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~~AEC RESEARCH AND DEVELOPMENT REPORT~~

Approved for issue by: R. W. Levin
Date of issue: July 29, 1947

~~This document consists of 12 pages~~
~~No. 4 of 16 copies, Series A.~~

Report No. A-4738

Carbide and Carbon Chemicals Corporation Operating Contractor for the U.S. Atomic Energy Commission.

INVENTORIED AUG 6 1952 By

CARBIDE AND CARBON CHEMICALS CORPORATION

URANIUM CONTROL AND INSPECTION DEPARTMENT

Accountability Section

Plant ... Vault
Doc. No. 21717
Serial No. 5
File No. 021

WEIGHT CONTROL CHARTS FOR APRIL, MAY AND JUNE, 1947

F. Strang

INVENTORY
PLANT RECORDS DEPT.
CENTRAL FILES
INV. REC. 19547
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Report number: A-4738

Date of issue: July 29, 1947

Title: WEIGHT CONTROL CHARTS FOR APRIL, MAY, AND JUNE, 1947

Author: F. Strang

CARBIDE AND CARBON CHEMICALS CORPORATION

URANIUM CONTROL AND INSPECTION DEPARTMENT
Accountability Section

ABSTRACT

The attached weight control charts establish the following:

1. The average daily bias in cascade feed minus waste is 0.7 ± 0.6 lbs., which meets the target bias uncertainty of 1.0 lbs.
2. The difference per product cylinder between Coded Chemicals' and Operations' weights is 0.02 ± 0.3 gms., which meets the target precision of 1 gm.
3. The average difference per product cylinder between K-25 and Y-12 weights is 0.55 ± 0.12 gms. Y-12 weighs heavy compared to K-25

The attached charts are used to follow K-25 scale and balance performance. Through these charts, it has been determined when performance was not in normal control; at these times, investigations have shown that the scale or balance was in need of repair or that weights were in need of calibration.

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WEIGHT CONTROL CHARTS FOR APRIL, MAY, AND JUNE, 1947

Introduction:

The purpose of the attached weight control charts and the conclusions drawn from the charts are given in the Abstract.

Discussion:

1. The C-616 Tare Weight Control Charts for May and June, 1947 are based on the K-631 lot weight of eight feed cylinders and the sum of the individual cylinder weights determined at K-1025. The C-616 Gross Weight Control Charts for May and June, 1947 are based on the K-631 lot weight of ten feed cylinders and the sum of the individual cylinder weights determined at K-1025. From these two charts the tare and gross weight difference between K-631 and K-1025 scales, and therefore the net difference, may be determined. The precisions of these quantities are easily determined.

2. The Product Weight Control Charts for April, May and June, 1947 are based on the difference between Coded Chemicals' and Operations' gross weights of the same cylinder.

3. The Product Weight Agreement Charts between K-25 and Y-12 for April, May and June, 1947 are based on the difference between K-25 and Y-12 gross weights of the same cylinder.

In the future, the weight control charts will be issued monthly.

F. Strang
F. Strang

Approved: A. de la Garza
A. de la Garza

FS/ip

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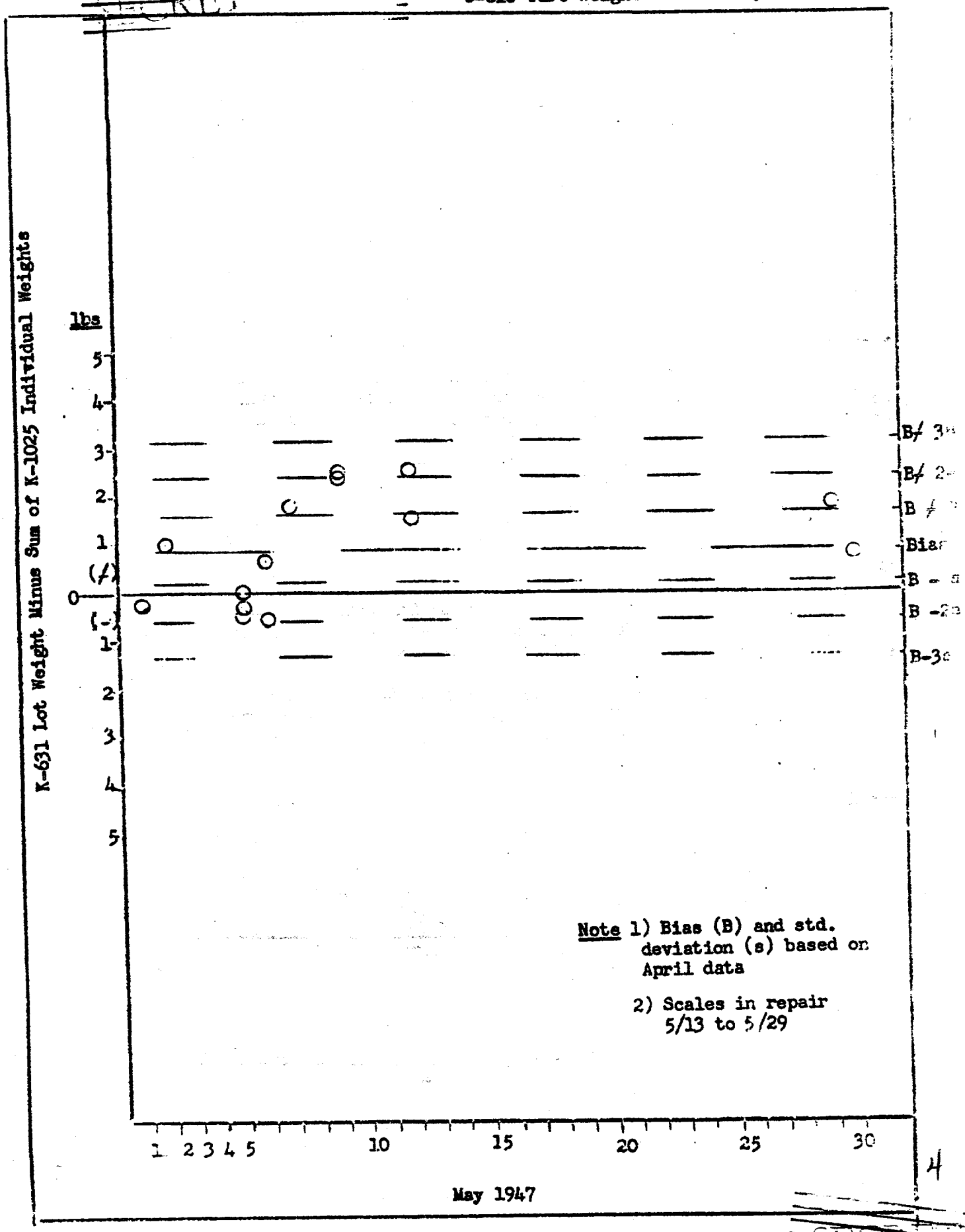
C-616 Tare Weight Control May 1947



