N)

Male

Cross 33-952 Color/Dir. *prk*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male SAP 23

Cross 31-947 Color/Dir. *Yel W*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male

Cross 35-957 Color/Dir. *traq*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male Nes 69

Cross 24-963 Color/Dir. *prk NW*

X	X	X	X	X
1	2	3	4	5
0	0	0	0	0

SP (Y/N)

Male

Cross 17-945 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

7/5

Male Nes 72

Cross 30-973 Color/Dir. *traq NE*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male

Cross 24-946 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

7/6

Male Nes 36

Cross 33-952 Color/Dir. *grn N*

1	2	3	4	5
X	P	X	X	X

SP (Y/N)

Male

Cross 17-942 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

Male Nes 30

Cross 35-957 Color/Dir. *prk NE*

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male

Cross 32-943 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

Male

Cross Color/Dir.

1	2	3	4	5

SP (Y/N)

Male

Cross 16-956 Color/Dir.

1	2	3	4	5

SP (Y/N)

X

Done Flowering  
7/6/10  
Flower Died  
head

ER

Female: 28-951

Female: Nes 33-952 - green H

1 Jul 2010 AD

Male Nes 33-952 PC 36

Male ER 30-952 PC 32

1 Jul 2010 AD

CROSS turquoise Color/Dir.

CROSS green Color/Dir.

S 1	S 2	S 3	SE 4	SE 5
X	P	P	P	P

SW 1	S 2	S 3	S 4	S 5
P	P	P	P	P

SP (Y/N)

SP (Y/N)

1 Jul 10 AD CHECK MON

Male ER 30-952 PC 14/32

Male ~~28-951~~ 29-967

CROSS green Color/Dir.

CROSS Nes 70 Color/Dir. Pnk S

NE 1	E 2	SE 3	SE 4	S 5
P	X	X	P	X

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

1 Jul 10 AD

Male Nes 35-957 PC 15/30

Male 35-957

CROSS turquoise Color/Dir. NW - all 5

CROSS Nes 15 Color/Dir. Wht E

✓ 1	✓ 2	✓ 3	✓ 4	✓ 5
P	P	X	X	P

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

7/5

Male SAP 25 U, W Trq  
4u, Bt Yel, grn, trq, pink

Male Nes 69

CROSS 32-943 Color/Dir.

CROSS 24-963 Color/Dir. Wht W

1	2	3	4	5
X	X	X	X	X

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

Male ~~16-956~~

Male Nes 72

CROSS 16-956 Color/Dir.

CROSS 30-973 Color/Dir. Gm E

1	2	3	4	5

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

Male ER 23 pink, trq, gfy NW

Male Nes 36

CROSS 17-945 Color/Dir.

CROSS 33-952 Color/Dir. Pnk N

1	2	3	4	5
X	X	X	X	X

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

Male ER 61 wnt, trq, pink SE

Male ER 62

CROSS 24-946 Color/Dir.

CROSS 22-959 Color/Dir. Pnk S

1	2	3	4	5
X	X	X	X	X

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

Male ER 13 gfn, trq, yel top

Male SAP 66

CROSS 17-942 Color/Dir.

CROSS 14-949 Color/Dir. Gm W

grn 1	trq 2	yel 3	4	5
X	X	X		

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

Male ER 62 2u, pink E

Male SAP 38

CROSS 22-959 Color/Dir.

CROSS 16-943 Color/Dir. Gm W

Pnk E 1	u 2	u 3	4	5
X	X	X		

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

Male

Male SAP 63

CROSS Color/Dir.

CROSS 36-951 Color/Dir. Pnk/N

1	2	3	4	5

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

SP (Y/N)

wht hd

7/6

wht head

Gm head

Done flowering

2/4/10 - 7/5/10



7/7

Done  
PS 7

Female: SAP 30-959

Female: SAP 27-959

7/7

Cross Male PC 16/24 16-959  
black teal NE  
Color/Dir.

