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*Harvard-Smithsonian Center for Astrophysics*

## **Project PHaEDRA - Evelyn F. Leland - Series Reductions and M5 variables #44**

Extracted on Dec-02-2022 11:10:41

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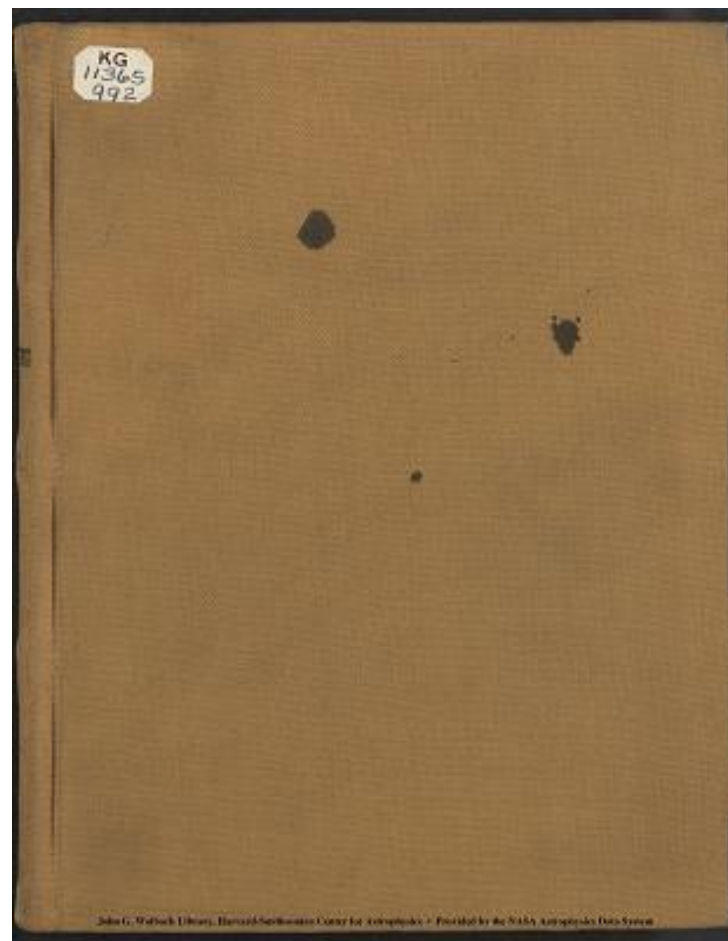
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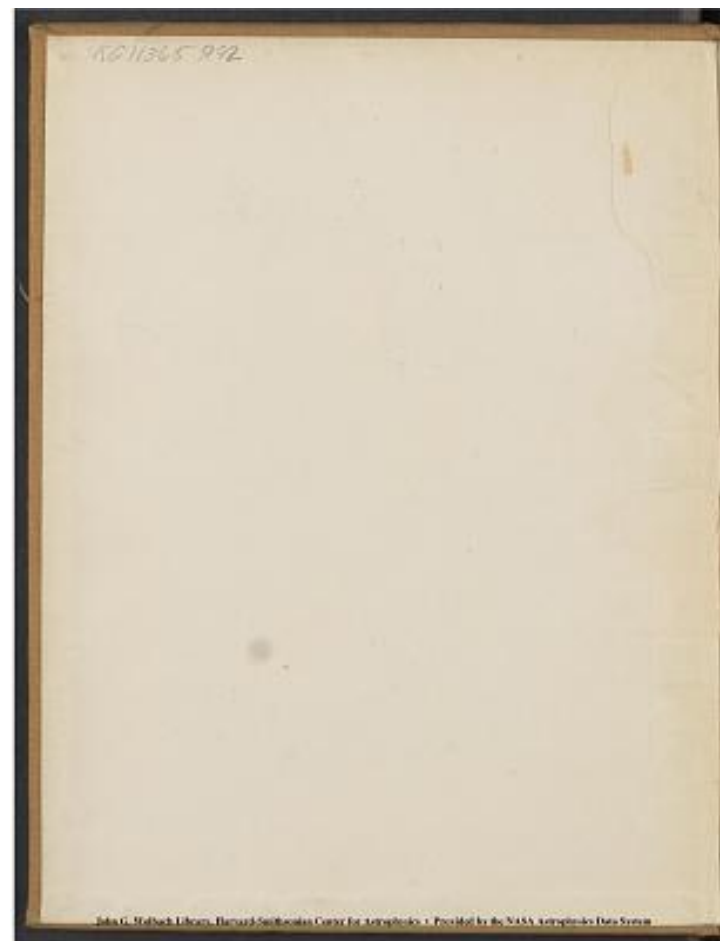
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11365  
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C4 MW 1047

0 1 2 3 4 5 6 7 8 9

[[image]]

7.

Ex. 1, 3, 5 (c)

~~[[image]]~~

[[image]]

10

9.5 Ex. 2 (a)

9.0

8.5

8.0

[[image]]

7.5 Ex 4 With Screen

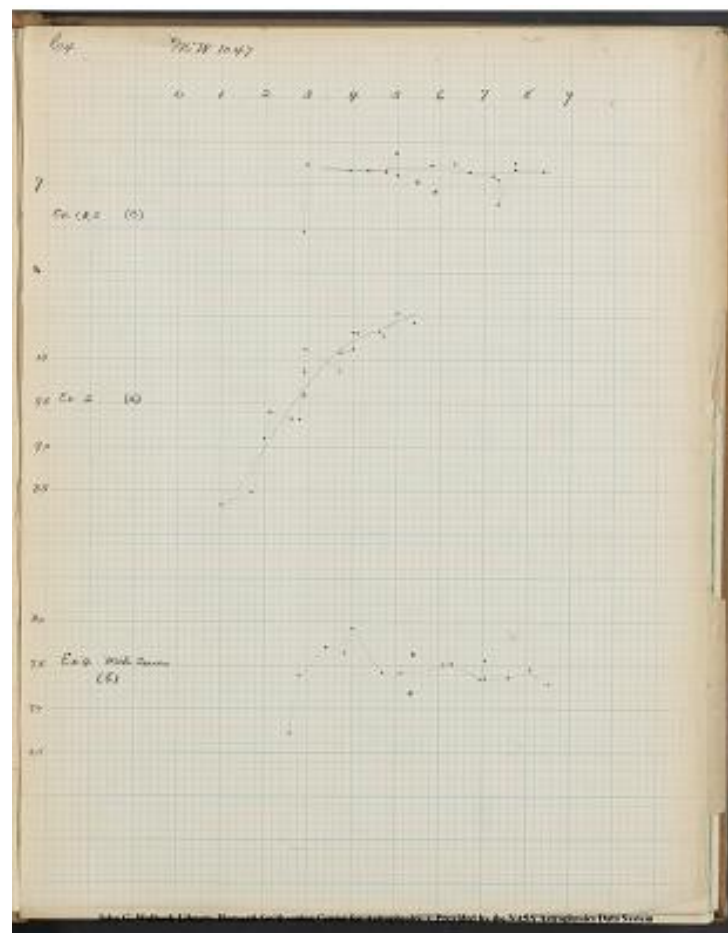
(b)

7.0

6.5

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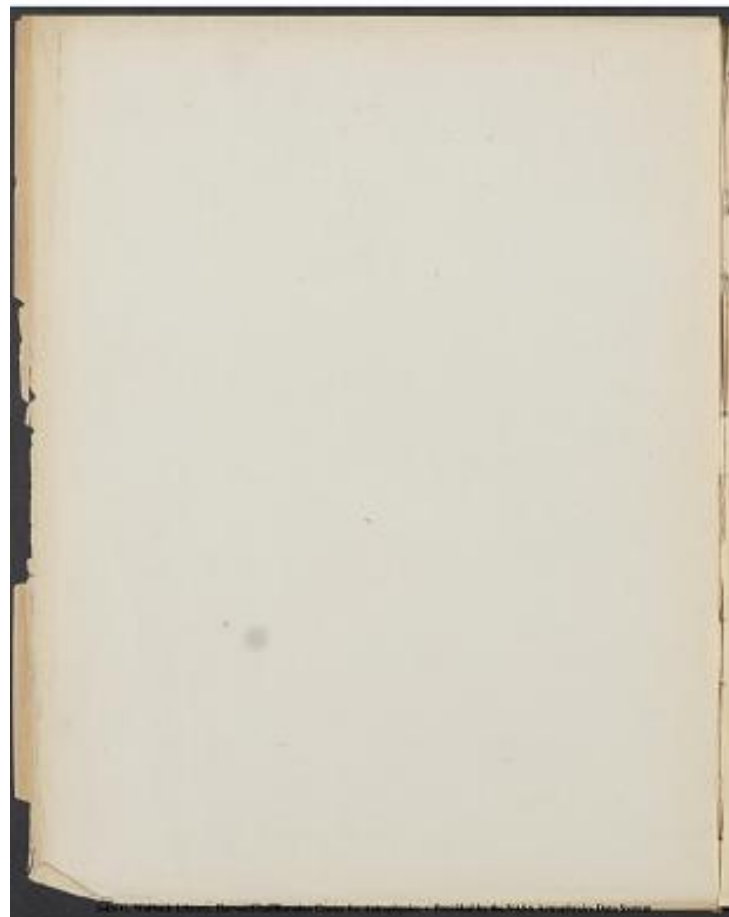