Note 1) Bias (B) and std. deviation (s) based on April data

2) Scales in repair 5/13 to 5/29

4

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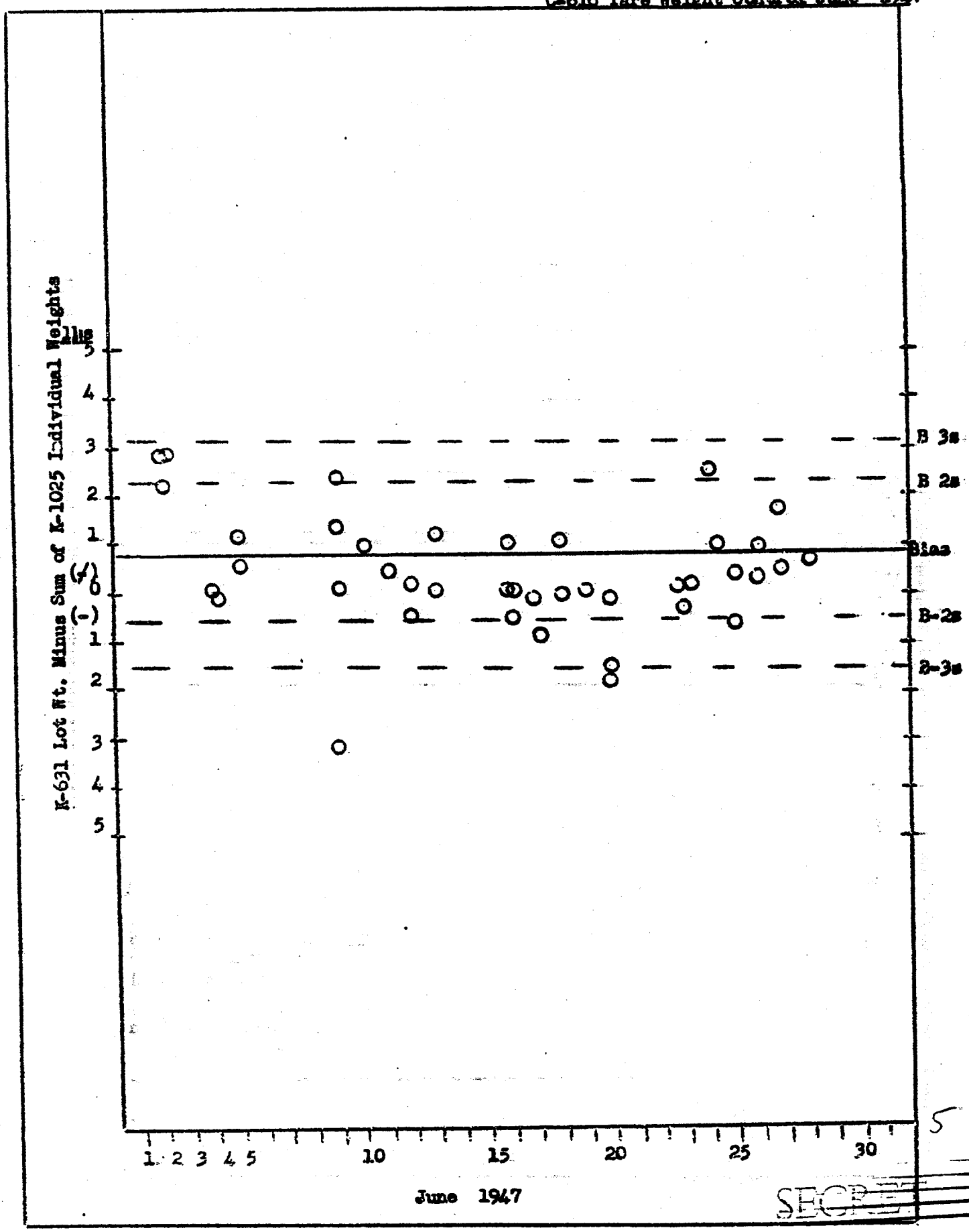
C-616 Tare Weight Control June 1947



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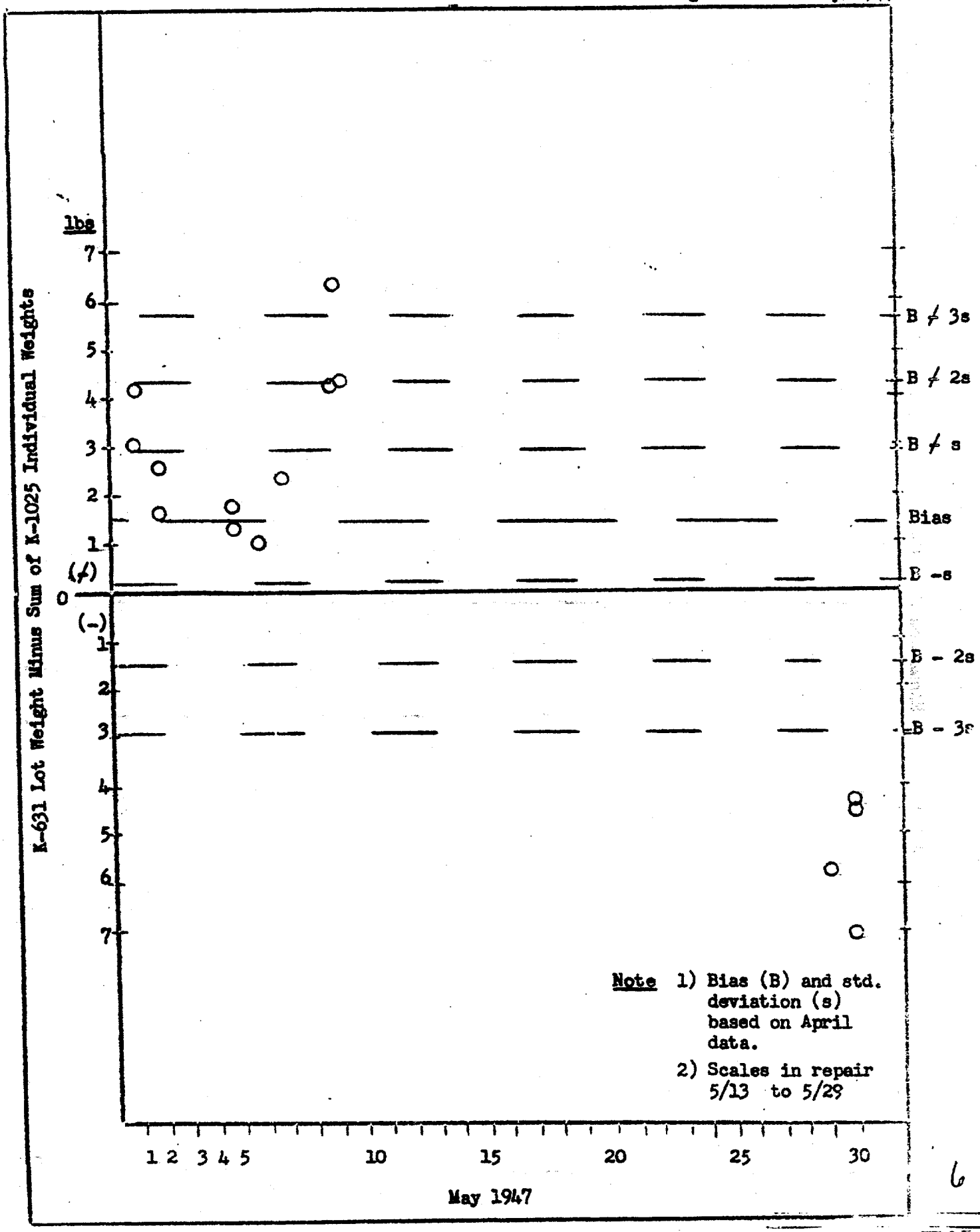
C-616 Gross Weight Control May 1947



