

Gases @ 41°F

Am

Effect O₂, N₂, and CO₂ gas on stratification @ 41°F

June 23/44
A. Horman

Modoc Seed

Above gases bubbled thru water and also enclosed in jars containing seeds.

Bubbled thru water

Enclosed in jars

Date	Bubbled thru water			Enclosed in jars				Date					
	O ₂	N ₂	CO ₂	O ₂	N ₂	CO ₂	Air						
0 June 21	started in 41°F			(111)	(125)	(136)	(114)	started					
2 June 23								June 23					
4 June 26	ran out of gas O ₂ and N ₂ still running on water & 5 prob. latter			95	86	0	0	86	63	1	1	3	Aug. 18
5 June 27	3:30 PM O ₂ and N ₂ supply received and hooked up to jars gas running in all jars O ₂ , N ₂ , CO ₂			95	86	0	0	86	63	8	7	4	" 22
				97	87	13	10	96	71	20	18	10	" 28
				97	87	18	14	99	73	29	25	13	" 31
June 26	1st samples out												
7 June 28	no germination (Seeds put back into jars but not in with main supply)												
14 July 5	out												
July 7 4	Ger. %	35	6+1=7	8	0	0=0	0						
" 8 5	13+30=43	43	7+2=9	10	0	0=0	0						
" 10 7	4+30=44	44	7+2=9	10	0	0=0	0						
" 11 8	5+30=45	45	7+2=9	10	0	0=0	0						
" 12 9	45	45	10	11	0	0	0						
21-July 14	0												
July 15 1	10-1/4"	3	4-1/32"	0	13-1/32"	0							
" 17 3	136-1/4-1/4"	40	14-1/4-1/2"	5	0	0	0						
" 19 5	192	57	30	11	0	0	0						
" 22 8	213	63	38	14	3	1							
" 24 10	216	64	39	14	6	3							
" 25 11	216	(64)	44	(16)	6	(3)							

Date	O ₂	N ₂	CO ₂	Air
July 25	(122)	(222)	(232)	
46 Aug 18				
Aug 21	42	34	66	30
" 22	54	44	64	74
" 28	59	48	66	75
" 31	59	48	66	75

Remanum seed restructured @ 41°F

in aerobium water

* Includes 2-day germ. period June 26-28