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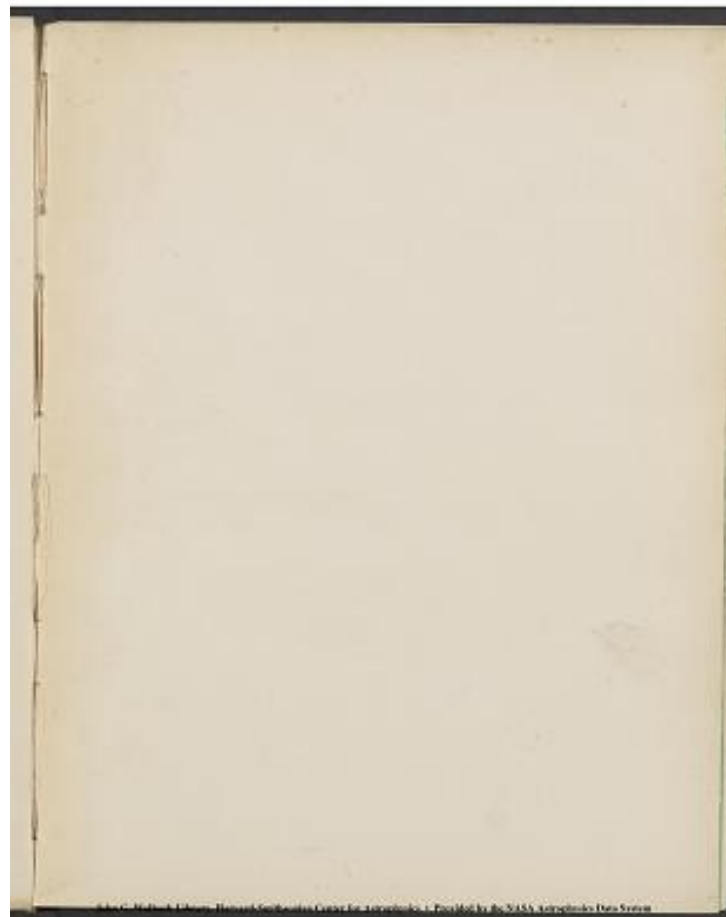
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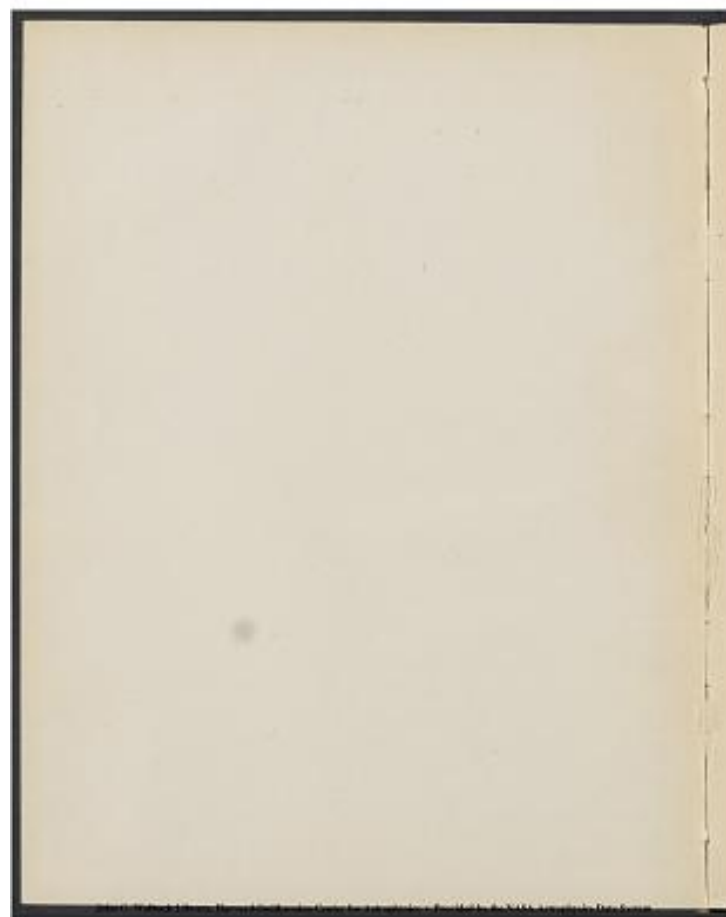
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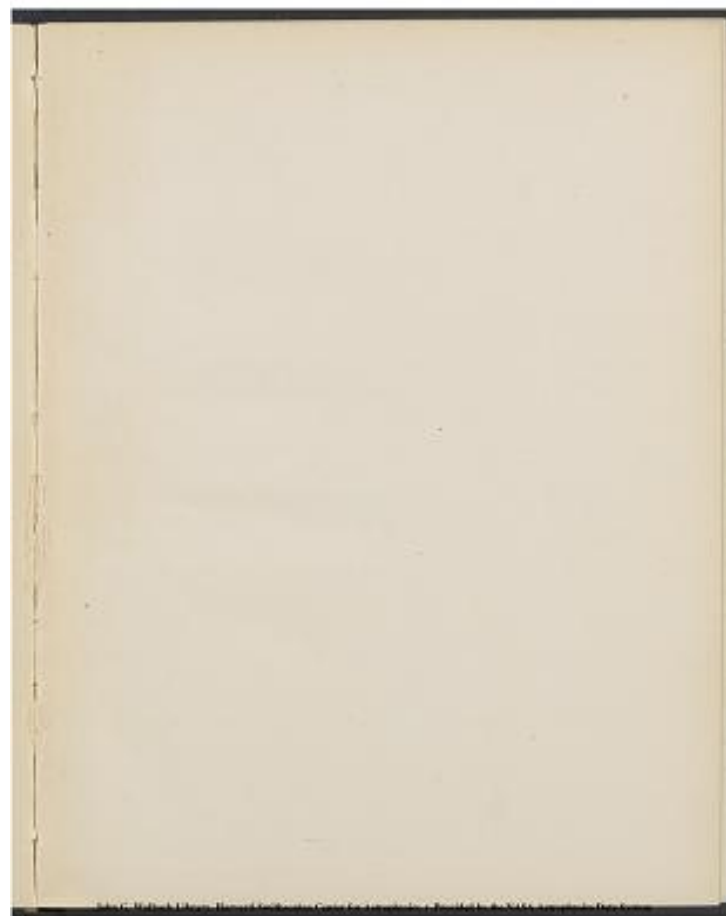
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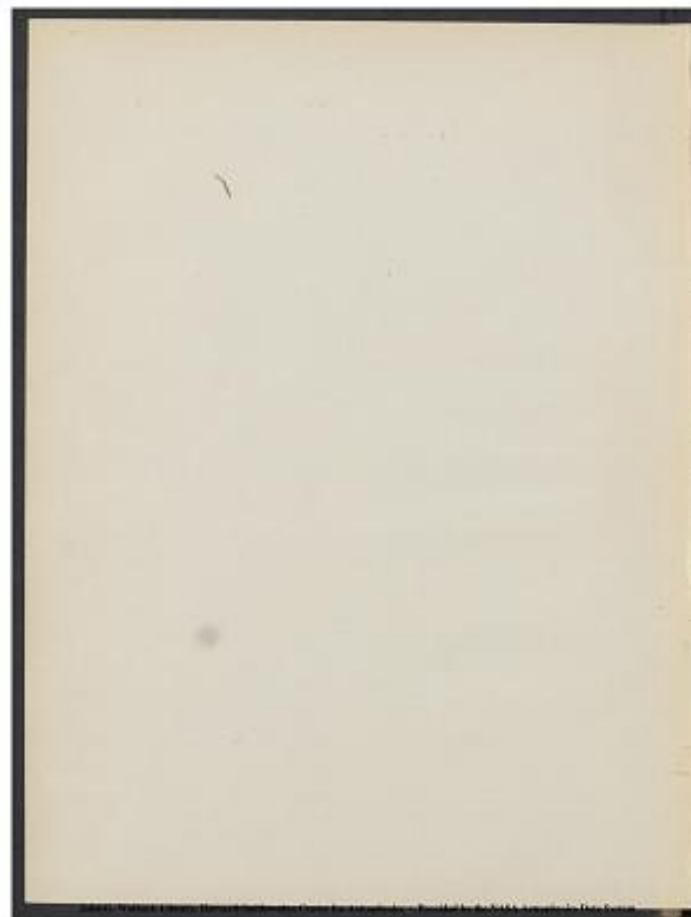
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1

Contents.

[[3 columned table]]

--|--|

Object | Page |  
Variables in Messier 5. | |

No 76	4,5,6.
No 77	7,8,9.
No 78	10,11,12
No 79	13,14,15
No 80	16,17,18
No 81	19,20,21
No 82	22,23,24
No 83	25,26,27
No 84	29,30,31
No 85	32,33,34
No 86	35,36,37
No 87	38,39,40
No 88	41,42,43
No 89	44,45,46
No 90	47,48,49

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Handwritten astronomical data table on aged paper, titled "Variables in Messier 5." and "Series Reductions and M5 variables #44". The table has three columns: "Object", "Page", and "Variables in Messier 5.".

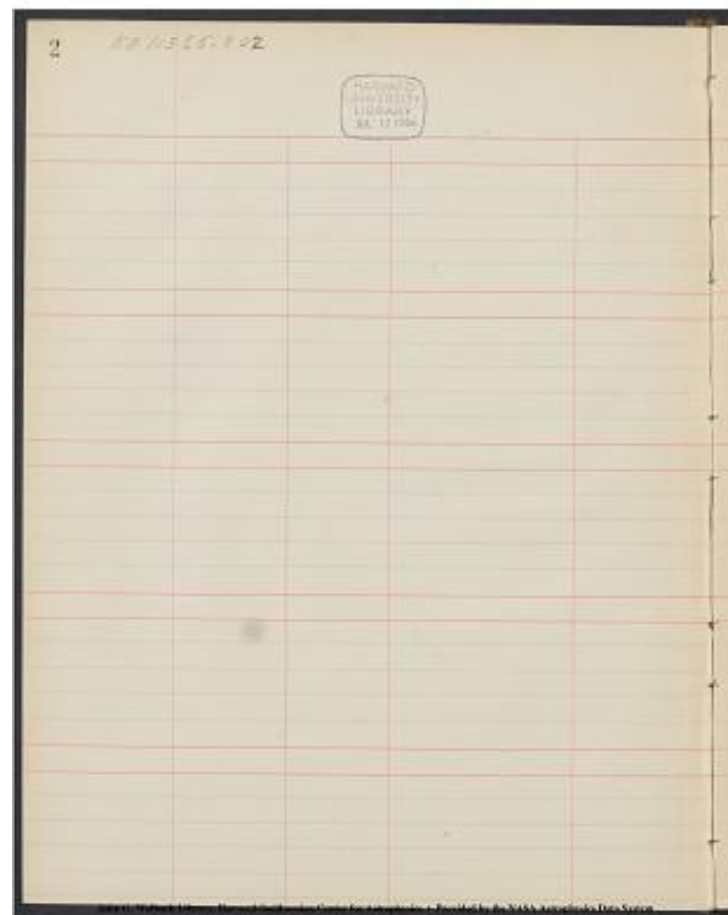
Object	Page	Variables in Messier 5.
No 76	4,5,6.	
No 77	7,8,9.	
No 78	10,11,12	
No 79	13,14,15	
No 80	16,17,18	
No 81	19,20,21	
No 82	22,23,24	
No 83	25,26,27	
No 84	29,30,31	
No 85	32,33,34	
No 86	35,36,37	
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No 88	41,42,43	
No 89	44,45,46	
No 90	47,48,49	

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4  
 Variables in M5  
 May 17, 1913  
 [[2 columned table]]

No 76	x10458
g 3, 1 h	
x10973	
g 3, 1 h	
x10808	
h 2, 1 l	
x10974	
g 3, 2 h	
x10805	
g 3, 1 h	
x12123	
g 3, 1 h	
x10967	
g 3, 2 h	
x10806	
g 3, 2 h	
x8452	
g 2, 3 h	
x8467	
h 2, 1 l	

[[/table]]

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Variables in M5	
No	h
x10458	
g 3, 1 h	
x10973	
g 3, 1 h	
x10808	
h 2, 1 l	
x10974	
g 3, 2 h	
x10805	
g 3, 1 h	
x12123	
g 3, 1 h	
x10967	
g 3, 2 h	
x10806	
g 3, 2 h	
x8452	
g 2, 3 h	
x8467	
h 2, 1 l	

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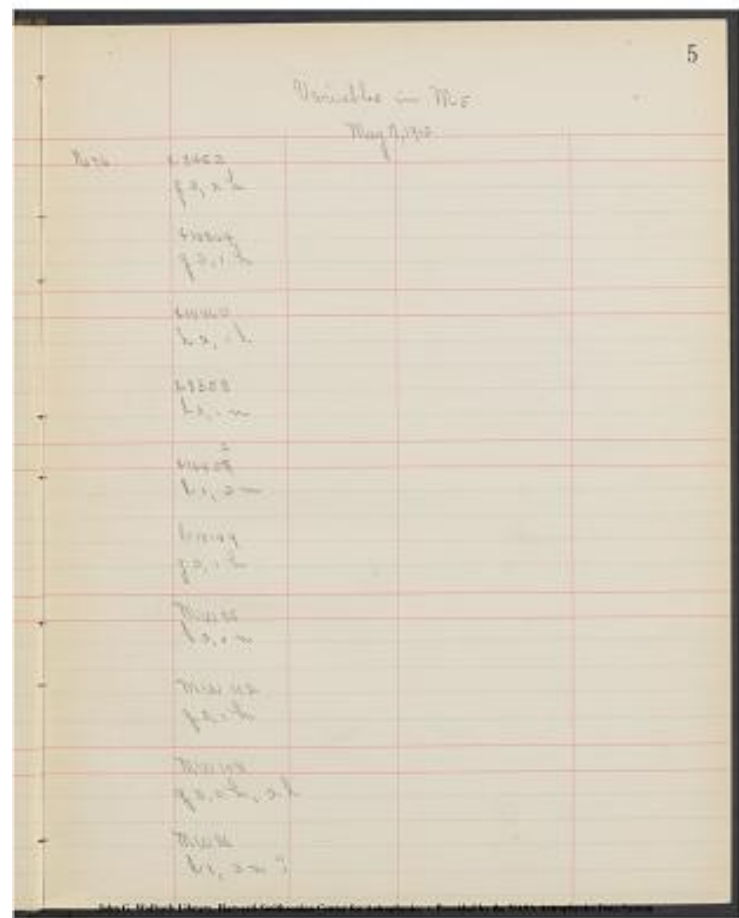
5  
 Variables in M5  
 May 17, 1913