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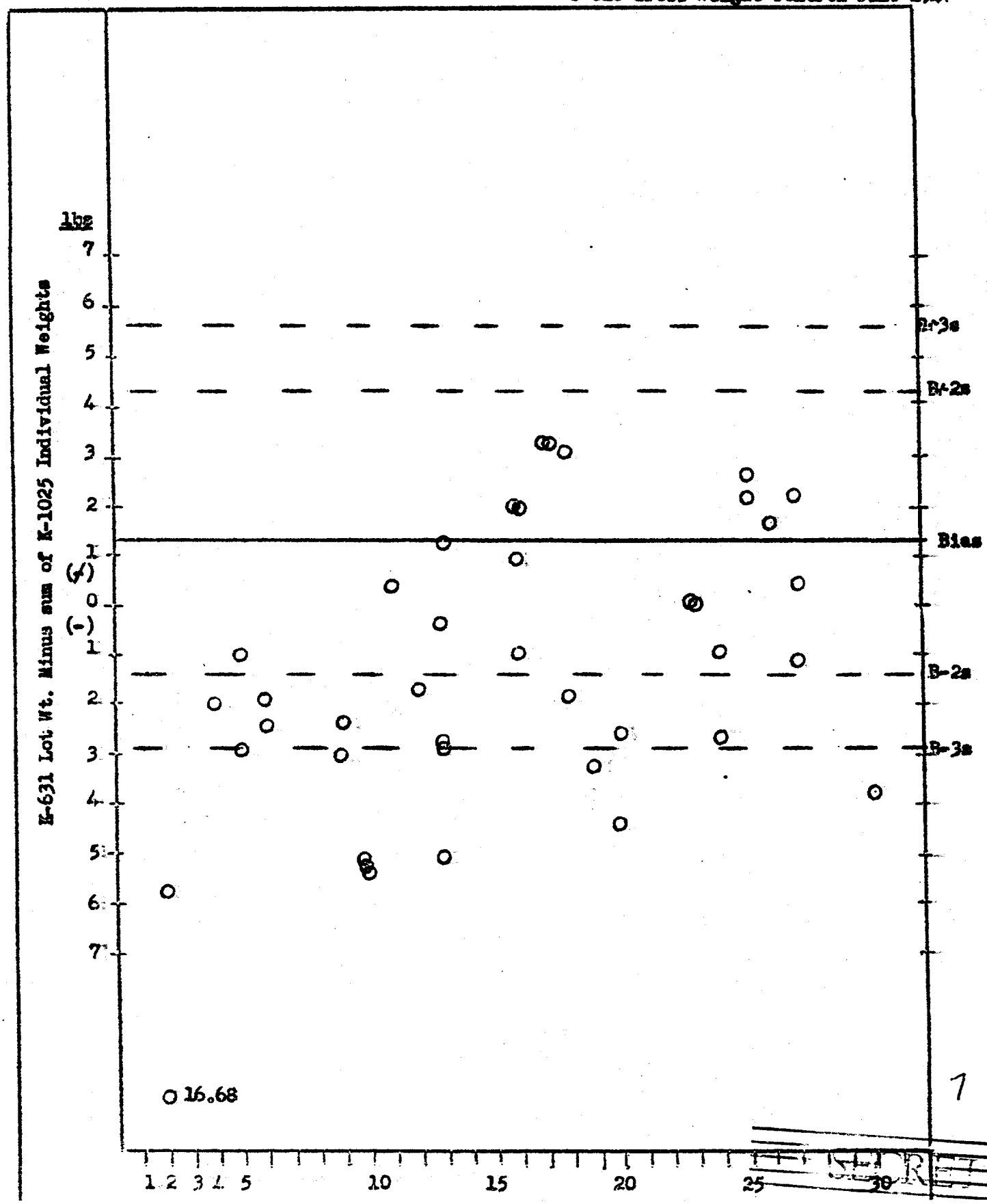
C-616 Gross Weight Control June 1947



