

Growth B (New technique)  
 Strat Seed

72°F (lab)

GET-61-NT May 6 10:30 AM into temp

and

Seed No	May 7 1 PM	May 8 9 AM	May 9 9 AM	May 10 9 AM	Use in calc rate		
	mm						
	Root length mm's						
1	3.0	8.0	9.0 C	20.0 C			
2	5.0	18.0	20.0	35.0	✓	35.0	
3	3.0	13.0	20.0	30.0	✓	30.0	
4	3.0	10.0	17.0	21.0	✓	21.0	
5	3.0	11.0	14.0	20.0	✓	20.0	
6	4.0	17.0	19.0	26.0	✓	26.0	
7	3.0	11.0	15.0	25.0	✓	25.0	
8	2.0	8.0	13.0	23.0	✓	23.0	
9	2.0	8.0	10.0	20.0 C			
10	3.5	17.0	20.0	30.0	✓	30.0	
11	0.8	0.8	0.8	0.8			
12	1.0	1.0	1.0	1.0			
13	0.3	0.3	0.3	0.3			
14	2.0	8.0	9.0	17.0 streaked			
15	0.3	0.3	0.3	0.3			
16	3.0	11.0	20.0	23.0	✓	23.0	
17	3.0	15.0	23.0	26.0	✓	26.0	
18	3.0	14.0 C	20.0 C	20.0			
19	3.0	17.0	22.0	26.0	✓	26.0	
20	0.3	0.3	0.3	0.3			
21						285.0	
22				Roots only	N=11	Av = 26 mm	
23							
24							
25							

26  
 11/285.0  
 27  
 65

Gage  
 rate from May 6 10:30 AM  
 May 7 1 PM  
 to May 10 9 AM

GT-61

Strat seed.

70°F lab

Ended May 6/61  
room

Growth of strat seed

May 1 1961  
Hormony

Into temps 10 AM

at temps

Seed No	#1 May 1 4 PM	#2 May 2 8 AM	#3 May 2 4 PM	#4 May 3 8 AM	#5 May 4 8 AM	#6 May 5 8 AM
	length of root mm					
1	0.2	3.0	4.0	10.0 S	13.0 S	15.0 S
2	0.2	3.0	6.0	8.0 S	10.0 S	15.0 S
3	0.1	3.0	6.0	8.0 S	10.0 S	10.0 S
4	0.5	2.0	6.0	10.0 W	11.0 S	12.0 S
5	0.8	5.0	10.0	13.0 S	13.0 S	14.0 S
6	0.5	1.0	1.0	1.0 -	1.0 -	1.0 -
7	0.7	1.2	3.0	10.0 S	11.0 S	11.0 S
8	0.4	2.0	3.0	10.0 S	15.0 S	23.0 S
9	0.5	1.5	4.0	11.0 S	20.0 S	25.0 S
10	0.5	2.0	4.0	11.0 S	15.0 S	20.0 W
11	0.2	0.8	2.0	6.0 C	11.0 S	12.0 S
12	0.5	3.0	7.0	11.0 S	13.0 S	15.0 S
13	0.6	4.0	8.0	13.0 S	14.0 S	18.0 S
14	0.4	2.0	6.0	10.0 S	11.0 S	16.0 S
15	0.9	4.0	6.0	11.0 S	12.0 S	20.0 S
16	0.3	3.0	6.0	10.0 S	15.0 S	21.0 S
17	0.2	2.0	6.0	9.0 S	10.0 S	13.0 S
18	0.4	4.0	7.0	9.0 S	15.0 S	16.0 S
19	0.2	1.0	2.0	5.0 W	10.0 S	13.0 S
20	0.2	0.5	7.0	7.0 W	11.0 S	14.0 S
21	0.2	3.0	6.0	10.0 S	17.0 <sup>hypo</sup> S	16.0 S
22	0.2	0.4	2.0	3.0 S	13.0 S <sup>hypo</sup>	7.0 S
23	0.2	0.3	1.0	2.0 S	4.0 S	10.0 S
24	0.3	0.6	2.0	7.0 W	8.0 S	10.0 S
25	0.2	2.0	5.0	8.0 S	11.0 S	11.0 S
26						

no curving

May 6 growth not progressing to have any more roots created border class environment

Hypocotyls and roots together on May 3 & 4 measurements Most roots brown

Roots only Color d. Ster. cartilage roots, hypo now clear

#1 Into temperatures

C = curled  
W = wavy  
S = straight

Shape of root.