[[2 columned table]]

No 76   x8453
g 3, 2 h
x10804
g 3, 1 h
x10460
h 2, 1 l
x8358
l 3, 1 n
x1045 <del>8</del> 2
l 1, 3 n
l10149
g 3, 1 h
MW85
l 3, 1 n
MW112
g 3, 1 h
MW 108
g 3, 0 h, 2 l
MW 86
l 1, 3 n°,

[[/table]]

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6  
Variables in M5  
May 17, 1913

No76 MW 110  
h 2, 1 l

MW 84  
h 2, 1 l

MW 106  
h 2, 1 l

MW 111  
h 2, 1 l

MW 107  
h 2, 1 l

MW 109  
h 2, o l, 3 v

MW 105  
h 2, 1 l

Time	Name	Mag
	No76	h 2, 1 l
	MW 110	h 2, 1 l
	MW 84	h 2, 1 l
	MW 106	h 2, 1 l
	MW 111	h 2, 1 l
	MW 107	h 2, 1 l
	MW 109	h 2, o l, 3 v
	MW 105	h 2, 1 l

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Variables in M5 7  
May 22, 1913

No 77 x10452  
h 2, 1 l

x10458  
l3, 2 w

x8358  
h 2, 1 l

x10460  
g 3, 1 h

x10804  
g 1, 3 h

x8453  
g 3, 1 h

x8467  
g 1, 4 h

x8452  
g 3, o h, 3 l

x10806  
g 3, 1 h

x10967  
g 3, 1 h

Variables in M5 May 22, 1913		7
77	x10452	
	h 2, 1 l	
	x10458	
	l3, 2 w	
	x8358	
	h 2, 1 l	
	x10460	
	g 3, 1 h	
	x10804	
	g 1, 3 h	
	x8453	
	g 3, 1 h	
	x8467	
	g 1, 4 h	
	x8452	
	g 3, o h, 3 l	
	x10806	
	g 3, 1 h	
	x10967	
	g 3, 1 h	

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8  
Variables in M5  
May 22, 1913

No 77 x12123  
h 1, 2 l

x10805  
h 1, 2 l

x10974  
l 1, 3 n

x10808  
g 3, o h 2 l

x10973  
h 2, o l, 3 n

C10149  
h 1, 2 l

MW 85  
h 1, 2 l

MW 112  
l 1, 3 n

MW 108  
h 1, 2 l

MW86  
g 1, 3 h

8

Variables in M5

May 22, 1913

No 77 x12123

h 1, 2 l

x10805

h 1, 2 l

x10974

l 1, 3 n

x10808

g 3, o h 2 l

x10973

h 2, o l, 3 n

C10149

h 1, 2 l

MW 85

h 1, 2 l

MW 112

l 1, 3 n

MW 108

h 1, 2 l

MW86

g 1, 3 h

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Variables in M5  
May 22, 1913

[No 77]MW 110|  
---[h2, 1l|  
---[MW84|  
---[h2, 1l|  
---[MW106|  
---[h2, 1l|  
---[MW 111|  
---[l1, 3n|  
---[MW107|  
---[h2, 1l|  
---[MW82|  
---[l2, 2n|  
---[MW109|  
---[h2, 0l, 3n|  
---[MW105|  
---[h3, 1l|

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9

Variables in M5  
May 22, 1913

Day	MW 110		
	h2, 1l		
	MW 84		
	h2, 1l		
	MW 106		
	h2, 1l		
	MW 111		
	h2, 1l		
	MW 107		
	h2, 1l		
	MW 82		
	l2, 2n		
	MW 109		
	h2, 0l, 3n		
	MW 105		
	h3, 1l		
	MW 107		
	h2, 1l		
	MW 82		
	h2, 1l		
	MW 109		
	h2, 0l, 3n		
	MW 105		
	h3, 1l		

Star, Robert L. Loomis, Harvard-Smithsonian Center for Astrophysics - Provided by the NASA Astrophysics Data System

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$$|---|g_{2,3h}|$$

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10		Smiles - Mr	
Days	Notes	Days	Notes
	10/10		
	10/11		
	10/12		
	10/13		
	10/14		
	10/15		
	10/16		
	10/17		
	10/18		
	10/19		
	10/20		
	10/21		
	10/22		
	10/23		
	10/24		
	10/25		
	10/26		
	10/27		
	10/28		
	10/29		
	10/30		
	10/31		

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11  
Variables in M5  
May 27, 1913

No 78 x10804  
g 3, 1 h

x10460  
l 1, 4 w

x8358  
g 3, 1 h

x10458  
h 2, 1 h

x10452  
h 2, 1 l

l10149  
h 2, 1 l

MW 85  
h 2, 1 l

MW 112  
g 3, 1 h

MW 108  
l 2, 2 w

MW 86  
g 3, 1 h

Variables in M5 May 27, 1913			
No 78	x10804		
	g 3, 1 h		
	x10460		
	l 1, 4 w		
	x8358		
	g 3, 1 h		
	x10458		
	h 2, 1 h		
	x10452		
	h 2, 1 l		
	l10149		
	h 2, 1 l		
	MW 85		
	h 2, 1 l		
	MW 112		
	g 3, 1 h		
	MW 108		
	l 2, 2 w		
	MW 86		
	g 3, 1 h		

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MW 105  
h 2, 1 l

12		Variables - 11/10	
Days	Notes	Days	Notes
	11/10		
	11/11		
	11/12		
	11/13		
	11/14		
	11/15		
	11/16		
	11/17		
	11/18		
	11/19		
	11/20		
	11/21		
	11/22		
	11/23		
	11/24		
	11/25		
	11/26		
	11/27		
	11/28		
	11/29		
	11/30		

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13  
Variables in M5  
June 2, 1913

No 79 x10452  
l 1, 4 w

x10458  
h 3, 1 l

l10149  
l 1, 3 w

x8358  
g 3, 1 h

x10460  
h 2, 1 l

x10804  
g 3, 1 h

x8453  
l 1, 3 n

x8467  
l 1, 3 n

x8452  
h 1, 2 l

x10806  
g 4, 1 h

Variables in the		June 2, 1913	
10452	l 1, 4 w		
10458	h 3, 1 l		
10149	l 1, 3 w		
8358	g 3, 1 h		
10460	h 2, 1 l		
10804	g 3, 1 h		
8453	l 1, 3 n		
8467	l 1, 3 n		
8452	h 1, 2 l		
10806	g 4, 1 h		

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14  
Variables in M5  
June 2, 1913

No 79 410967  
h2, 1l

412123  
h2, 1l

41085  
l1, 3n

410974  
g3, 0h, 2l

410808  
h1, 2l

410973  
h2, 1l

MW85  
g3, 1h

MW112  
g3, 1h

MW108  
l1, 3n

mw86  
g3, 1h

14			
Variables in M5			
June 2, 1913			
No 79	410967		
	h2, 1l		
	412123		
	h2, 1l		
	41085		
	l1, 3n		
	410974		
	g3, 0h, 2l		
	410808		
	h1, 2l		
	410973		
	h2, 1l		
	MW85		
	g3, 1h		
	MW112		
	g3, 1h		
	MW108		
	l1, 3n		
	mw86		
	g3, 1h		

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Variables in M5  
June 2, 1913

15

No79 MW110  
h2, 1l

MW84  
h1, 2l?

MW 106  
l2, 2n

MW111  
h2, 1l

MW107  
l1, 3h

MW82  
l2, 2h

MW19  
h2, 1l

MW105  
l1, 3h

Variables in M5 June 2, 1913		15
No79	MW110 h2, 1l	
	MW84 h1, 2l?	
	MW 106 l2, 2n	
	MW111 h2, 1l	
	MW107 l1, 3h	
	MW82 l2, 2h	
	MW19 h2, 1l	
	MW105 l1, 3h	

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16  
 Variables in M5  
 June 10, 1913  
 [[column table]]  
 --|--  
 No 80|MW112|  
 |h2,1||  
 ||  
 |MW 108|  
 |g4,1h|  
 |MW 86 |  
 |l1,3n|  
 |MW 84|  
 |L2,1l|  
 |MW106|  
 |MW111|  
 |h3,0h,4n|  
 |MW 107|  
 |g3,1h|  
 |MW 82|  
 |h1,2|

16		Variables in M5	
		June 10, 1913	
No	Variable		
80	h2,1		
108	g4,1h		
86	l1,3n		
84	L2,1l		
106	h3,0h,4n		
111	g3,1h		
107	h1,2		
82			

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### Variables in M5 June 10, 1913

x10806  
h2,1l

x12123  
h2,1l

x10974  
l1,4n

x10808  
h2,1l

x10973  
h2,1l

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19

Variables in M5  
June 11, 1913

No 81 || MW 85  
I4, 1n

MW112  
n1, 20

MW108  
I3, 1n

MW86  
I3, 1n

MW110  
n2, 10

MW84  
I3, 0n, 20

MW106  
I3, 1n

MW111  
n1, 20

MW107  
I3, 1n

MW82  
I3, 1n

	Time	Magnitude	Position
No 81    MW 85	I4, 1n		
MW112	n1, 20		
MW108	I3, 1n		
MW86	I3, 1n		
MW110	n2, 10		
MW84	I3, 0n, 20		
MW106	I3, 1n		
MW111	n1, 20		
MW107	I3, 1n		
MW82	I3, 1n		

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20  
 Variables in M5  
 June 11, 1913  
 No 81 MW109  
 L3, in

mw 105  
 L3, in

Gio149  
 n1, 20?

x8469  
 l3, 1w

x8453  
 of1

x10804  
 n2, 10

x10460  
 h, 2l

x8358  
 L3, in?

x10458  
 q2, 3h

x10452  
 n1, 20

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Name	Magnitude	Remarks
mw 105	L3, in	
Gio149	n1, 20?	
x8469	l3, 1w	
x8453	of1	
x10804	n2, 10	
x10460	h, 2l	
x8358	L3, in?	
x10458	q2, 3h	
x10452	n1, 20	

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21

Variables in M5  
June 11, 1913

No 81 || X10808  
l3, 1n

x10974  
l3, 1n

x10805  
g4, 1h

x12123  
l3, 0n, 20

x10967  
n1, 20

x10806  
h2, 1l

x8452  
l3, 0n, 20

x10973  
l2, 2n

~~[[/strikethrough]] x10804 [[/strikethrough]]~~

21

Variable - No

81

l3, 1n

l3, 1n

g4, 1h

l3, 0n, 20

n1, 20

h2, 1l

l3, 0n, 20

l2, 2n

~~[[/strikethrough]] x10804 [[/strikethrough]]~~

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Variables in M5  
June 11, 1913

No 82  
410973  
h1,2l

48452  
t4,1g

410806  
h1,2l

410967  
h2,il

412123  
h2,il

410805  
g3,ih

410974  
f4,ig

410808  
l3,in?

?  
410452  
g3,ih

410452  
h2,il

Date	Name			
	h1,2l			
	t4,1g			
	h1,2l			
	h2,il			
	h2,il			
	g3,ih			
	f4,ig			
	l3,in?			
	g3,ih			
	h2,il			

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Variables in M5  
June 11, 1913

No 82 | Psi 8358  
[[~~o~~ F ~~l3,1n?~~]]

Psi 10460  
l3,1n?

Psi 10804  
Too poor

Psi 8453  
f4,1g

Psi 8467  
g3,1h

l10149  
Too poor in reg.