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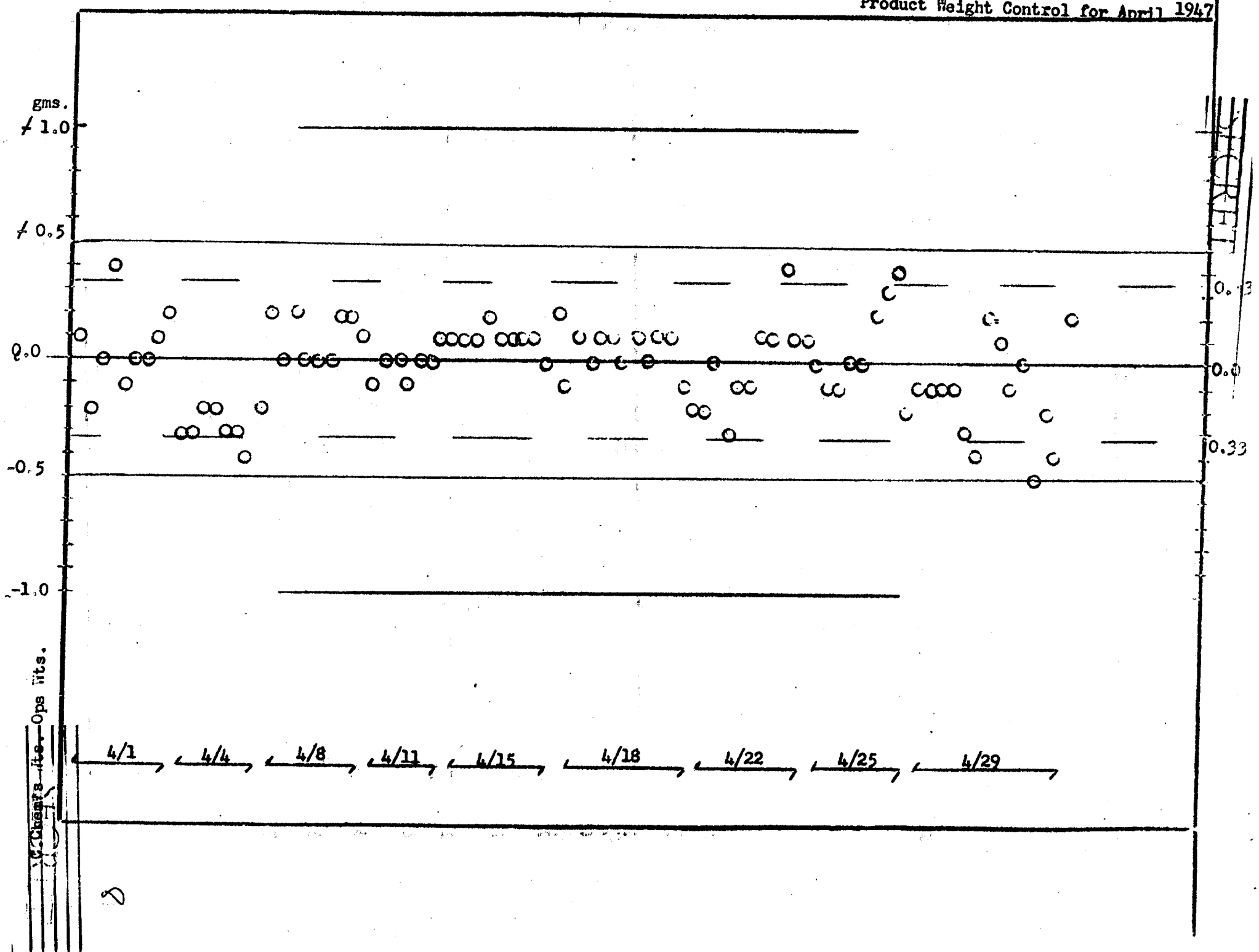
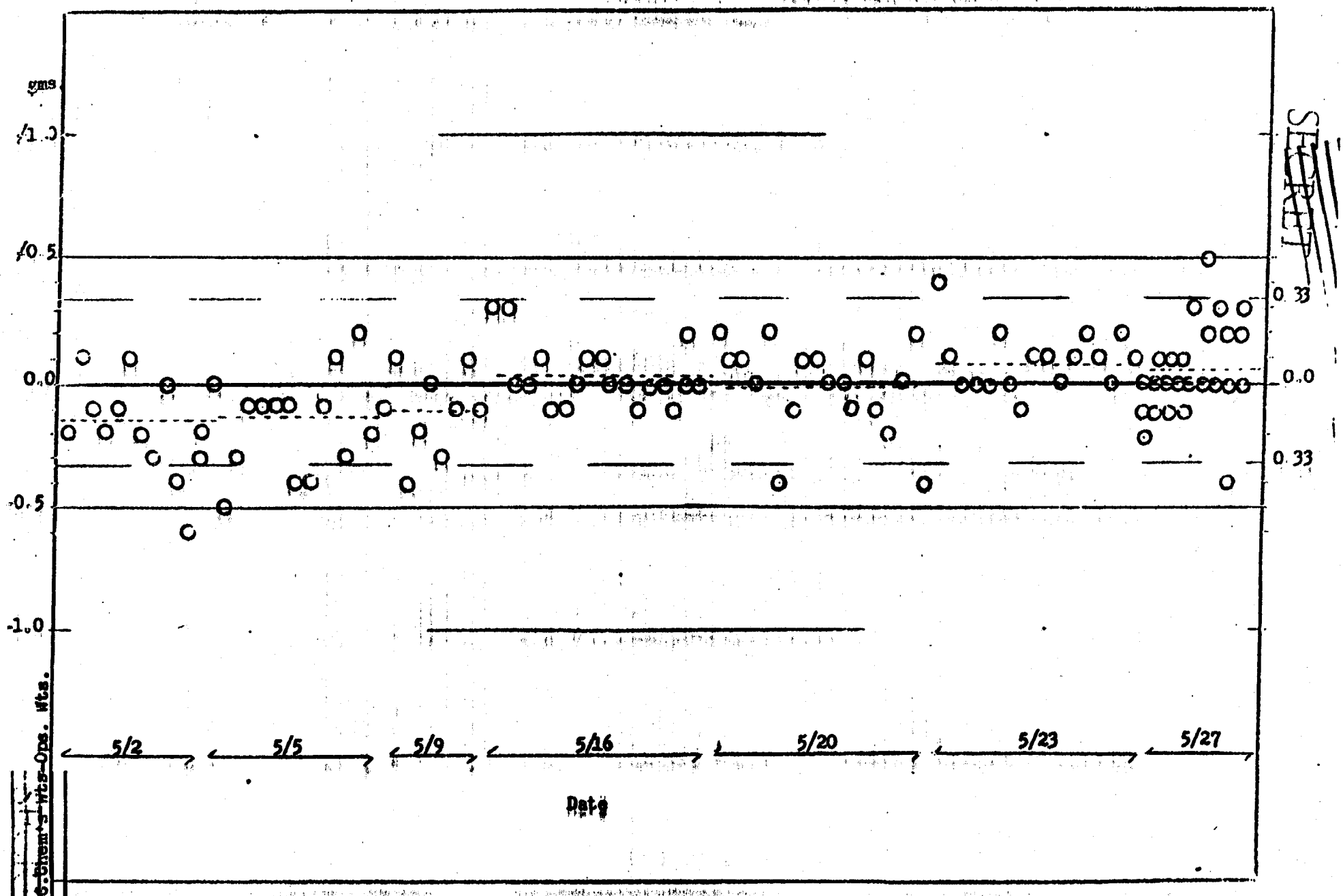
Product Weight Control for April 1947



Product Weight Control For May 1947



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WEIGHT AGREEMENT CONTROL CHART - NO 1-P e