Strat record

90°F  
New method

GET-61-11T Joto temp May 7 1 PM

	May 8 10 AM	May 9 9 AM	May 10 10 AM	ended	Use
1	0.2	0.2			
2	0.3	0.3			
3	1.0	1.0			
4	1.0	1.0			
5	1.0	1.0			
6	1.0	1.0			
7	1.0	1.5			
8	1.0	1.0			
9	0.5	0.5			
10	2.0	1.0			
11	0.8	0.8			
12	0.8	<del>0.8</del> 0.8	0.8		
13	1.0 ✓	11.0 ✓	16.0 ✓		16.0
14	0.4	0.4			
15	2.5 ✓	10.0 ✓	18.0 ✓		18.0
16	1.0	1.0			
17	1.0 ✓	2.5 ✓	11.0 ✓		11.0
18	1.0 ✓	1.0 ✓	9.0 ✓		9.0
19	1.0	1.0			
20	0.5 ✓	9.0 ✓	20.0 ✓		20.0
21	0.8	1.0			
22	0.6	0.6			
23	0.3	0.3			
24	0.3	0.3			
25	0.3	0.3			
	60	335	74.0		5 <del>70.0</del> 74.0 Ave 15.0

6T-61

Start seed

90°F

No	1	2	3	4	5	6	7
Seed	May 1 4PM	May 2 8AM	May 3 4PM	May 3 8AM	May 4 8AM	May 5 8AM	
No							
1	0.4	1.0	1.1	1.5	2.0	12.0	
2	0.4	1.2	2.0	9.0 S	20.0 S	20.0 S	
3	0.2	0.8	1.0	4.0 S	16.0 S	16.0 S	
4	0.2	0.3	0.3	0.3 -	0.3	• 0.3	
5	0.3	0.4	0.4	0.6 -	0.6	• 0.6	
6	0.3	0.6	0.6	0.6 -	0.6	• 0.6	
7	0.5	6.0 <sup>sk</sup>	12.0	15.0 S	20.0 W	20.0 W	
8	0.5	1.0	1.0	1.0 -	3.0	12.0 S	
9	0.4	0.7	0.7	0.7 -	0.7	• 0.7	
10	0.3	0.5	1.2	2.0 S	10.0 S	11.0 W	
11	0.3	0.3	0.3	0.3 -	0.3	• 0.3	
12	0.3	0.4	0.4	1.5 S	10.0 S	16.0 S	
13	0.2	0.2	0.3	0.3 -	0.3	• 0.6	
14	0.2	2.0	5.0	6.0 S	10.0 W	10.0 S	
15	0.2	0.7	1.1	1.1 -	1.1 -	8.0 S	
16	0.3	0.4	0.5	0.5 -	0.5	• 0.5	
17	0.2	0.2	0.3	0.3 -	0.3 RTI	• 0.3	
18	0.2	0.8	0.8	0.8 S	13.0 S	13.0 S	
19	0.2	0.2	0.2	0.2 -	0.2	• 0.3	
20	0.3	0.6	1.1	1.1 -	11.0 S	14.0 S	
21	0.3	0.8	1.0	2.0 S	10.0 W	14.0 W	
22	0.3	0.8	1.5	6.0 S	11.0 W	16.0 W	
23	0.4	1.0	1.5	3.0 S	12.0 W	14.0 W dried RT	
24	0.2	0.6	0.6	0.6 -	0.6	• 0.6	
25	0.2	0.4	0.6	0.6 -	0.6	• 0.6	

No curvray

Roots +  
bypesRoots  
only

✓ 7

May 7 Abnormal growth do not use

Root tips dried up in air. Use new technique