MW 85  
g3,2h

MW112  
l2,3n

MW108  
h1,2l

MW 86  
g3,1h

Star	Notes
10460	l3,1n?
10804	Too poor
8453	f4,1g
8467	g3,1h
10149	Too poor in reg.
85	g3,2h
112	l2,3n
108	h1,2l
86	g3,1h

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Variables in M5  
June 11, 1913

No 83 | MW105  
h3,1l

MW109  
l3,1n

MW82  
h2,1l

MQ107  
l3,1n

MW111  
n1,2o

MW106  
l3,1n

MW84  
l3,1 ~~l~~ ~~n~~

MW110  
l3,0n,2o

MW86  
l3,1n

MW 108  
l3,1n

Name	Position	Other
MW105	h3,1l	
MW109	l3,1n	
MW82	h2,1l	
MQ107	l3,1n	
MW111	n1,2o	
MW106	l3,1n	
MW84	l3,1, l, n	
MW110	l3,0n,2o	
MW86	l3,1n	
MW 108	l3,1n	

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26  
Variables in M5  
June 11, 1913

No 83 MW112  
n1,20

MW85  
l3,1n

\*8467  
g4,1n

x8453  
f3,2g

x10804  
f3,1g

x10460  
f3,2g

x8358  
q3,1h

x10458  
f4,1g

x10452  
f3,1g

x10808  
f3,2g

[Left side text]  
Reject  
U.S. Measured  
See pages 27 + 28    [[/Close]]

Star Name	Right Ascension	Declination
No 83 MW112	21.20	21.20
MW85	21.20	21.20
*8467	21.20	21.20
x8453	21.20	21.20
x10804	21.20	21.20
x10460	21.20	21.20
x8358	21.20	21.20
x10458	21.20	21.20
x10452	21.20	21.20
x10808	21.20	21.20

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Variables in M5  
June 11, 1913  
No 83 x10974  
L2, 2n

x10805  
L1, 3n

x12123  
n2, 10?

x10967  
l3, 1n

x10806  
L3, 1n

x8452  
of 1

x10973  
L3, 1n

x10808  
L3, 1n

x10452  
L3, 1n

x10458  
L3, 1n

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Variables in M5 June 11, 1913	
x10974	L2, 2n
x10805	L1, 3n
x12123	n2, 10?
x10967	l3, 1n
x10806	L3, 1n
x8452	of 1
x10973	L3, 1n
x10808	L3, 1n
x10452	L3, 1n
x10458	L3, 1n

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28  
Variables in M5  
June 11, 1913

No83 48358  
g3,1h

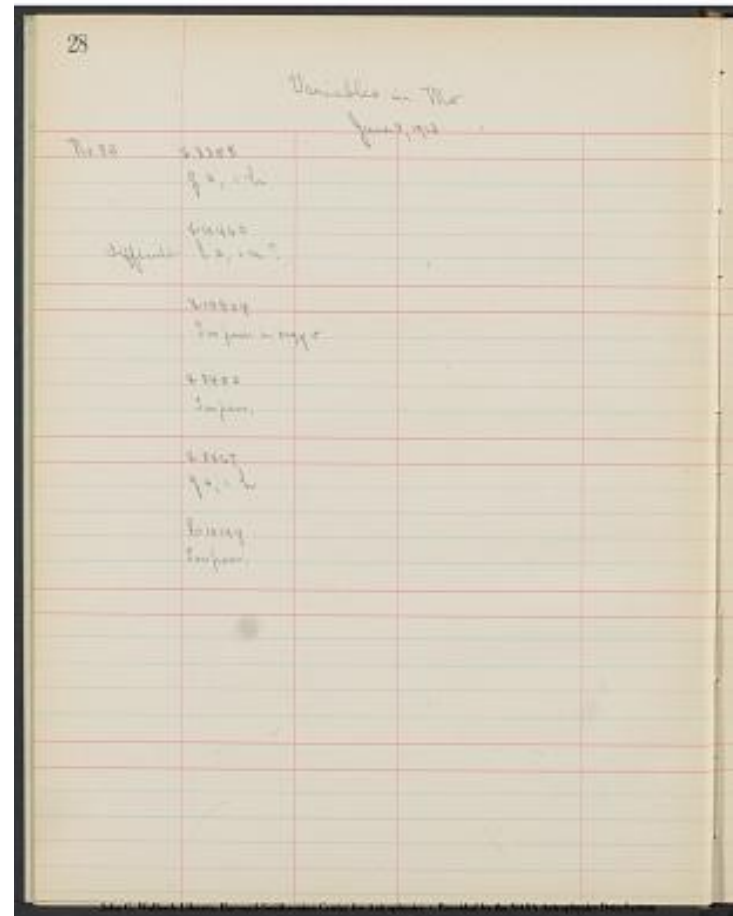
410460  
difficult I3,1n?

410804  
Too poor in reg of v[[?]]

48453  
Too poor

48467  
g4,1h

C10149  
Too poor



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Variables in M5  
June 12, 1913

| No 84 | MW85  
| | a4,b+c of flat |

| MW112 |  
| a4,ib |

| MW108 |  
| a4,2b |

| MW86 |  
| b3,1c |

| MW110 |  
| a4,1b |

| MW84 |  
| b3,2c |

| MW106 |  
| b2,3c |

| MW111 |  
| b1,3c |

| MW107 |  
| a4,1b |

| MW82 |  
| b2,2c |

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Variables in M5  
June 12, 1913

No	Star	a4, b+c of flat
	MW 85	a4, b+c of flat
	MW 112	a4, ib
	MW 108	a4, 2b
	MW 86	b3, 1c
	MW 110	a4, 1b
	MW 84	b3, 2c
	MW 106	b2, 3c
	MW 111	b1, 3c
	MW 107	a4, 1b
	MW 82	b2, 2c

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30

Variables in M5  
June 12, 1913

|No. 84|MW 109|  
|a4,ib|

|MW 105|  
|l2,3c|

|48464|  
|c1,4d|

|l10149|  
|c1,4d|

|48453|  
|c1,4d|

|410804|  
|c1,4d|

|48358|  
|l4,2c|

|410458|  
|a4,il|

|410452|  
|l5,2c|

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A handwritten notebook page, numbered 30 in the top left corner. The page is titled "Variables in M5" and "June 12, 1913" in the top right. The page contains a table with columns for "No.", "MW", and "a4,ib". The table lists several variables, including 48464, 48453, 410804, 48358, 410458, and 410452, with their corresponding MW numbers and a4,ib values. The handwriting is in cursive and the page is aged and slightly yellowed.

No.	MW	a4,ib
48464	109	105
48453	105	109
410804	109	105
48358	105	109
410458	109	105
410452	105	109

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31

Variables in M5  
June 13, 1913

No 84 410808  
c2,3d

48452  
c2,3d

410806  
l3,2c

410967  
a4,il

412123  
a3,2l

410805  
l3,3c

410974  
l2,4c

10973  
l3,2c

No 84 is very bright and so close to other stars that it is quite difficult to measure.

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31

Variables in M5  
June 13, 1913

No 84	410808		
	c2,3d		
48452			
	c2,3d		
410806			
	l3,2c		
410967			
	a4,il		
412123			
	a3,2l		
410805			
	l3,3c		
410974			
	l2,4c		
10973			
	l3,2c		

No 84 is very bright and so close to other stars that it is quite difficult to measure.

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32  
Variables in M5  
June 13, 1913

No 85 MW 85  
li, 4n

MW 112  
n1, 2o

MW 108  
l1, 3n

MW 86  
l3, 2n

MW 110  
n1, 2o

MW 84  
n2, 1o

MW 106  
l1, 3n

MW 111  
n1, 2o

MW 107  
l1, 3n

MW 82  
n2, 1o

32		Variables in M5 June 13, 1913	
Time	Time		
	li, 4n		
	MW 85		
	n1, 2o		
	MW 108		
	l1, 3n		
	MW 86		
	l3, 2n		
	MW 110		
	n1, 2o		
	MW 84		
	n2, 1o		
	MW 106		
	l1, 3n		
	MW 111		
	n1, 2o		
	MW 107		
	l1, 3n		
	MW 82		
	n2, 1o		

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33  
Variables in M5  
June 13, 1913

No 85 MW 109  
l3, 1n

MW 105  
h1, 2l

l10149  
500 four

410973  
g3, 1h

410805  
n2, 1o

410974  
x3, 1g ?

412123  
500 difficult

410967  
g3, 2h ?

410806  
l3, 1n

48452  
l3, 1n

Name	Magnitude	Position
No 85	10.9	
MW 109	10.5	
MW 105	10.5	
l10149	10.4	
410973	10.3	
410805	10.2	
410974	10.1	
412123	10.0	
410967	9.9	
410806	9.8	
48452	9.7	

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34  
Variables in M5  
June 13, 1913

No 85 x10808  
500 four

x10452  
h 3, 1 l

x10458  
g 3, 1 h

x8358  
500 diff.

x10460  
h 1, 2 l

x10804  
500 four

x8453  
500 four

x8467  
g 2, 3 h

No 85 is a difficult plan to measure especially on X plates.

Time	Variable	Remarks
	x10808	
	500 four	
	x10452	
	h 3, 1 l	
	x10458	
	g 3, 1 h	
	x8358	
	500 diff.	
	x10460	
	h 1, 2 l	
	x10804	
	500 four	
	x8453	
	500 four	
	x8467	
	g 2, 3 h	

No 85 is a difficult plan to measure especially on X plates.

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MW108  
I2,2n

Variables in the		June 12, 1912	
Re. 26	Re. 115		
	Re. 116		
	Re. 117		
	Re. 118		
	Re. 119		
	Re. 120		
	Re. 121		
	Re. 122		
	Re. 123		
	Re. 124		
	Re. 125		
	Re. 126		
	Re. 127		
	Re. 128		
	Re. 129		
	Re. 130		
	Re. 131		
	Re. 132		
	Re. 133		
	Re. 134		
	Re. 135		
	Re. 136		
	Re. 137		
	Re. 138		
	Re. 139		
	Re. 140		
	Re. 141		
	Re. 142		
	Re. 143		
	Re. 144		
	Re. 145		
	Re. 146		
	Re. 147		
	Re. 148		
	Re. 149		
	Re. 150		
	Re. 151		
	Re. 152		
	Re. 153		
	Re. 154		
	Re. 155		
	Re. 156		
	Re. 157		
	Re. 158		
	Re. 159		
	Re. 160		
	Re. 161		
	Re. 162		
	Re. 163		
	Re. 164		
	Re. 165		
	Re. 166		
	Re. 167		
	Re. 168		
	Re. 169		
	Re. 170		
	Re. 171		
	Re. 172		
	Re. 173		
	Re. 174		
	Re. 175		
	Re. 176		
	Re. 177		
	Re. 178		
	Re. 179		
	Re. 180		
	Re. 181		
	Re. 182		
	Re. 183		
	Re. 184		
	Re. 185		
	Re. 186		
	Re. 187		
	Re. 188		
	Re. 189		
	Re. 190		
	Re. 191		
	Re. 192		
	Re. 193		
	Re. 194		
	Re. 195		
	Re. 196		
	Re. 197		
	Re. 198		
	Re. 199		
	Re. 200		

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36  
Variables in M5  
June 13, 1913

No86 MW112  
n1,20

MW85  
diff. h3,il?

MW8467  
h2,il

I10149  
Too poor in reg of v[[?]]

48453  
Too poor.....[[?]]

410804  
Too poor.....[[?]]

410460  
Too poor.....[[?]]

48358  
Difficult

410458  
I3,1n

410452  
h2,1l

A handwritten ledger page, numbered 36 in the top left corner. The page is titled "Variables in M5" and dated "June 13, 1913". It contains a list of astronomical observations, each with a number and a description. The entries are written in cursive and include:

No	Variable
No86	MW112
n1,20	
MW85	diff. h3,il?
MW8467	h2,il
I10149	Too poor in reg of v[[?]]
48453	Too poor.....[[?]]
410804	Too poor.....[[?]]
410460	Too poor.....[[?]]
48358	Difficult
410458	I3,1n
410452	h2,1l

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37  
VARIABLES IN M5  
JUNE 13, 1913

NO 8b? x0808  
Joe Koov

x8452  
l1, 3u?

x10806  
l1, 3u?

x10967  
Difficult

x12123  
f3, 2g?

x10974  
Difficult-

x10805  
g3, 1h

x10972  
Diff

No 86 is difficult to measure especially on x Platis.