Weighing Parties: Coded Chemicals and Operations

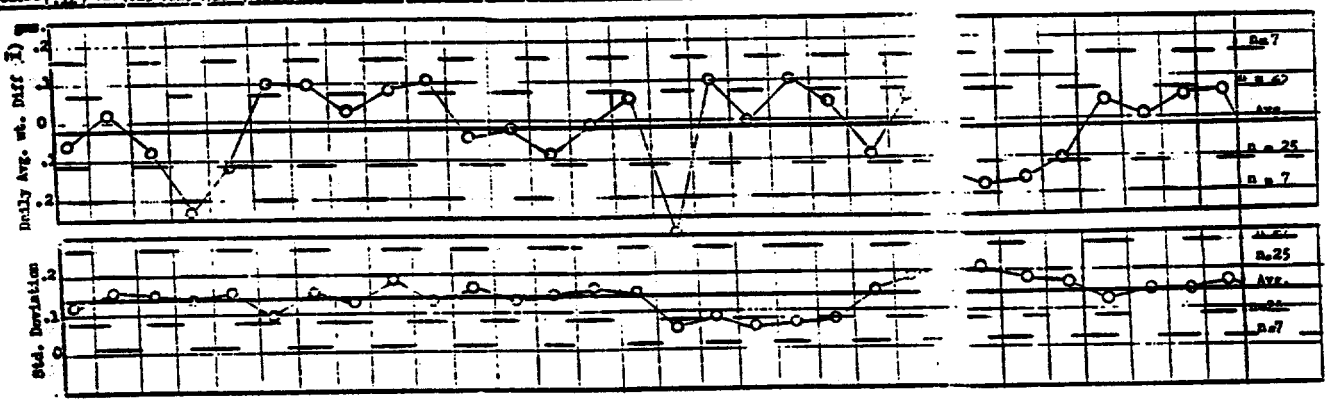
Material Designation: 2835

Duration Period: Feb 11 - May 1947

Type Weight: Grossess- On Balances

Coded Chemicals Weigh. - Operations Weight in Grams

Date	2/11	2/14	2/18	2/21	2/25	2/28	3/4	3/7	3/11	3/14	3/18	3/21	3/25	3/28	4/1	4/4	4/8	4/11	4/15	4/18	4/22	4/25	5/2	5/5	5/9	5/16	5/20	5/23	5/27	Totals
1	0.0	-.1	-.1	-.1	-.4	.1	0	0	0	.3	-.1	-.4	-.4	-.3	.1	-.3	.2	-.1	.1	-.1	-.2	0	0	0	.1	.3	.2	-.4	-.1	
2	-.2	.2	0	-.3	-.2	.2	.1	.1	.1	.2	0	-.3	-.4	0	-.2	-.3	0	0	.1	.1	-.2	-.1	.1	-.5	-.4	.3	.1	.4	-.2	
3	-.1	.2	-.4	-.4	-.2	0	.2	.1	.4	0	0	-.4	0	-.2	0	-.2	.2	0	.1	0	0		-.1	-.3	-.2	0	.1	.1	.1	
4	0	-.1	-.3	-.3	.2	-.1	.2	-.1	-.2	.3	-.1	-.2	-.4	.2	.4	-.2	0	-.1	.2	.1	-.3		-.2	-.1	0	0	0	0	0	
5	-.1	-.1	0	-.2	0	.1	0	-.2	.4	0	-.4	-.2	-.4	.1	-.1	-.3	0	0	.1	.1	-.1	0	-.1	-.1	-.3	.1	.2	0	-.1	
6	0	-.3	0	-.4	-.1	.1	.4	0	.2	-.1	0	0	-.2	0	0	-.3	0	0	.1	0	-.1		-.2	-.1	-.1	-.1	-.4	0	.1	
7	.1	.2	0	-.4	-.2	.2	0	0	-.2	.1	-.3	-.2	-.1	.1	0	-.4	.2	.1	.1	.1	.1		.1	-.1	.1	-.1	-.1	.2	0	
8	0	.2	-.1	-.1	0	0	.1	.2	.2		-.1	-.1	.2		.1	-.3	.2		.1	0	.1		-.2	-.4	-.1	0	.1	0	-.1	
9	0	0	-.1	0	0	.2	.1	0	0		0	-.4	0		.2		.1		0	.1	.4		-.3	-.4		.1	.1	-.1	.1	
10			0		-.1	.2	-.2	.1			0								.2	.1	.1		0	-.1		.1	0	.1	0	
11			-.1								.1									-.1	.1		-.4	.1		0	0	.1	-.1	
12			.2								-.1												-.6	-.3		0	-.1	0	0	
13											.2												-.3	.2		-.1	.1	.1	.2	
14																								-.2		0	-.1	.2	.2	
15																								-.1		0	-.2	.1	0	
16																										-1	0	0	0	
17																										0	.2	.2	.3	
18																										.2		.1	.5	
19																										0		0	.3	
20																										0			.3	
21																													.2	
22																													0	
23																													0	
24																													0	
25																													-.2	
26																														
P	0	0	33	33	0	0	0	0	0	0	0	7	33	0	0	12.5	0	0	0	0	5.3		15.4	20.0	12.5	0	5.9	10.5	4.0	86
n	9	9	13	9	10	20	10	10	9	7	15	9	9	7	5	8	9	7	9	10	11	11	13	15	8	20	17	19	25	338
Total X	-.5	.2	-.9	+2.2	-1.1	1.0	1.0	.3	.7	.8	-.6	-2.2	-.8	-.1	.5	-2.3	.9	-.1	1.1		.4	-.3	-2.2	-2.4	-.9	.7	.2	1.1	1.5	-7.3
Average	0.56	.0222	.075	+.22	-1.1	.10	.10	.03	.078	.11	-.06	-.24	-.09	-.01	.056	.287	.1	.014	.10	.0364	.03		-.17	-.16	-.11	.035	.012	.064	.060	-.022
Largest X	.3	.2	.2	0	.2	2	4	3	4	3	3	0		2	4	.2	2	1	2	1	4		1	2	1	4	1	2	1	
Smallest X	-.3	-.3	-4	-4	-4	-2	-2	-2	-2	-1	-4	-4	-4	-3	-2	-4	0	-1	0	-1	-3		-6	-4	-4	-1	-4	-4	-2	
Range (R)	4	5	6		6	3	6	5	6	4	7	4	4	5	6	4	2	2	2	2	7		7	6	5	4	6	8	7	5.03
Total X^2	.15	.28	.33		.37	.20	.34	.17	.39	.21	.42	.70	.28	.19	.27	.49			.15				.86	.90	.33	.29	.40	.51	.79	
Average X^2	.017	.031	.028		.037	.02	.034	.017	.039	.030	.024	.078	.031	.027	.030	.056			.015	.037			.066	.063	.048	.015	.023	.027	.032	
$\sigma_x^2 = (X)^2/N$	.014	.020	.022	.020	.025	.0	.02	.016	.02	.015	.03	.030	.022	.027	.027	.04			.03	.006	.02		.037	.02	.029	.014	.023	.023	.028	
σ_x = Std. Dev	.12	.16	.15	.14	.16	.10	.16	.13	.19	.16	.17	.14	.15	.16	.16	.21	.06	.09	.08	.07	.08	.16	.19	.14	.17	.12	.15	.15	.17	.14



Date	2/11	14	18	21	25	28	3/4	7	11	14	18	21	25	28	4/1	4	8	11	15	18	22	25	5/2	5	9	16	20	23	27
Comments					Evid. of Lack of Control	Danger Zone	Danger Zone			In Control n = 7							Lack of Control	Danger Zone	Lack of Control	Danger Zone									

Uranium Control and Inspection Department

Signed: [illegible]

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e Chart to set Limits
one gross = not since tare is constant

Date: June 24, 194[illegible]

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WEIGHT AGREEMENT CONTROL CHART - NO. 2 - P