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male PC 12/28 18-943  
black Color/Dir. green S

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 30-971 blue  
18/50/51 Color/Dir. pink N

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 22-968 blue  
67/82 Color/Dir. white E

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 18-963 black  
35/43 Color/Dir. yellow E

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 24-950 blue  
46/53 Color/Dir. white NW

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 17-938 blue  
16/34 Color/Dir. purple NE

SP (Y/N) 

1	2	3	4	5
P	X	X	X	X

Cross Male 23-956 blue  
64/81 Color/Dir. pink S

SP (Y/N) 

1	2	3	4	5
X	X	X	X	0

Cross Male 27-959 black  
48/58/80 Color/Dir. yellow W

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 31-947 blue  
73/76 Color/Dir. purple NW

SP (Y/N) 

1	2	3	4	5
P	X	X	X	X

Cross Male PC 16/24 16-959  
gold twist  
Color/Dir. aqua, E

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male PC 12/28 18-943  
gold twist  
Color/Dir. white, W

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 30-971  
18/50/51 Color/Dir. purple, W

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 22-968  
67/82 Color/Dir. aqua, W

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 18-963  
35/43 Color/Dir. white S

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 24-950  
46/53 Color/Dir. yellow, N

SP (Y/N) 

1	2	3	4	5
X	X	X	X	

already shriveled toward twist

Cross Male 17-938  
16/34 Color/Dir. pink, N

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 23-956  
64/81 Color/Dir. pink SE

SP (Y/N) 

1	2	3	4	5
P	P	P	P	X

Cross Male 30-959  
48/58/80 Color/Dir. white, NW

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Cross Male 31-947  
73/76 Color/Dir. green, W

SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Female: Nes 24-963

Female: Nes 30-973

7/7

7/6

7/6

Cross Male ER 21  
28-951 Color/Dir. Yel W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male ER 21  
28-951 Color/Dir. pink S

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male ER 22  
21-953 Color/Dir. grn N

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

Cross Male ER 22  
21-953 Color/Dir. traq S

1	2	3	4	5
X	X	X	X	P

SP (Y/N)

Cross Male SAP 20  
30-959 Color/Dir. grn E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male SAP 20  
30-959 Color/Dir. prpl N

1	2	3	4	5
X	P	X	X	X

SP (Y/N)

Cross Male SAP 48  
27-959 Color/Dir. gry N

1	2	3	4	5
X	X	X	X	0

SP (Y/N)

Cross Male SAP 48  
27-959 Color/Dir. grn N

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male SAP 73  
31-947 Color/Dir. prpl S

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male SAP 73  
31-947 Color/Dir. prpl E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male Nes 74  
~~24-963~~ Color/Dir. traq SW

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male Nes 69  
24-963 Color/Dir. grn S

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

Cross Male Nes 72  
30-973 Color/Dir. pink NW

1	2	3	4	5
P	0	0	P	P

SP (Y/N)

Cross Male Nes 74  
29-967 Color/Dir. wht W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male Nes 71  
33-952 Color/Dir. gry E

E 1	E 2	E 3	E 4	S 5
X	X	X	X	X

SP (Y/N)

Cross Male Nes 71  
33-952 Color/Dir. pink N

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Male Nes 15  
35-957 Color/Dir. wht W

1	2	3	4	5
X	X	P	X	X

SP (Y/N)

Cross Male Nes 15/30  
35-957 Color/Dir. traq E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Cross Color/Dir.

1	2	3	4	5

SP (Y/N)

Cross Color/Dir.

1	2	3	4	5

SP (Y/N)



7/6/10

SAP

Female: 16-943

SAP

7/6/10

Female: 31-947

Cross Male Nes 68 black twist  
24-951 Color/Dir. purple

1	2	3	4	5
X	X	P	X	X

Cross Male Nes 11 black twist  
28-946 Color/Dir. grey

1	2	3	4	5
X	X	X	X	P

Cross Male ER 47 black twist  
28-951 Color/Dir. pink

1	2	3	4	5
X	X	X	X	X

Cross Male ER 44 black twist  
21-953 Color/Dir. green

1	2	3	4	5
X	X	X	X	P

Cross Male SAP 20 black twist  
30-959 Color/Dir. green

1	2	3	4	5
X	X	X	X	P

Cross Male SAP 58 yellow twist  
27-959 Color/Dir. pink

1	2	3	4	5
P	P	P	P	P

Cross Male SAP 73 yellow twist  
31-947 Color/Dir. green

1	2	3	4	5
X	X	X	X	X

Cross Male SAP 16 yellow twist  
16-959 Color/Dir. white

1	2	3	4	5
X	X	X	X	X

Cross Male SAP 12 yellow twist  
18-943 Color/Dir. yellow

1	2	3	4	5
X	X	X	X	X

Cross Male Color/Dir.

