

9/11/64

Planted in Jiffy Pots.

- I 4 - 3" pots; each 4 light brown beans from Crop 63/4 rows A, B, C using pure black seed
- II 4 - 3" pots, each 4 dark brown beans same seed
- III 4 - 3" pots, each 4 pure white beans same seed,
- IV 3 - 4^{low}" pots each 5 pink + brown beans same seed A7a
- V 2 - 4" high pots each 4 pink + brown beans from Crop 63/A row E using pink + brown seed.
- VI 2 - 4" high pots each 5 pure white beans same seed.
- VII 4" clay pot 5 pure white beans from Crop 63/4 using pure black seed position C15a. Vine with double kinks each 4
- VIII 7 - 5" plastic pots, I.C. Pink + Black beans from crop 63/4 row F using Pink + black seed crop 62/3
- IX 11 - 5" plastic pots each 4 same beans row D.

30/11/64 Transplanted 7-VIII + 9-IX to Magdalen, 2-IX failures

1/12/64 Started 8-IX pots each 5 beans at glass house.

16/11/64 Group III beans have low fertility. Dug some up.
Four had rotted. Few weed sprouts + mildew on marker sticks.
Groups VIII + IX each have three or four sprouts appearing.
Put all in glass house.

16/11/64 One group I bean has sprouted.

Put group VII pot in warm room at 80°F

18/11/64 Put groups I, II, III, IV, V, VI in 80°F room,
a lot of groups VIII + IX have sprouted.

at Flat started four batches soaking in tissue
paper on sink draining board. White beans from Black
Seed 1962/3; White beans from Black Seed 1963/4; White
beans from Pink + Brown Seed 1963/4; Brown beans from
Black seed 1963/4.

20/11/64 One plant of group I now has leaves. Put it in glass house.
One bean of group II has sprouted, left in warm room.

22/10/64 Two plants group II are above ground. Put them
in glass house.

23/11/64 Two plants group IV are above ground. Put them in
glass house.

25/11/64 Two plants group I, one group II, one group IV
have come up. Put these in glass house.

26/11/64 Combined the three Group I and group IV plants into
two large plastic pots. Three of these six plants seem
unable to make leaves. Recovered a few unsprouted
seeds. Mostly rotted. Few still hard. Cleaned + put in 80°F room.
Dug up group VII; all rotted.

Beans started soaking in flat on 18/11/64

X Crop 1962/3. Pure white beans from Pure Black seed.
8 sprouts put in two plastic tumblers.

XI Crop 1963/4. Pure white beans from Pure Black seed.

XII Crop 1963/4. Pure white beans from Pink + Brown seed.
16 sprouts put in four plastic tumblers.

XIII Crop 1963/4 Pure brown beans from Pure Black seed.
8 sprouts put in two plastic tumblers.

Put all the above in 80°F room on 24/11/64

26/11/64 Four more group XIII beans sprouted. Planted in plastic tumbler. Same with group X. Put tumblers in 80°F room. About three quarters of groups X and XII rotted in Petri dishes. Sorted out good ones and discarded rest. Group XI all rotten.

30/11/64 all rotten. Threw out remains of all above. The sprouts put in plastic tumblers also rotted. Have just come to surface and are covered by mould.

(over)

XIV 27/11/64 in 5" clay pot. Three I.C. beans from row D crop 1963/4. These have an orange instead of pink background, apparently from one pod only. Put in 80°F room.

30/11/64 Beginning to sprout but very dry. Watered + put in office. These clay pots have very large evaporation. 4/12/64 Put in glass house with Bowiea in same pan.

XV started eight pots each with 9 pure black seeds in glass house. about $\frac{4}{3}$ have very small shoots. Put five petri dishes of same seeds in 80°F room.

3/12/64 Beans beginning to sprout. Planted 8 sprouts in each of four 4" jiffy pots. Cleared out mildew beans. Moved all to 80°F room.

4/12/64 Planted five sprouts each in three 3" jiffy pots. Placed in 80°F room. Started more seed soaking at flat.

7/12/64 Planted five sprouts in each of two 3" jiffy pots, Warm room.

Group XIV has all three beans sprouted.

One group I plant without primary leaves now has secondary leaves.

10/12/64 Threw out remains of unspouted seed started on 30/11/64 as group XV. Planted 39 sprouts of those started ^{very tiny} on 4/12/64 at flat. Put rest in petri dishes in warm room.

Hawaiian Mutants

31/12/64. Removed from pot and put in five gallon round can one set of plants group I (light brown beans from Crop 63/4 using pure black seed).

Removed from 3 pots and put in 3-four gallon round cans, sets of plants group II (dark brown beans from Crop 63/4 using pure black seed).

Removed from pot and put in four gallon square can one set of plants group IV (pink & brown beans from crop 63/4 using pure black seed).

Supplied poles in each can and tied up runners. Left in glass house after watering thoroughly. Gave each 100cc NH_4NO_3 solution. These few plants are all that survived from the fancy colored seed.

4/1/65 Two group II plants are flowering. Both plants have both yellow and white flowers on same plant!

5/1/65 Another pair has opened. Took fotos at close range

11/1/65 about a dozen pods $\frac{1}{2}$ " to 2" long on groups I & II. Quite a lot of flower buds on group IV.

15/2/65 Four transplanted vines from Magdalena had bad shock. The lower parts of plant quite good but all the runners have withered. Perhaps they will send up new runners. Took fotos. Harvested four dried pods from each group I and group II. These vines are six to ten feet high. Groups of pods near bottom, there none for about three or four feet. Lot of new small pods high up.

Added 200cc of Hogland solution X2 for fertilizer

15/3/65 Vines 12 feet tall and getting mature, particularly the groups I, II, IV. The vines from black seed still green and growing. Took 3 fotos of plants & 2 of beans.

28/5/65 Southwest corner pot started from black seed has near top one pod of yellow color with red markings. Took two fotos and marked with string. I it may be a new kind.

A few of plants have died but most still are slowly growing green beans. Plant in southeast pot still flowering.

25/8/65 Harvested last of pods. Got about 50 assorted plus the three special yellow with red markings. Pulled off all vines except one in northeast pot which is still alive with green leaves.