Weighing Parties: Coded Chemicals and Operations

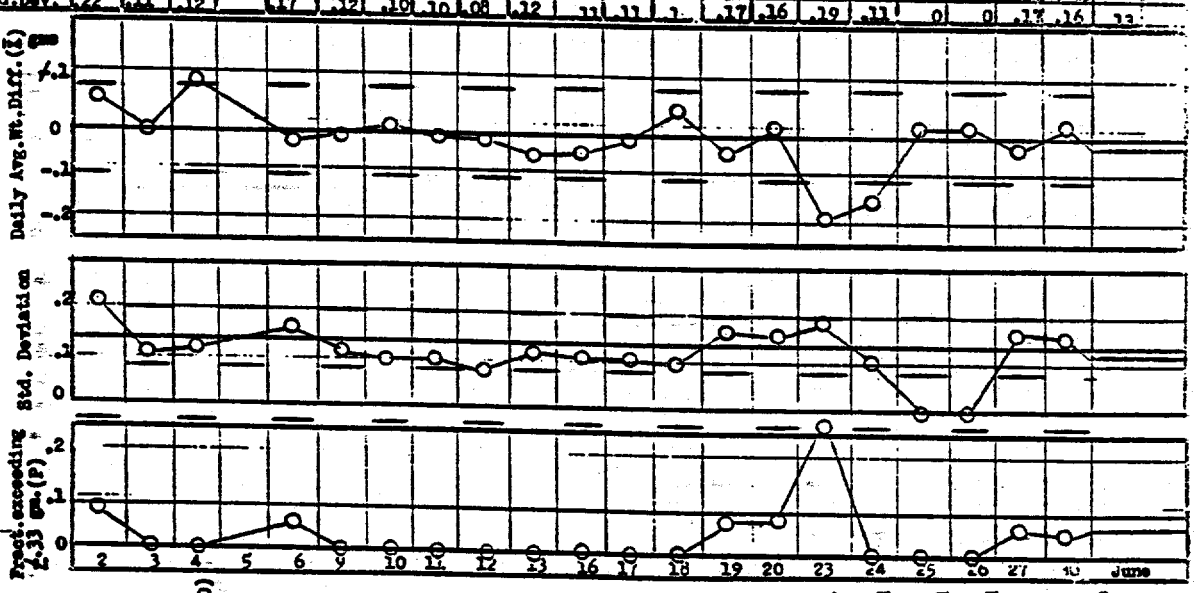
Duration Period: June 1947

Material Designation: 2835

Type Weight: Gross -on Balances

Coded Chemicals Weight Minus Operations Weight — In Tenths of a Gram

Date June	2	3	4	5	6	9	10	11	12	13	16	17	18	19	20	23	24	25	26	27	30	Totals
1	5	1	-1		0	0	-1	0	0	-1	0	-1	1	-3	1	-4	0	0	0	-3	-1	
2	2	0	0		1	1	-1	0	-1	0	0	1	2	0	1	-5	0	0	0	-1	1	
3	2	0	0		1	2	1	2	1	0	-1	1	0	0	-4	3	-3	0	0	2	1	
4	0	-1	2		-2	-1	1	-2	1	0	-2	0	-1	-3	2	-4	0	1	0	-1	2	
5	5	-1	2		0	-1	0	0	0	0	1	-2	0	-2	-1	0	0	0	0	0	0	
6	2	0	2		-1	-3	-1	0	0	0	1	0	0	-1	0	1	0	0	0	-1	0	
7	1	-1	1		-1	-2	0	-1	-1	-2	-1	0		0	1	-1	0	0	0	0	-1	
8	3	0	2		-1	-2	1	0	-1	-2	-2	-1		-1	0	-1	0	0	0	3	3	
9	3	-1	3		2	0	0	0	-1	0	-2	-1		-1	2	-2	-2	0	0	-1	1	
10	-2	3	1		-4	-1	-3	-2	-1	0	-1	0		-4	0	-1	-2	0	0	0	-1	
11	-3	1	3		-1	0	0	0	-1	0	0	-1		0	1	-4	0	0		-5	0	
12	2	2	1		0	1	-1	0	0	1	-1	0		0	0	-2	1	0		2	0	
13	2	-1	1		0	0	-1			1	-1	2		3	-3	-2	0			-1	0	
14	0	-1	0		-3	0	1			-1	0	-3		2	0	0	-2			1	1	
15	1	-1	-2		2	-1	1			-3	0	0				-1				-2	0	
16	1	0	0		-2	0	1			1	-1	-1				-1				0	0	
17	0	0	1		2	1	0			1	-2	1				-1				0	-4	
18	-1	-1	1		1	0	0			-2	-3	-1				-4				0	3	
19	-2	-1	0		1		1			-3	1	0				-4				0	0	
20	0	-2	0		-1		0			-1	0	-1				-2				-1	-3	
21	-2	0					0			-2	1	0				-4					1	
22	-2	1								-2	-2					-3					-1	
23	-2										0					-3						
24	-1															0						
25																-3						
26																-2						
P%	8.3	0	0	-	5.0	0	0	0	0	0	0	0	0	7.1	7.1	6.9	0	0	0	5.0	4.5	45.5
N	24	22	20	0	20	18	21	12	12	22	23	21	6	14	14	26	14	12	10	20	22	253
Total X	1.4	-.3	1.7		-.8	-.6	-.1	-.3	-.4	-1.5	-1.5	-.7	2	-.8	0	-5.0	-.8	0	0	-.8	.2	-10.7
Average	.06	-.014	.085		-.040	-.033	-.005	-.029	-.033	-.068	-.065	-.033	.033	-.057	0	-.19	-.057	0	0	-.04	.009	-.04
Largest X	5	3	3		2	2	1	2	1	1	1	2	2	3	2	3	1	0	0	.3	.3	5
Smallest X	-2	-2	-2		-4	-3	-3	-2	-1	-3	-3	-3	-1	-2	-4	-5	-3	1	0	-.5	-.4	-5
Range (R)	7	5	5		6	5	4	4	2	4	4	5	3	5	6	8	4	1	0	8	7	1.0
Total X^2	1.22	.29	.45		.62	.28	.21	.13	.08	.45	.39	.27	.06	.46	.38	1.84	.22	.01	0	.62	.56	
Average X^2	.051	.013	.022		.031	.016	.01	.01	.007	.020	.017	.013	.01	.033	.027	.071	.016	0	0	.031	.025	
$\sqrt{(X^2) - (X)^2}$ = Std. Dev.	.048	.013	.015		.029	.015	.01	.01	.006	.015	.013	.012	.009	.030	.027	.035	.013	0	0	.025	.025	
	.22	.11	.12		.17	.12	.10	.10	.08	.12	.11	.11	.1	.17	.16	.19	.11	0	0	.17	.16	.33



Comments: In Control (n 20); Balance out for repairs; One balance used; One balance used; One balance used; Monthly average value

Date July 3, 1947

Uranium Control and Inspection Department

Signed: [illegible]

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WEIGHT AGREEMENT CONTROL CHART - NO. 1-E