1	2	3	4	5

Cross Male Nes 18 clear twist  
30-971 Color/Dir. purple

1	2	3	4	5
X	X	X	X	X

Cross Male Nes 82 clear twist  
22-968 Color/Dir. white

1	2	3	4	5
X	X	X	X	X

Cross Male Nes 35 clear twist  
18-963 Color/Dir. pink

1	2	3	4	5
X	X	X	X	X

Cross Male ER 81 clear twist  
23-956 Color/Dir. green

1	2	3	4	5
X	X	X	X	X

Cross Male ER 10 black twist  
17-938 Color/Dir. green

1	2	3	4	5
P	P	P	P	P

Cross Male ER 46 black twist  
24-950 Color/Dir. teal

1	2	3	4	5
X	X	X	X	X

Cross Male SAP 20 black twist  
30-959 Color/Dir. grey

1	2	3	4	5
P	P	P	P	P

Cross Male SAP 80/48/58 black twist  
27-959 Color/Dir. yellow E

1	2	3	4	5
X	X	X	X	X

Cross Male SAP 16/24/37 black twist  
16-959 Color/Dir. yellow W

1	2	3	4	5
X	X	X	X	X

Cross Male SAP 12/28/41 black twist  
18-943 Color/Dir. grey N second row

1	2	3	4	5
X	X	X	X	X

7/6

7/6

7/7

14-949 died as of 7/7  
-unable to do crosses

Female: SAP 18-943  
20/55

Female: SAP ~~14-949~~ 18-944

Male ~~20/55~~ ~~10/20/55~~ 30-959 <sup>underground been</sup>  
Cross ~~10/20/55~~ Color/Dir. ~~20~~ <sup>freq N</sup>  
SP (Y/N) 

1	2	3	4	5
P	X	X	X	X

Male 12/28/14  
Cross 18-943 Color/Dir. SIV SE  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male PC 16/24 <sup>yel hd</sup>  
Cross 16-959 Color/Dir. <sup>whit east</sup>  
SP (Y/N) 

1	2	3	4	5
X	P	P	P	P

Male 16/24/37  
Cross 16-959 Color/Dir. <sup>tra E</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male Nes 70 <sup>grey yellow twistie</sup>  
Cross 29-967 Color/Dir.  
SP (Y/N) 

1	2	3	4	5
X	X	P	X	X

Male 68/44  
Cross 24-951 Color/Dir. <sup>grn NE</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male Nes 69 <sup>yellow twistie</sup>  
Cross 24-963 Color/Dir. <sup>prpl</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 11/31/59 <sup>whit N</sup>  
Cross 28-946 Color/Dir.  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male Nes 72 <sup>yellow twistie</sup>  
Cross 30-973 Color/Dir. <sup>yellow twistie</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 21/47/49 <sup>prnk NW</sup>  
Cross 28-951 Color/Dir. <sup>spek of 20/55 fed on prnk style #3</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male ER 23 <sup>clear twistie</sup>  
Cross 17-945 Color/Dir. <sup>white</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 20/55 <sup>prpl NW</sup>  
Cross 30-959 Color/Dir.  
SP (Y/N) 

1	2	3	4	5
P	P	P	P	P

Male ER 61 <sup>clear twistie</sup>  
Cross 24-946 Color/Dir. <sup>prpl</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 48/58/80  
Cross 27-959 Color/Dir. <sup>whit SW</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male ER 13 <sup>red twistie</sup>  
Cross 17-942 Color/Dir. <sup>pink</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 73/76 <sup>grn SSW</sup>  
Cross 31-947 Color/Dir.  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male SAP 48 <sup>red twistie</sup>  
Cross 27-959 Color/Dir. <sup>prpl</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male 22/44 <sup>yel S</sup>  
Cross 21-953 Color/Dir.  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male SAP 73 <sup>red twistie</sup>  
Cross 31-947 Color/Dir. <sup>white</sup>  
SP (Y/N) 

1	2	3	4	5
X	X	X	X	X

Male  
Color/Dir.  