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37

Variables in the  
Junc 13, 1913

NO 8b?	x0808		
	Joe Koov		
	x8452		
	l1, 3u?		
	x10806		
	l1, 3u?		
	x10967		
	Difficult		
	x12123		
	f3, 2g?		
	x10974		
	Difficult-		
	x10805		
	g3, 1h		
	x10972		
	Diff		

No 86 is difficult to measure especially on x Platis.

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38  
VARIABLES IN M5  
JUNE 14, 1913

NO 87  
MW85  
h2,1l

MW112  
l3,2n

MW108  
l1,3n

MW86  
h2,0l,3n

MW110  
l3,1n

MW84  
h2,1l

MW106  
l1,3n

MW111  
l3,1n

MW107  
l1,3n

MW82  
h1,2l

39		Variables in the fundamental	
NO 87	MW85	h2,1l	
	MW112	l3,2n	
	MW108	l1,3n	
	MW86	h2,0l,3n	
	MW110	l3,1n	
	MW84	h2,1l	
	MW106	l1,3n	
	MW111	l3,1n	
	MW107	l1,3n	
	MW82	h1,2l	

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39  
VARIABLES IN M5  
JUNE 14, 1913

NO87 MW109  
l2,2n

MW105  
l1,3n

X10973  
h2,0l,3n

X10805  
l1,3n

X10974  
l1,3n

X12123  
h1,2l

X10967  
h3,1l

X10806  
l1,3n

X8452  
h2,1l

X10808  
l,2,2n

Mag	Filtering	Variable in the foreground
12.2	l2,2n	NO87 MW109
11.3	l1,3n	MW105
12.0	h2,0l,3n	X10973
11.3	l1,3n	X10805
11.3	l1,3n	X10974
11.2	h1,2l	X12123
13.1	h3,1l	X10967
11.3	l1,3n	X10806
12.1	h2,1l	X8452
1.2	l,2,2n	X10808

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40  
VARIABLES IN M5  
JUNE 14, 1913

NO87 X10452  
h2,1l

X10458  
h3,0l,4n

X8358  
l1,3n

X10460  
h1,2l

X10804  
l2,2n

X8453  
Joopoor

X8467  
g4,1h

X110149  
Joopoor

40	Variables in M5 June 14, 1913		
NO87	h2,1l		
X10452	h3,0l,4n		
X10458	l1,3n		
X8358	h1,2l		
X10460	l2,2n		
X10804	Joopoor		
X8453	g4,1h		
X8467	Joopoor		
X110149			

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MW86  
13, 1n[illegible]

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42  
VARIABLES IN M5  
JUNE 18, 1913

NO88 MW108

MW112  
h1,2l

X8467  
l1,3n

X8453  
Joopoor

X10804  
Joopoor

X10460  
n1,2o

X8358  
h3,2l

X10458  
h3,1l

X10452  
h2,2l

X10808  
h2,1l

Name	Magnitude	Position
NO88	12.00	
MW108	12.00	
MW112	12.00	
X8467	12.00	
X8453	12.00	
X10804	12.00	
X10460	12.00	
X8358	12.00	
X10458	12.00	
X10452	12.00	
X10808	12.00	

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#44  
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43  
 VARIABLES IN M5  
 JUNE 18, 1913

NO88 X8452  
 g3,1h

X10806  
 l3,1n

X10967  
 h1,2l

X12123  
 l3,1n

X10974  
 l3,1n

X10805  
 h2,1l

X10973  
 h2,1l

L10149  
 Joo from in [[?]] of u

Date	Time	Magnitude	Remarks
June 18, 1913	21:00	14.5	NO88 X8452
June 18, 1913	21:05	14.5	X10806
June 18, 1913	21:10	14.5	X10967
June 18, 1913	21:15	14.5	X12123
June 18, 1913	21:20	14.5	X10974
June 18, 1913	21:25	14.5	X10805
June 18, 1913	21:30	14.5	X10973
June 18, 1913	21:35	14.5	L10149
June 18, 1913	21:40	14.5	Joo from in [[?]] of u

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x10458  
n1, 2o

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45  
Variables in M5  
June 15, 1913

No 89

x8358  
Soofrom

x10460  
g1,3h

x10804  
Soofrom

x8453  
g3,1h?

x8467  
L1, 3n

b10149  
Soofrom

MW85  
L3,2n

MW105  
L1,3n

MW109  
n2,10

MW82  
L2, 2n

Variables in M5  
June 15, 1913

Star	Right Ascension	Declination	Magnitude
x8358	16h 40m 00s	+24° 10' 00"	14.5
x10460	16h 40m 00s	+24° 10' 00"	14.5
x10804	16h 40m 00s	+24° 10' 00"	14.5
x8453	16h 40m 00s	+24° 10' 00"	14.5
x8467	16h 40m 00s	+24° 10' 00"	14.5
b10149	16h 40m 00s	+24° 10' 00"	14.5
MW85	16h 40m 00s	+24° 10' 00"	14.5
MW105	16h 40m 00s	+24° 10' 00"	14.5
MW109	16h 40m 00s	+24° 10' 00"	14.5
MW82	16h 40m 00s	+24° 10' 00"	14.5

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46  
Variables in M5  
June 19, 1913

No 89

MW 107  
I3, 1n

MW111  
n2, 10

MW106  
I3, 1n

MW84  
I3, 1n

MW110  
n1, 20

MW86  
I3, 1n

MW108  
I3, 1n

MW112  
n2, 10

46	Variables in M5 June 19, 1913
No 89	
MW 107	I3, 1n
MW111	n2, 10
MW106	I3, 1n
MW84	I3, 1n
MW110	n1, 20
MW86	I3, 1n
MW108	I3, 1n
MW112	n2, 10

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47  
Variables in M5  
June 19, 1913

No 90 MW 112  
h 1, 2 l

MW 108  
g 4, 1 h

MW 86  
g 2, 2 h

MW 110  
g 3, 1 h

MW 84  
n 2, 1 0

MW 106  
n 2, 1 0

MW 111  
g 3, 1 h

MW 107  
n 1, 2 0

MW 82  
n 2, 1 0

MW 109  
g 3, 2 h

47

Variables in M5  
June 19, 1913

No 90	MW 112	h 1, 2 l
	MW 108	g 4, 1 h
	MW 86	g 2, 2 h
	MW 110	g 3, 1 h
	MW 84	n 2, 1 0
	MW 106	n 2, 1 0
	MW 111	g 3, 1 h
	MW 107	n 1, 2 0
	MW 82	n 2, 1 0
	MW 109	g 3, 2 h

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## Variables in M5

June 19, 1913

[[2 column table]]

No go | + 8452 |

| of 2, 3 g |

| +10800 |

| of 2, 3 g |

| +10967 |

| Too hour in r. of v. |

| +12123 |

| 3, i n |

| +10974 |

| Too hour in r. of v. |

| +10805 |

| g [strikeout] 3, 2 g ? |

| +10973 |

| h 1, 2 l |

| MW 109 |

| a 2, 3 b |

| MW 105 |

| 1, 2 e |

| MW 107 |

| b 1, 2 c |

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Variables in M5

Date	June 19, 1913		
	+ 8452		
	of 2, 3 g		
	+10800		
	of 2, 3 g		
	+10967		
	Too hour in r. of v.		
	+12123		
	3, i n		
	+10974		
	Too hour in r. of v.		
	+10805		
	g [strikeout] 3, 2 g ?		
	+10973		
	h 1, 2 l		
	MW 109		
	a 2, 3 b		
	MW 105		
	1, 2 e		
	MW 107		
	b 1, 2 c		

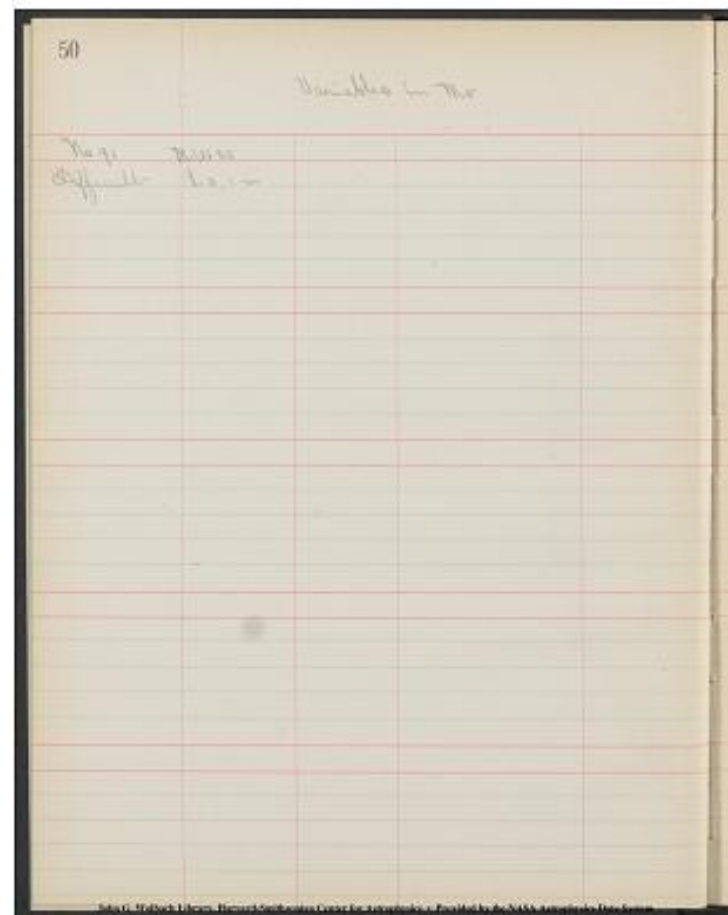
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50  
Variables in M5

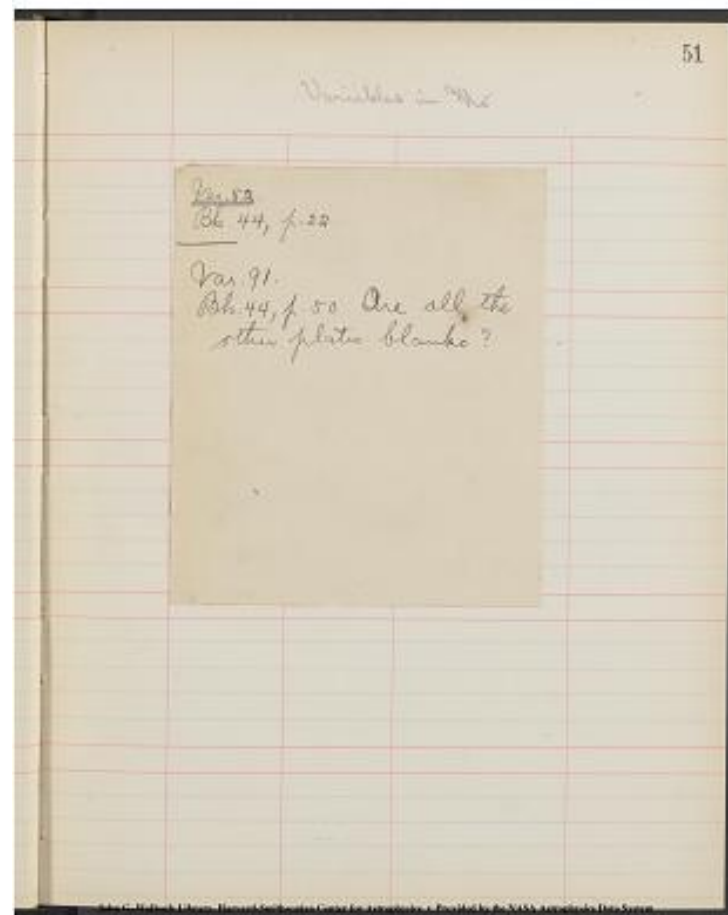
No 91 MW 85  
Difficult 13, 1n



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Var. 82  
Bb. 44, f.22

Var. 91  
Bb. 44, f.50 Are all the other plates blanks?