Weighing Parties: K-25 and Y-12

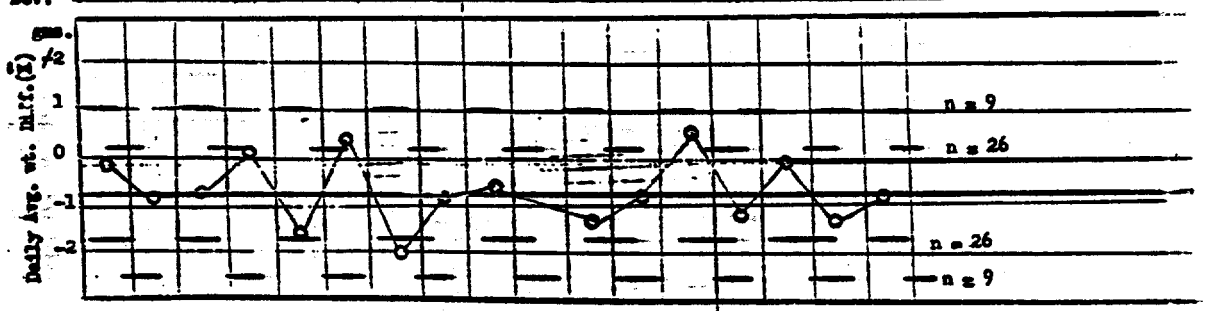
Material Designation: 2835

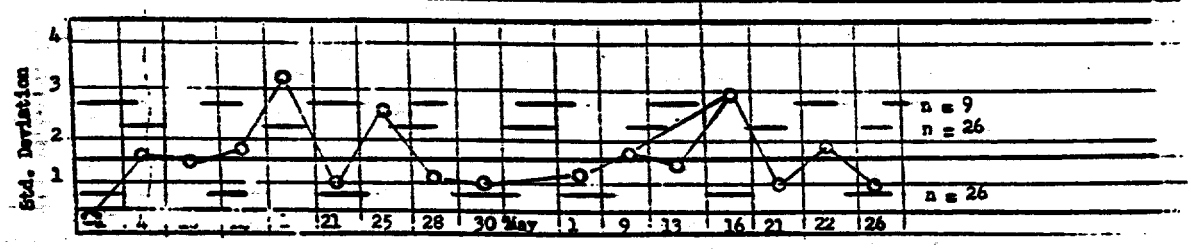
Duration Period: Apr. - May 1947

Type Weight: Gross

K-25 weight minus Y-12 weight in grams

	1	4	10	14	15	21	25	28	30	May	1	9	13	16	21	22	26	Totals
1	0.5	2.4	0.8	2.4	5.3	3.0	0.1	0.7	0.8		0.7	0.3	4.4	3.2	2.3	0.3	0.1	
2	0.2	0.4	0.7	2.1	3.9	2.3	0.0	0.6	0.8		0.3	0.4	2.6	2.4	1.7	0.2	0.1	
3	0.1	0.2	0.4	2.0	2.9	2.2	0.0	0.2	0.2		0.1	0.3	2.5	2.3	0.9	0.1	0.0	
4	0.0	0.0	0.3	0.5	1.1	1.5	0.0	0.1	0.2		0.1	0.3	2.2	2.1	0.4	0.1	-0.1	
5	-0.3	-0.1	0.1	0.4	0.6	0.0	-0.3	-0.4	0.2		0.0	0.3	3.0	1.8	0.4	0.0	-0.1	
6	-0.3	-0.5	-0.3	0.3	-0.2	0.0	-0.3	-0.4	-0.1		-0.2	0.2	0.8	0.0	0.4	0.0	-0.2	
7	-0.4	-1.5	-0.5	0.3	-0.5	-0.5	-0.4	-0.4	-0.4		-0.3	0.1	0.2	0.9	0.3	0.2	-0.3	
8	-0.3	-21.6	-0.5	0.1	-0.6	0.4	-0.6	-0.5	-0.8		-1.0	0.0	-0.1	0.7	0.2	-0.3	-0.5	
9	-0.4	-1.7	-1.3	0.1	-0.6	0.4	-0.6	-0.6	-2.0		-1.1	-0.3	-0.1	0.7	0.1	-0.3	-0.7	
10		-3.1	-1.4	0.1	-0.8	0.3	-0.7	-0.6	-2.0		-1.2	-0.3	-0.2	0.6	0.1	-0.3	-0.7	
11		-3.5	-1.5	0.0	-1.1	0.2	-0.8	-0.6	-2.3		-1.3	-0.4	-0.5	0.1	0.2	-0.3	-0.9	
12			-1.9	0.0	-2.3	0.2	-0.9	-0.7	-2.3		-1.9	-0.4	-0.3	-0.2	-0.3	-0.4	-1.1	
13			-5.0	-0.1	-2.7	0.2	-0.9	-1.0			-2.1	-0.4	-0.7	-0.8	-0.7	-0.4	-1.7	
14				-0.1	-3.0	-0.1	-2.6	-1.2			-2.3	-1.9	-0.9	-1.0	-1.3	-0.5	-3.8	
15				-0.2	-4.7	-0.1	-2.7	-1.6			-2.4	-2.4	-1.1	-2.2	-1.8	-0.6	-3.9	
16				-0.3	-4.8	-0.3	-3.8	-2.4			-2.6	-2.9	-1.1	-1.9	-2.4	-0.6		
17				-0.3	-4.9	-0.4	-6.1	-2.5			-2.9	-6.4		-2.0		-1.2		
18				-0.4	-5.5	-0.6	-7.7	-4.4			-3.3			-2.6		-2.3		
19				-1.4	-6.8	-0.8	-8.8				-33.9			-2.0		-2.5		
20				-2.1	-6.9	-1.0								-3.2		-4.5		
21														-3.3		-4.6		
22														-3.5		-5.2		
23														-4.0		-6.1		
24														-8.0				
25														-9.2				
26																		
27																		
n	9	11	11	20	20	20	19	18	12		10	17	16	26	16	24	15	275
Total X	-0.9	-9.0	-10.1	3.4	-31.7	9.7	-37.3	-15.7	-7.4		-25.6	-13.5	8.9	-31.5	-1.1	-32.0	-11.8	-204.2
Average	-0.1	-.81	-.91	.17	-1.6	.48	1.95	-.87	-.62		-1.71	-.79	.56	-1.21	-.06	-1.33	-.79	-.74
Largest X	.5	2.4	.8	2.4	5.3	3.0	.1	.7	.8		.7	.3	4.4	3.2	.3	0.3	0.1	
Smallest X	-.4	-3.5	-5.0	-2.1	-6.9	-1.0	-8.8	-4.4	-2.3		-3.9	-6.4	-1.1	-9.2	-2.4	-6.1	-3.9	
Range (R)	.9	5.9	5.8	4.5	12.2	4.0	8.9	5.1	3.1		4.6	6.7	5.5	12.4	4.5	6.4	4.0	94.5
Total X^2	.87	35.89	36.49	19.54	270.9	26.05	[illegible]	39.57	19.52		[illegible]	92.97	[illegible]	[illegible]		126.4	24.76	
Average X^2	.089	3.26	3.31	1.00	13.5	1.30	10.86	2.20	1.63		3.50	5.53	2.72	[illegible]	[illegible]	5.26	1.65	
$\sqrt{\Sigma(X^2) - (X)^2/n}$	.089	2.61	2.17	.07	10.99	1.70	7.06	1.44	1.25		3.74	2.91	2.42	8.77	1.25	3.49	2.04	
$\sqrt{V}$ = Std. Dev.	.30	1.6	1.5	.27	3.3	1.3	2.66	1.2	1.10		1.3	1.71	1.56	2.96	1.10	1.87	1.0	15.92





1-E Chart to set limits:

Date: July 1, 1947

Uranium Control and Inspection Department

Signed: F. Strang

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WEIGHT AGREEMENT CONTROL CHART - NO. 2-E