1	2	3	4	5

7/7

one prnk used  
6 yellow  
one prnk used

7/5

7/6/10 last day

ants present on ~~old~~ chr +t

7/7 Female: Nes 18-963 Female: Nes 28-946 7/7

Male ~~00000~~ 46/53 clr hd  
 Cross 24-950 Color/Dir. *yel S*  
 SP (Y/N) 

1	2	3	4	5
P	X	X	X	X

Male ~~00000~~ 70/74  
 Cross 29-967 Color/Dir. *aqua, W*  
 SP (Y/N) 

X	X	X	X	X
<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>

Male ~~00000~~ 10/34 clr hd  
 Cross 17-938 Color/Dir. *grey S*  
 SP (Y/N) 

X	X	X	X	0
---	---	---	---	---

Male ~~00000~~ 69/75 3 already shiveled  
 Cross 24-963 Color/Dir. *yellow W* \* crosses the 2  
 SP (Y/N) 

X	X		X	X
---	---	--	---	---

 closest to top  
 of head

Male 64/81 clr hd  
 Cross 23-956 Color/Dir. *yel NE*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 72/83  
 Cross 30-973 Color/Dir. *Purple, S*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 16/24/37 clr hd  
 Cross 16-959 Color/Dir. *prpl S*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 71/36  
 Cross 33-952 Color/Dir. *white, SE*  
 SP (Y/N) 

P	X	X	X	X
---	---	---	---	---

Male 12/28/41 *grn hd / w/it first*  
 Cross 18-943 Color/Dir. *bt's w/it W*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 15/30 2 already shiveled  
 Cross 35-957 Color/Dir. *purple, N*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

 ✓ again

Male 70/74 *grn hd*  
 Cross 29-967 Color/Dir. *purple N*  
 SP (Y/N) 

X	X	P	X	X
---	---	---	---	---

Male 23/42 already shiveled  
 Cross 17-945 Color/Dir. *Pink, W*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 69/75 *grn hd*  
 Cross 24-963 Color/Dir. *grn 1st 2nd*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 61/60  
 Cross 24-946 Color/Dir. *white, N*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 72/83 *grn hd*  
 Cross 30-973 Color/Dir. *trg E*  
 SP (Y/N) 

X	X	X	X	0
---	---	---	---	---

Male 13/33/40  
 Cross 17-942 Color/Dir. *aqua, W*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

 one SW  
 below purple

Male 71/36 *grn hd*  
 Cross 33-952 Color/Dir. *whit SE*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 25/56  
 Cross 32-943 Color/Dir. *white, SW*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 15/30 *pink W*  
 Cross 35-937 Color/Dir. *grn hd*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

Male 78/77  
 Cross 16-956 Color/Dir. *Pink, NE*  
 SP (Y/N) 

X	X	X	X	X
---	---	---	---	---

\* close to end of flowering  
 possibly do 35-957 and  
 24-963 again  
 done flowering 7/9

7/5

Female: ER 12-942

Female: ER 24-950

\* on yellow and white Twist tie head, all other paint colors have 3 or more shirveled styles very little pollen used... may not be completely pollinated

Male ~~000000~~ Nes 51  
 head w/wh ~~wh~~ twist/upper wh/N Furthest West is already shirveled

CROSS 30-971 Color/Dir.   

1	2	3	4	5
X	P	P	P	O

 SP (Y/N)

Male ~~000000~~ 68/45

CROSS 24-951 Color/Dir. green E  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male Nes 67

CROSS 22-968 Color/Dir. Grn head/Purple E  

1	2	3	4	5
X	X	X	X	P

 SP (Y/N)

Male 11/31/59 Dink SE

CROSS 28-946 Color/Dir.  

1	2	3	4	5
X	X	X		

 SP (Y/N) 3 last 2 could not locate

Male head/ Nes 36

CROSS 18-963 Color/Dir. G/Pnk/S  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 38/39 yellow NE

CROSS 16-943 Color/Dir.  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male ~~000000~~ Nes 20

CROSS 30-959 Color/Dir. Gr/Wht/SW  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 63/57 Grey N

CROSS 36-951 Color/Dir.  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male head/ 80/48/56 blue/white

CROSS 27-959 Color/Dir. white NE  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 66 white SW

CROSS 14-949 Color/Dir.  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male head/ 76/73 blue twist

CROSS 31-947 Color/Dir. purple SE  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 23/42

CROSS 17-945 Color/Dir. Grey N  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 23/42 blue twist

CROSS 17-945 Color/Dir. white S  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 61/60

CROSS 24-946 Color/Dir. Purple NW  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 61/60 blue twist

CROSS 24-946 Color/Dir. pink N  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 13/33/40

CROSS 17-942 Color/Dir. Grn W (upper)  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 29/62 white twist

CROSS 22-959 Color/Dir. purple E  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 62/79