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Variables in M5

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Variables in M5

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Variables in Ms  
June 20, 1913

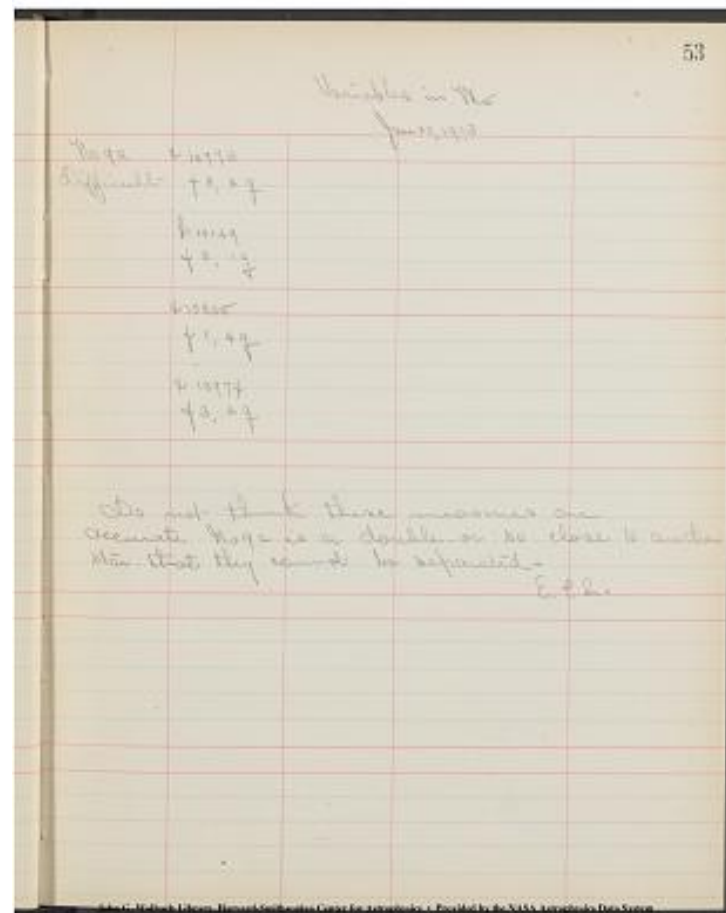
No 92 x10973  
Difficult- +3, 2g

b10149  
+3, 1g

x10805  
+1, 4g

x10974  
+3, 2g

Do not think these measures are accurate. n092 is a double-on so close to another star. that they cannot be seperated.- E.F.L



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Variables in M5  
June 20, 1913  
No 64

x10458  
h2, il

x8358  
h2, il

x10460  
f4, 2g

x8453  
g3, 2h

x8467  
f4, 2g

x10452  
f4, 2g

x10808  
f3, 2g

x8452  
f4, 2g

x10806  
g3, ih

Time	Filter	Remarks
10:45	h2, il	
8:35	h2, il	
10:46	f4, 2g	
8:45	g3, 2h	
8:46	f4, 2g	
10:45	f4, 2g	
10:80	f3, 2g	
8:45	f4, 2g	
10:80	g3, ih	

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No 64 comes mean the edge on MW Platio is dis solid and not comparable with stairs in sequence.

55

Variables in the  
form  $x, y, z$

Row 7	$z = 100$		
	$7x = 7$		
	$z = 100$		
	$7x = 7$		
	$z = 100$		
	$7x = 7$		
	$z = 100$		
	$7x = 7$		
	$z = 100$		
	$7x = 7$		

Row 7 comes from the edge on this plate. is distorted and not compatible with plate in sequence.

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Variables in M5  
June 20, 1913 (marked on 4 7601)

No72 410973  
l3, 272

410805  
l3, [?], 30

410974  
l2, 1[?]

412123  
l1, 2l

410964  
h2, 1l

410806  
l1, 3n

48452  
l3, 2n

410808  
g3, 2h

410452  
hg2, 3h

48467  
h1, 2l

56

Variables in M5  
June 20, 1913 (marked on 4 7601)

Time	Object	Position	Remarks
10:15	l3, 272		
10:20	l3, 272		
10:25	l3, 272		
10:30	l3, 272		
10:35	l3, 272		
10:40	l3, 272		
10:45	l3, 272		
10:50	l3, 272		
10:55	l3, 272		
11:00	l3, 272		
11:05	l3, 272		
11:10	l3, 272		
11:15	l3, 272		
11:20	l3, 272		
11:25	l3, 272		
11:30	l3, 272		
11:35	l3, 272		
11:40	l3, 272		
11:45	l3, 272		
11:50	l3, 272		
11:55	l3, 272		
12:00	l3, 272		
12:05	l3, 272		
12:10	l3, 272		
12:15	l3, 272		
12:20	l3, 272		
12:25	l3, 272		
12:30	l3, 272		
12:35	l3, 272		
12:40	l3, 272		
12:45	l3, 272		
12:50	l3, 272		
12:55	l3, 272		
13:00	l3, 272		
13:05	l3, 272		
13:10	l3, 272		
13:15	l3, 272		
13:20	l3, 272		
13:25	l3, 272		
13:30	l3, 272		
13:35	l3, 272		
13:40	l3, 272		
13:45	l3, 272		
13:50	l3, 272		
13:55	l3, 272		
14:00	l3, 272		
14:05	l3, 272		
14:10	l3, 272		
14:15	l3, 272		
14:20	l3, 272		
14:25	l3, 272		
14:30	l3, 272		
14:35	l3, 272		
14:40	l3, 272		
14:45	l3, 272		
14:50	l3, 272		
14:55	l3, 272		
15:00	l3, 272		
15:05	l3, 272		
15:10	l3, 272		
15:15	l3, 272		
15:20	l3, 272		
15:25	l3, 272		
15:30	l3, 272		
15:35	l3, 272		
15:40	l3, 272		
15:45	l3, 272		
15:50	l3, 272		
15:55	l3, 272		
16:00	l3, 272		
16:05	l3, 272		
16:10	l3, 272		
16:15	l3, 272		
16:20	l3, 272		
16:25	l3, 272		
16:30	l3, 272		
16:35	l3, 272		
16:40	l3, 272		
16:45	l3, 272		
16:50	l3, 272		
16:55	l3, 272		
17:00	l3, 272		
17:05	l3, 272		
17:10	l3, 272		
17:15	l3, 272		
17:20	l3, 272		
17:25	l3, 272		
17:30	l3, 272		
17:35	l3, 272		
17:40	l3, 272		
17:45	l3, 272		
17:50	l3, 272		
17:55	l3, 272		
18:00	l3, 272		
18:05	l3, 272		
18:10	l3, 272		
18:15	l3, 272		
18:20	l3, 272		
18:25	l3, 272		
18:30	l3, 272		
18:35	l3, 272		
18:40	l3, 272		
18:45	l3, 272		
18:50	l3, 272		
18:55	l3, 272		
19:00	l3, 272		
19:05	l3, 272		
19:10	l3, 272		
19:15	l3, 272		
19:20	l3, 272		
19:25	l3, 272		
19:30	l3, 272		
19:35	l3, 272		
19:40	l3, 272		
19:45	l3, 272		
19:50	l3, 272		
19:55	l3, 272		
20:00	l3, 272		
20:05	l3, 272		
20:10	l3, 272		
20:15	l3, 272		
20:20	l3, 272		
20:25	l3, 272		
20:30	l3, 272		
20:35	l3, 272		
20:40	l3, 272		
20:45	l3, 272		
20:50	l3, 272		
20:55	l3, 272		
21:00	l3, 272		
21:05	l3, 272		
21:10	l3, 272		
21:15	l3, 272		
21:20	l3, 272		
21:25	l3, 272		
21:30	l3, 272		
21:35	l3, 272		
21:40	l3, 272		
21:45	l3, 272		
21:50	l3, 272		
21:55	l3, 272		
22:00	l3, 272		
22:05	l3, 272		
22:10	l3, 272		
22:15	l3, 272		
22:20	l3, 272		
22:25	l3, 272		
22:30	l3, 272		
22:35	l3, 272		
22:40	l3, 272		
22:45	l3, 272		
22:50	l3, 272		
22:55	l3, 272		
23:00	l3, 272		
23:05	l3, 272		
23:10	l3, 272		
23:15	l3, 272		
23:20	l3, 272		
23:25	l3, 272		
23:30	l3, 272		
23:35	l3, 272		
23:40	l3, 272		
23:45	l3, 272		
23:50	l3, 272		
23:55	l3, 272		
24:00	l3, 272		

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Variables in M5  
June 23, 1913

No72 X8453

L3, 1n  
X10804  
q3, 1n  
X10460  
L3,on,30  
X8358  
q3,2h  
X10458  
L3, 2n  
L1014q  
q2, 3h  
Mw105  
q3, 1h

		Variables in the function		
Page	Notes			
	ba, n			
	Paving			
	qs, h			
	Roads			
	bs, cm, as			
	Cross			
	qs, h			
	Sizes			
	bs, n			
	Burying			
	qs, h			
	Mining			
	qs, h			
	Mining			
	qs, h			
	Mining			
	qs, h			
	Mining			
	qs, h			

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#44

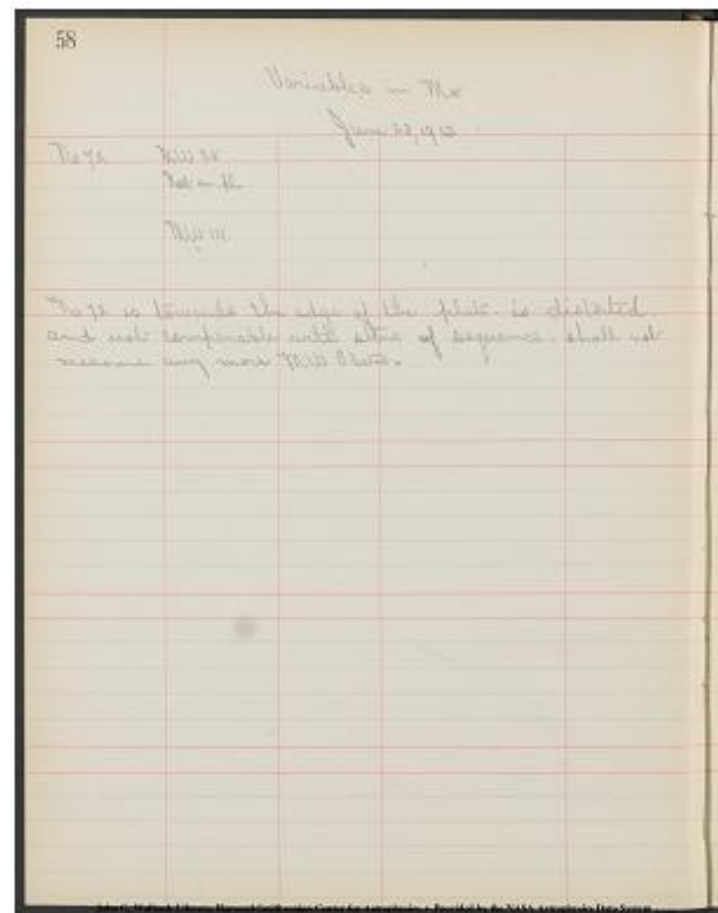
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Variables in []  
June 23, 1913

No 72 MW85  
Not on hl  
MW 111  
?

No 12 is towards the edge of the plate. is distorted and not comparable with [?] of sequence. shall not measure any more MW plates.



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#44  
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Variables in M5  
June 25, 1913

x10458  
l2,3n

k8358  
f3, 1g

k10460  
n1, 20

k10804  
g3, 1h

k8453  
g3, 2h

k8467  
l1, 3n

k10452  
l3, 1n

k10808  
h3, 1l

k8452  
o1, n?