Weighing Parties: K-25 and Y-12

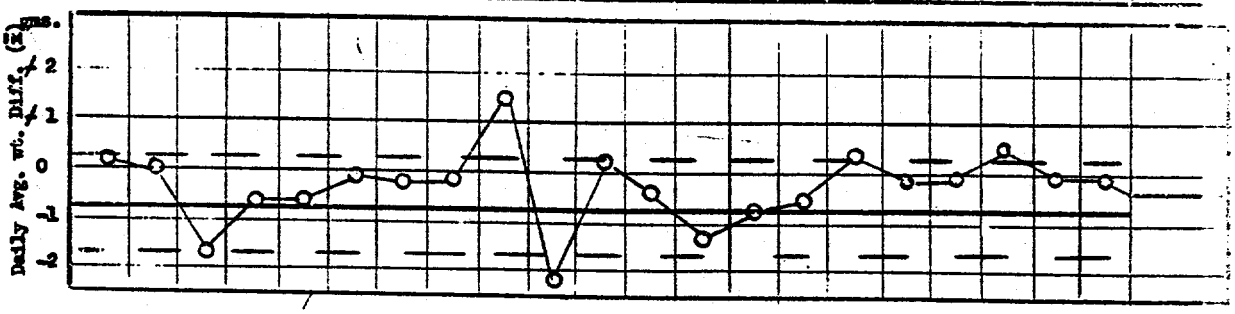
Duration Period: June 1947

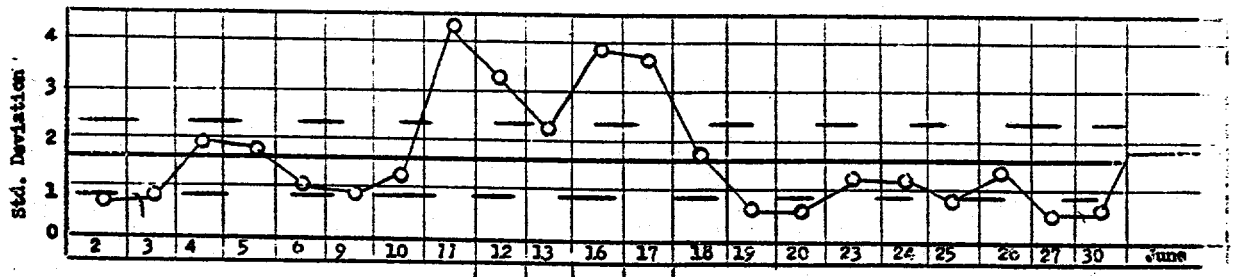
Material Designation: 2835

Type Weight: Gross

K-25 Weight minus Y-12 Weight in Gross

Date June	2	3	4	5	6	9	10	11	12	13	16	17	18	19	20	23	24	25	26	27	30	Total
1	.3	.2	.5	.4	.4	-.7	.1	-3.9	-.5	-3.6	-3.6	1.3	-1.5	-.1	-1.5	.3	-1.3	.3	.6	.4	.3	
2	.5	0	-1.0	-3.8	-3.1	.4	.6	-4.9	3.5	-3.8	-3.8	1.9	-5.0	-1.3	-.2	-.1	-.7	-.4	.2	-.8	-.3	
3	1.4	.2	.2	.4	-1.0	-1.9	-3.9	-2.7	1.3	1.8	-1.3	7.7	-.3	-.6	.2	4.3	-.1	.3	-.3	.1	.3	
4	-.5	-1.6	.4	.4	-.3	.3	.4	-2.1	3.1	1.4	-2.7	-6.6	-.3	-1.4	.1	.4	-.4	.2	1.5	.2	.4	
5	.9	.4	-.3	-1.0	-.1	-.5	.7	-6.4	8.2	-2.5	5.2	-5.6	.4	-.1	-.2	.4	0	-.2	2.6	.2	-.4	
6	.3	.4	-.4	-.1	-.6	.1	-1.0	3.2	-.6	-1.7	3.2	2.4	-2.2	-.9	-.3	-.7	-.7	-.3	.2	-.1	.5	
7	.2	-.1	-.3	0	.5	-.3	.5	-4.4	.6	-2.1	2.77	.2	.3	-2.2	-.5	-.5	-1.6	.4	-2.3	-1.0	-.4	
8	.3	-.1	-3.6	.2	-.9	.3	.6	4.4	-3.4	-1.4	5.2	1.7	-1.9	-.4	-1.0	.4	-1.6	.3	1.4	.4	.6	
9	.5	.1	-2.1	-2.2		-.3	-3.3	7.2		-4.8	3.3	4.8			.1	-.3	.9	.3			-.2	
10	.4	-.1	-4.6	.2		-.2	-.3	1.0		.5	.8	.8			-.4	.1	-.3	.1			-.2	
11	.2	-.2	-2.8	-3.6		-1.4	.1	2.2		-4.7	[illegible]	-1.6			1.0	.9	3.7	-1.6			0	
12	.4	-.4	.4	-3.8		2.6	-2.3	-4.0		-3.2	[illegible]	-3.1			-1.7	1.9	-.8	.2			-.4	
13	-.4	0	-4.1	-2.8		.1	-2.3	-7.0		-1.3	5.8	3.0			-1.3	-.3	1.1	-2.2			.8	
14	-2.7	-.1	-4.9	.3		-.5	-.1	-3.4		-3.9	-.6	-5.8			-.4	-1.1	.6	.1			.2	
15	.3	-.8	-2.5	.6		0	.9	-7.8		.6	-5.5	-5.5			-.3	-1.0	2.8	.1			1.3	
16	.1	-.7	-2.9	-.2		.3	-.3	-6.6		-5.9	-4.3	-3.5			0	1.4	-.4	-.3			.2	
17	.4	-.1					.1				[illegible]	1.2					-.2				-.5	
18	.3	-.2					.8				[illegible]	-4.1					-.3				-.3	
19	-.3	.1					.4				4.6	-1.3					-1.8				-.3	
20	.1	-.5					.3				1.6	-4.1					0				-.2	
21	0	-.1					.6				-2.0	.2					0				-.4	
22	.2	-.2					.7				9.9	-.4					-.7				0	
23	.4	3.4					0				3.3	4.2					-.5				-1.3	
24	.4	.4					.4				3.3	1.6					-1.3				-1.4	
25	0	.1																				
26	-.4	2.5																				
27	-.2	.2																				
28	-.2	-.2																				
Total X	5.5	-.1	-27.2	-10.6	-5.1	-1.7	-6.3	-35.2	12.2	-34.6	5.4	-1.06	-10.5	-7.0	-8.4	6.3	-4.8	-2.7	3.9	-.6	-1.7	-13.4
Average	.17	.004	-1.7	-.66	-.64	-.106	-.26	-2.2	[illegible]	-2.16	.23	-.44	-1.3	-.88	-.53	.381	-.20	-.17	.49	-.075	-.07	.42
Largest X	2.5	3.4	.5	.6	.5	2.6	.9	7.2	8.2	1.8	999	7.7	.4	-.1	.2	4.3	3.7	.3	2.6	-.4	1.1	
Smallest X	-2.7	-1.6	4.9	-3.8	-3.1	-19	-3.9	-7.8	-3.4	-5.9	-5.8	-5.8	-5.0	-2.2	-1.7	-1.0	-1.8	-2.2	-2.3	-1.0	-1.4	
Range (R)	5.2	5.0	5.4	4.4	3.6	4.5	4.8	15.0	11.6	7.7	15.7	13.5	5.4	-2.1	1.9	5.3	5.5	2.5	4.9	1.4	2.5	
Total (X^2)	19.02	16.42	103.8	56.58	12.29	13.99	42.23	379.5	103.3	155.8	57.1	326.3	36.13	9.83	9.72	28.59	38.56	8.41	16.79	2.06	8.13	
Average X^2	.591	.684	6.49	3.54	1.536	.87	1.76	23.71	12.91	9.74	14.88	13.60	4.52	1.23	.61	1.78	1.61	.53	2.10	.26	.34	
$V=(X^2)-(X)^2$	.56	.68	3.60	3.10	1.13	.86	1.68	18.87	10.66	5.07	14.83	13.40	2.83	.46	.33	1.63	1.57	.50	1.86	.26	.34	
$\sqrt{V}$ = Std. Dev.	.75	.82	1.9	1.75	1.06	.93	1.3	4.34	3.26	2.25	3.85	3.66	1.68	.65	.58	1.28	1.25	.71	1.36	.51	.58	





Lack of Control K-25 in Control | Lack of Control K-25 in control | (na16) Danger Zone K-25 in Control | Lack of Control K-25 in Control | Lack of Control K-25 in Control

Monthly Average value

Uranium Control and Inspection Department

Date: July 2, 1947

Signed: [illegible]

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