CROSS 22-959 Color/Dir. Pink SW  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

Male 14/32/52 white twist

CROSS 30-952 Color/Dir. yellow S  

1	2	3	4	5
P	X	X	X	X

 SP (Y/N)

Male 14/32/52

CROSS 30-952 Color/Dir. Teal S (upper)  

1	2	3	4	5
X	X	X	X	X

 SP (Y/N)

completely painted

style 22-968  
grn hd tra SW

7/9

1	2	3	4	5
X	X	X	X	X

7/6

7/7

7/7

Female: Nes 22-968

Female: ER 22-959

7/7

Wht  
hd

Wht  
hd

Male 46/53  
Cross 24-950 Color/Dir. ppl NW

1	2	3	4	5
X	X	X	X	X

Male 10/34  
Cross 17-938 Color/Dir. pink N

1	2	3	4	5
X	X	X	X	X

Male 64/81  
Cross 23-956 Color/Dir. trq E

1	2	3	4	5
P	P	P	P	X

Male 16/24/37  
Cross 16-959 Color/Dir. Wht SE

1	2	3	4	5
X	X	X	X	X

Male 12/28/41  
Cross 18-943 Color/Dir. trq SW

1	2	3	4	5
X	X	X	X	X

Male 20/74  
Cross 29-967 Color/Dir. trq NE

1	2	3	4	5
X	X	X	X	X

Male 69/75  
Cross 24-963 Color/Dir. ppl SE

1	2	3	4	5
P	P	P	P	X

Male 72/83  
Cross 30-973 Color/Dir. trq S

1	2	3	4	5
P	P	P	P	P

Male 71/36  
Cross 33-952 Color/Dir. Wht NW

1	2	3	4	5
X	X	X	X	X

Male 15/30  
Cross 35-957 Color/Dir. pink N

1	2	3	4	5
P	X	X	X	X

Male  
Cross 29-967 Color/Dir. 70/74

1	2	3	4	5
X	X	X	X	X

Male  
Cross 24-963 Color/Dir. 69/75

1	2	3	4	5
X	X	X	X	X

Male  
Cross 30-973 Color/Dir. 72/83

1	2	3	4	5
X	X	X	X	X

Male 16/24/37  
Cross 16-959 Color/Dir.

1	2	3	4	5
X	X	X	X	X

Male 12/28/41  
Cross 18-943 Color/Dir. ppl NW

1	2	3	4	5
X	X	X	X	X

Male 23/42  
Cross 17-945 Color/Dir.

1	2	3	4	5
P	P	P	P	P

Male 61/60  
Cross 24-946 Color/Dir. trq W

1	2	3	4	5
X	X	X	X	X

Male 13/33/40  
Cross 17-945 Color/Dir. gray W

1	2	3	4	5
X	X	X	X	X

Male 14/32/52  
Cross 30-952 Color/Dir. ppl S

1	2	3	4	5
X	X	X	X	X

Male  
Cross Color/Dir.

1	2	3	4	5

gray E

SIVE 7/9

do grain

yel E ✓

wht NE

slu W 7/9

~~gray~~  
~~trq SW~~  
~~trq NE~~  
~~ppl NW~~  
~~trq W~~  
~~gray W~~

24-963 & 17-945 do again

✓ on Mon 7/12 17-945

✓

PS

~~16/10~~  
14

Female: ER 17-945 <sup>clr green</sup> Female: ER 17-938

7/7

2 Jul 10  
AD

CROSS  
check  
SP (Y/N)

Male ~~PC 32~~ 30-952  
turquoise Color/Dir. South

✓1	✓2	✓3	✓4	✓5
X	P	P	P	X

SP (Y/N)

CROSS  
SP (Y/N)

Male ~~00000~~ 68/45  
red twist  
24-951 Color/Dir. Purple, W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

7/6/10  
clr  
head

Male 18/50/51  
30-971 Color/Dir. Purp/NW

1	2	3	4	5
X	X	X	X	P

SP (Y/N)

CROSS  
SP (Y/N)

Male 11/31/54  
red twist  
28-946 Color/Dir. white, N

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 82/67  
22-968 Color/Dir. Grn/N

1	2	3	4	5
X	P	P	P	P

SP (Y/N)

CROSS  
SP (Y/N)

Male 38/39  
16-943 Color/Dir. red twist  
aqua, W

X1	X2	X3	X4	X5
⊗	⊗	⊗	⊗	⊗

SP (Y/N)