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Variable - The  
June 26, 1912

Page	June 26		
	h, 2 h		
	June 27		
	h, 2 h		
	June 28		
	h, 2 h		
	June 29		
	h, 2 h		
	June 30		
	h, 2 h		
	June 31		
	h, 2 h		
	June 32		
	h, 2 h		
	June 33		
	h, 2 h		
	June 34		
	h, 2 h		
	June 35		
	h, 2 h		
	June 36		
	h, 2 h		
	June 37		
	h, 2 h		
	June 38		
	h, 2 h		
	June 39		
	h, 2 h		
	June 40		
	h, 2 h		
	June 41		
	h, 2 h		
	June 42		
	h, 2 h		
	June 43		
	h, 2 h		
	June 44		
	h, 2 h		
	June 45		
	h, 2 h		
	June 46		
	h, 2 h		
	June 47		
	h, 2 h		
	June 48		
	h, 2 h		
	June 49		
	h, 2 h		
	June 50		
	h, 2 h		
	June 51		
	h, 2 h		
	June 52		
	h, 2 h		
	June 53		
	h, 2 h		
	June 54		
	h, 2 h		
	June 55		
	h, 2 h		
	June 56		
	h, 2 h		
	June 57		
	h, 2 h		
	June 58		
	h, 2 h		
	June 59		
	h, 2 h		
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	June 62		
	h, 2 h		
	June 63		
	h, 2 h		
	June 64		
	h, 2 h		
	June 65		
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	June 66		
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	June 68		
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	June 70		
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	June 71		
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	June 72		
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	June 74		
	h, 2 h		
	June 75		
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	June 76		
	h, 2 h		
	June 77		
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	June 78		
	h, 2 h		
	June 79		
	h, 2 h		
	June 80		
	h, 2 h		
	June 81		
	h, 2 h		
	June 82		
	h, 2 h		
	June 83		
	h, 2 h		
	June 84		
	h, 2 h		
	June 85		
	h, 2 h		
	June 86		
	h, 2 h		
	June 87		
	h, 2 h		

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Variables in M5  
June 25, 1913

N0Y1 x10805  
g3, 2h

x10806  
h2, 1l

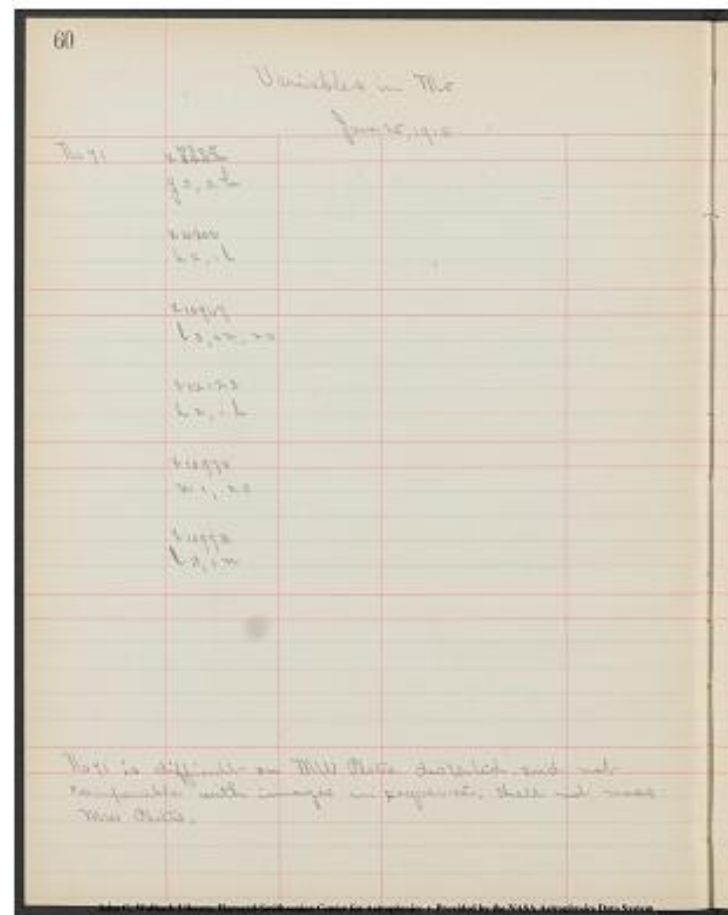
x10967  
l3, 0n, 2o

x12123  
L2, 1l

x10974  
n1, 2o

x10973  
l3, 1u

N0y1 is difficult MW Plalis. disliked and not comfortable with images in sequence. shall and meas MW Plalis.



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N070 Variables in M5  
x10973  
l3, 1u

x12123  
l2, 3u

x10974  
u1, 2o

x10976  
n1, 2o

x10806  
l3, 1u

x8452  
g3, 1h

x10805  
l3, 1h

x10808  
f3, 1g

x10452  
n1, 2o

x8467  
l3, 1u

Variables in the series		61
l3, 1u	x10973	
l2, 3u	x12123	
u1, 2o	x10974	
n1, 2o	x10976	
l3, 1u	x10806	
g3, 1h	x8452	
l3, 1h	x10805	
f3, 1g	x10808	
n1, 2o	x10452	
l3, 1u	x8467	

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Variables in M5  
June 25, 1913

N07o x8453  
g3, 2h

x10804  
f3, 0g, 3h

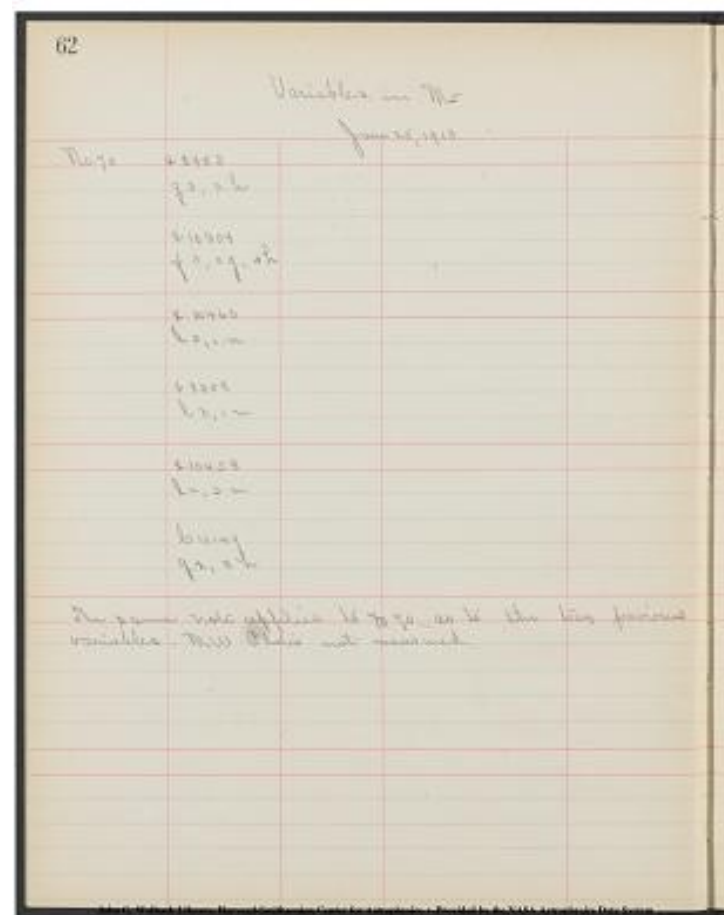
x10460  
l3, 1u

x8358  
l3, 1u

x10458  
l2, 3u

l10149  
g2, 3h

The same note applies to yo yo as to the lives previous variables. MW  
Plais not measured.



Project PHaEDRA - Evelyn F. Leland - Series Reductions and M5 variables  
#44  
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Variables in M5  
June 25, 1913  
No69 b10149  
g2, 2h

x10458  
h1, 2l

x8358  
h2, 1l

x10460  
f4, 2g

x10804  
g3, 1h

x8453  
nfi

x10452  
h3, 1l

x10808  
g3, 1h

x10805  
f2, 3g

x8452  
n, h

Day	Time	Variable in M5
1	10:45	h1, 2l
1	8:35	h2, 1l
1	10:46	f4, 2g
1	10:80	g3, 1h
1	8:45	nfi
1	10:45	h3, 1l
1	10:80	g3, 1h
1	10:80	f2, 3g
1	8:45	n, h
1	10:45	h1, 2l

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Variable in M5  
June 25, 1913  
No 69 x10806  
g3, 2h

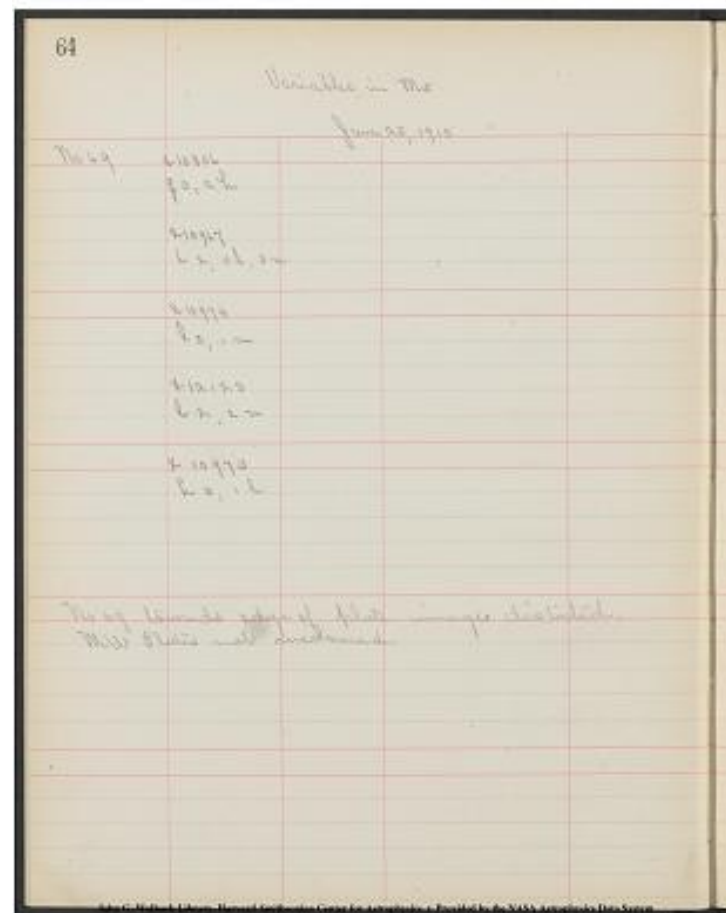
x10967  
h2, 0l, 3n

x10974  
l3, 1n

x12123  
l2, 2u

x10973  
h3, 1l

No 69 lowards edge of plate. images disilined.  
MW Plais not measured.



Project PHaEDRA - Evelyn F. Leland - Series Reductions and M5 variables  
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Variable in MO

Oct 30, 1913

n062 mw 105

p3, 1h

mw 82

L3, 1n

mw107

L1,3n

mw111

h1,2L

mw 106

L2, 2n

mw84

q3,oh,2l

mw 110

q3,1h

mw86

q2,1h

mw 108

q3,1h

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Variable in MO		65
Oct 30, 1913		
Time	Time in	Time out
	6:50	
	7:00	
	7:10	
	7:20	
	7:30	
	7:40	
	7:50	
	8:00	
	8:10	
	8:20	
	8:30	

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x8452  
[?]

66			
		He	
		Odessa	
June	June		
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mw 105  
d1,2l

[illegible]

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[68]

Comparisons m5  
made with special  
seg. near var.  
a b c d te in red  
[?] k [?] m0 B-s chart Nov 13, 1913  
n062

410806  
a 1, 3 b  
48452  
c2, 1d  
x10458  
a4, 1b  
x8453

Region poor b1, 2c ?

x10452  
a3, 2b

x10808  
b3, 0e, 1d

x10805  
a3, 1b

x10460  
c2, 1d

x10804  
a2, 1b

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Astrophysics [?] Provided by the NASA Astrophysics Data System.

68

410806  
48452  
x10458  
x8453  
x10452  
x10808  
x10805  
x10460  
x10804

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69

M5

No 13, 1913

No62

[psi] 8467  
a3, 2b

[psi] 10974  
b2, 1c

[psi] 10967  
c1, 2d

[psi] 10973  
d1, 3e

[psi] 12123  
a3, 2b

[psi] 8754  
Reg. poor d1, 2e?