Male 35/43  
18-963 Color/Dir. Y/UE

1	2	3	4	5
X	X	X	X	P

SP (Y/N)

CROSS  
SP (Y/N)

Male 63/57  
36-951 Color/Dir. red twist  
pink, NE

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

7/7

Male 9 20/55  
30-950 Color/Dir. red twist  
purple, N

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

CROSS  
SP (Y/N)

Male 84  
14-949 Color/Dir. red twist  
pink, S

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 80/48/58  
27-959 Color/Dir. red twist  
aqua, NW

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

CROSS  
SP (Y/N)

Male 23/42  
17-945 Color/Dir. red twist  
aqua, S

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 73/76  
31-947 Color/Dir. red twist  
white, N

1	2	3	4	5
Y	X	X	X	X

SP (Y/N)

CROSS  
SP (Y/N)

Male 61/60  
24-946 Color/Dir. red twist  
aqua, N

P1	P2	P3	P4	X5
⊗	⊗	⊗	⊗	⊗

SP (Y/N)

Male 61/60  
24-946 Color/Dir. red twist  
pink, NW

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

CROSS  
SP (Y/N)

Male 13/33/40  
17-942 Color/Dir. red twist  
pink, E

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 13/33/40  
17-942 Color/Dir. red twist  
yellow, W

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

CROSS  
SP (Y/N)

Male 62/79  
22-959 Color/Dir. red twist  
white, SW

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

Male 62/79  
22-959 Color/Dir. red twist  
green, E

1	2	3	4	5
P	P	P	P	P

SP (Y/N)

CROSS  
SP (Y/N)

Male 14/32/52  
30-952 Color/Dir. red twist  
white, SE

1	2	3	4	5
X	X	X	X	X

SP (Y/N)

7/9 do 30-952 red hd  
again try tops

aqua N and aqua W?

1	2	3	4	5
X	X	X	X	X



Female: SAP 16-959

Female: SAP 36-951

6-July  
already  
shredded

Male PC 12/28 18-943  
**Cross** *blu twist* Color/Dir. yellow/W  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 29-967 74/70 *Nes*  
**Cross** *grn twist* Color/Dir. green, SE  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 24-963 75/69  
**Cross** *wh twist* Color/Dir. yellow, E  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 30-973 *wh twist*  
**Cross** 83/72 Color/Dir. white, NE  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 17-945 *wh twist*  
**Cross** 23/45 Color/Dir. white, O  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 24-946 *wh twist*  
**Cross** 61/60 Color/Dir. pink, W  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 17-947 *wh twist*  
**Cross** 13/33/40 Color/Dir. aqua N  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 30-959 *wh twist*  
**Cross** 20/55 Color/Dir. aqua, N  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 27-959 *wh twist*  
**Cross** 80/48/58 Color/Dir. aqua, SW  

1	2	3	4	5
P	P	P	P	X

**SP (Y/N)**

Male 31-947 *wh twist*  
**Cross** *blu twist* 73/76 Color/Dir. grey/SW  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male PC 12/28 18-943  
**Cross** Color/Dir. traq E  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male PC 16/29 16-959  
**Cross** Color/Dir. yel E  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 24-951  
**Cross** 68/45 Color/Dir. wht SE  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 28-946  
**Cross** 11/31/59 Color/Dir. yel S  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 28-951  
**Cross** 21/47/49 Color/Dir. grn S  

1	2	3	4	5
P	X	X	X	X

**SP (Y/N)**

Male 21-953  
**Cross** 22/44 Color/Dir. prpl S  

1	2	3	4	5
X	X	X	X	O

**SP (Y/N)**

Male 30-959  
**Cross** 20/55 Color/Dir. grey NW  

1	2	3	4	5
P	P	P	P	X

**SP (Y/N)**

Male 27-959 *wh twist*  
**Cross** 80/48/58 Color/Dir. grn N  

1	2	3	4	5
X	X	X	X	X

**SP (Y/N)**

Male 31-947 *wh twist*  
**Cross** 76/73 Color/Dir. *prk and below along edge*  

1	2	3	4	5
P	P	P	P	P

**SP (Y/N)**

Male  
**Cross** Color/Dir.  

1	2	3	4	5

**SP (Y/N)**

7/6

27-959 do

again

1	2	3	4	5
P	P	P	P	X

7/9