[psi] 10149  
a3, 1b

MW 109  
a2, 3b

MW 105  
d1, 2e

MW 107  
b1, 2e

69

M5	
10974	b2, 1c
10967	c1, 2d
10973	d1, 3e
12123	a3, 2b
8754	Reg. poor d1, 2e?
10149	a3, 1b
MW 109	a2, 3b
MW 105	d1, 2e
MW 107	b1, 2e

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#44  
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MW 112  
a3, 1b

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71

M5

[[star diagram]]

Nov 13, 1913

[[2 column]]

No62 | MW 112 |

| g3 a' |  
| a'2 h |

104 20 | [psi] 6637 |

[[left margin]] No62 cont, on early plates - Dec 10, 1913 [[left margin]]

| d'2, 1e' |

| [psi] 6784 |  
| a'1, 3b' |

| [psi] 6785 |  
| a'2, 3b' |

| [psi] 6817 |  
| a~~2~~ 2, 3f |

Poor Plate. | [psi] 6817

WS meas? | a'3, 2b | [[right margin]] dov Remeasured Sept 16,  
1915 [[right margin]]

| [psi] 6829 |  
| a'1, 3b' |

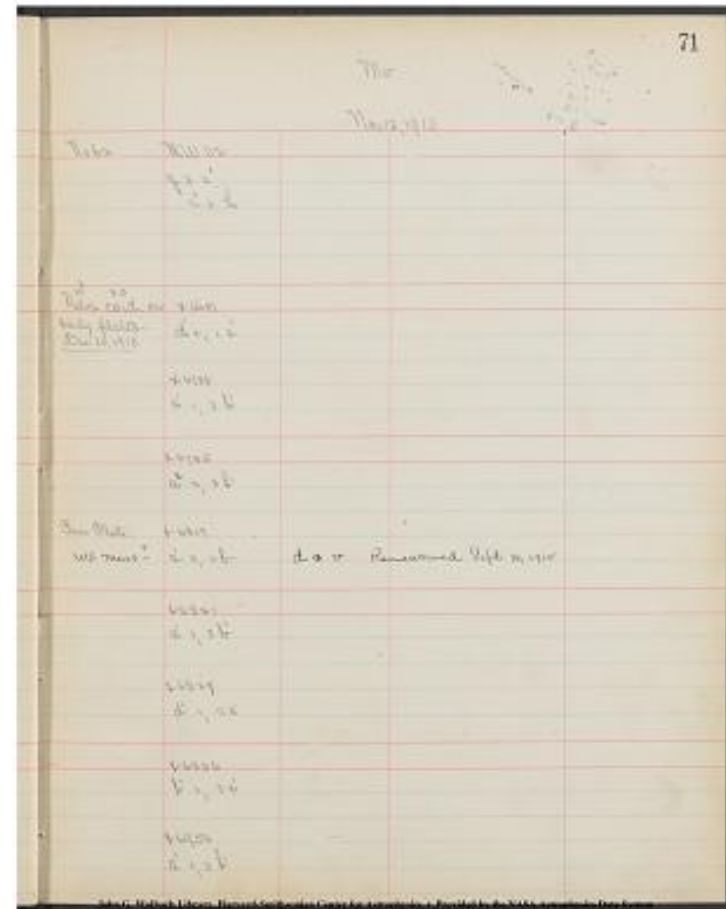
| [psi] 6836 |  
| d'1, 2e' |

| [psi] 6956 |  
| b'1, |

| 3 e' |

| [psi] 6956 |  
| a'1, 3b' |

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72

M5

Dec 10, 1913

[[2 column table]]

No 62 |

x6838 |  
d' 3, 1 e' |

x6877 |  
b' 1, 3 c'? |

x6786 |  
b' 3, 1 e' |

x6805 |  
a' 2, 3b' |

Pour in region | X6806. |  
of var. | a' 2, 3b' ? |

X6814 |  
a' 2, 3 b' |

X6958 |  
c' 2, 1 d' |

x6960 |  
b' 1, 2c' |

46815 |  
b' 2, 1 c' |

4 6974 |  
a' 3, 1 b' |

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Date	Star	Magnitude	Position
Dec 10, 1913	x6838	d' 3, 1 e'	
	x6877	b' 1, 3 c'?	
	x6786	b' 3, 1 e'	
	x6805	a' 2, 3b'	
	X6814	a' 2, 3 b'	
	X6958	c' 2, 1 d'	
	x6960	b' 1, 2c'	
	46815	b' 2, 1 c'	
	4 6974	a' 3, 1 b'	

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#44

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73

M5

Dec 10, 1913  
No 62  
x6981  
a1 3, 0b1, 3c1

x6991  
b1 1, 3c1

x7008  
b1 2, 2c1

x7010  
a1 2, 3 b1

x7018  
a1 0, 5 b1

x7036  
a1 b1

x7043  
a1 2, 4 b1

x7499  
a1 1, 4 b1

x7469  
a1 1, 3 b1

x7038  
a1 2, 3 b1

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73

Dec 10, 1913

Time	Star		
2.44	b1, 2b		
2.49	b1, 2b		
2.50	b1, 2b		
2.51	b1, 2b		
2.52	b1, 2b		
2.53	b1, 2b		
2.54	b1, 2b		
2.55	b1, 2b		
2.56	b1, 2b		
2.57	b1, 2b		

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[74]

n062 m5  
Dec 10, 1913

x7601  
a1 3,2 b1

x7603  
b1 1, 3c1

x7661  
a1 3,2b1

x7789  
a1 2, 3b1

x8515  
b1 3,1c1

x8538  
Doubtful about a1 3, 2b1 ?  
estimate= hazy

x8540  
a1 3,1 b1

x8542  
b1 3,1 c1

x8544  
a1 1, 3b1

x8556  
d1, 3e1

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74

The Deneb

Date			
x7601	a1, 3, b1		
x7602	b1, 2c		
x7661	a1, 3, b1		
x7789	a1, 2, b1		
x8515	b1, 3, c1		
x8538	a1, 3, 2b1 ?		
x8540	a1, 3, 1 b1		
x8542	b1, 3, 1 c1		
x8544	a1, 1, 3b1		
x8556	d1, 3e1		

Small text at bottom: 1913-1914, Harvard-Smithsonian Center for Astrophysics, Provided by the NASA Astrophysics Data System

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#44  
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No 62  
1 30 M5  
Dec 10, 1913  
x8599  
a1 2, 3 b1

x8790  
a1 1, 4b1

x9159  
a1 a, 3 b1

x9501  
Images Hazy b1 1, 3 c1

x9790  
a1 3, 2 b1

x9859  
a1 1, 4 b1

x9940  
a1 3, 2 b1

x10249  
c1 2, 1 d1

x10253  
d1 1, 2 e1 ?

x10256  
a1 2, 3 b1  
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Time	M5	Remarks
10:00	10:00	10:00
10:05	10:05	10:05
10:10	10:10	10:10
10:15	10:15	10:15
10:20	10:20	10:20
10:25	10:25	10:25
10:30	10:30	10:30
10:35	10:35	10:35
10:40	10:40	10:40
10:45	10:45	10:45
10:50	10:50	10:50
10:55	10:55	10:55
11:00	11:00	11:00
11:05	11:05	11:05
11:10	11:10	11:10
11:15	11:15	11:15
11:20	11:20	11:20
11:25	11:25	11:25
11:30	11:30	11:30
11:35	11:35	11:35
11:40	11:40	11:40
11:45	11:45	11:45
11:50	11:50	11:50
11:55	11:55	11:55
12:00	12:00	12:00

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#44  
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77

M5

Dec 10, 1918  
No 62  
x10257 x8657  
a1 2, 3 b1 a1 3, 2 b1

a 1781 x700  
Too far in reg of var. b1 1, 3 c1

a 1782 a 1791  
c1 1, 2 d1 a1 3, 2 b1

a 1784 1. 55  
b1 1, 3 c1

a 1785  
a1 2, 4 b1

Pour Plate a 1788  
b1 2, 1 c1 ?

a 1786  
a1 2, 3 b1

a 1787  
a1 2, 3 b1

a 1789  
b1 peratched a1 3,0 b1, 3c1 ?

a 1790  
a1 2, 3 b1

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	Time	Amplitude	Phase	Period	Remarks
Dec 10, 1918	10:00	1.5	0.0	0.0	
No 62	10:05	1.5	0.0	0.0	
x10257 x8657	10:10	1.5	0.0	0.0	
a1 2, 3 b1 a1 3, 2 b1	10:15	1.5	0.0	0.0	
a 1781 x700	10:20	1.5	0.0	0.0	
Too far in reg of var. b1 1, 3 c1	10:25	1.5	0.0	0.0	
a 1782 a 1791	10:30	1.5	0.0	0.0	
c1 1, 2 d1 a1 3, 2 b1	10:35	1.5	0.0	0.0	
a 1784 1. 55	10:40	1.5	0.0	0.0	
b1 1, 3 c1	10:45	1.5	0.0	0.0	
a 1785	10:50	1.5	0.0	0.0	
a1 2, 4 b1	10:55	1.5	0.0	0.0	
Pour Plate a 1788	11:00	1.5	0.0	0.0	
b1 2, 1 c1 ?	11:05	1.5	0.0	0.0	
a 1786	11:10	1.5	0.0	0.0	
a1 2, 3 b1	11:15	1.5	0.0	0.0	
a 1787	11:20	1.5	0.0	0.0	
a1 2, 3 b1	11:25	1.5	0.0	0.0	
a 1789	11:30	1.5	0.0	0.0	
b1 peratched a1 3,0 b1, 3c1 ?	11:35	1.5	0.0	0.0	
a 1790	11:40	1.5	0.0	0.0	
a1 2, 3 b1	11:45	1.5	0.0	0.0	

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78 m5  
[[Strikethrough]]  
No62  
| a1791  
1 55| a1 3, 2 b1  
[[Strikethrough]]

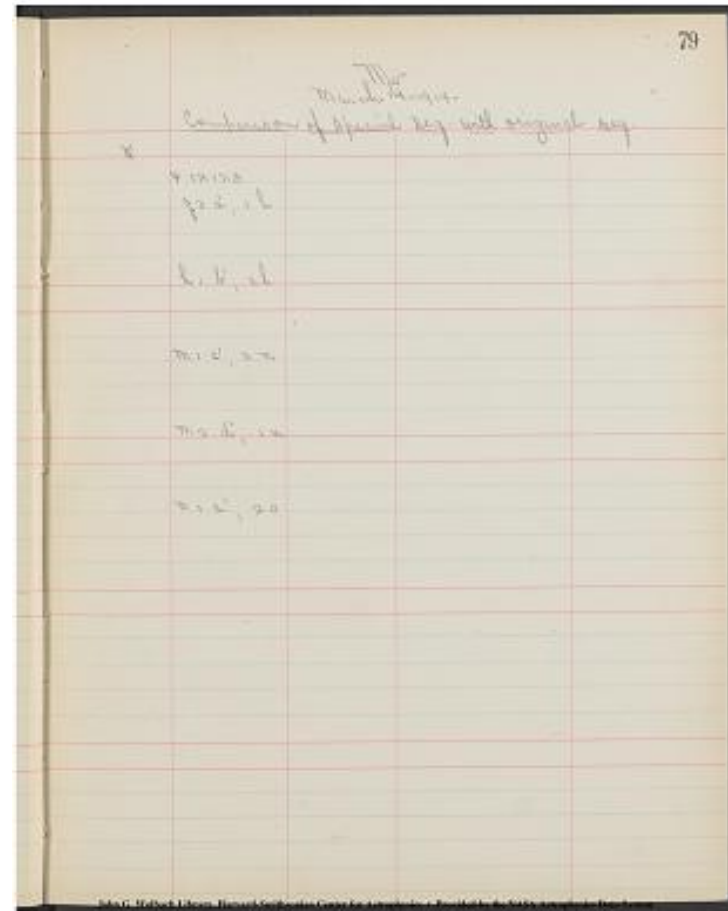


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79  
M5  
March 14-1914-  
Comparison of special seq. with original seq.

[[?]]<sup>1</sup>  
Ps 12123  
g3a<sup>1</sup>

412123  
g3a, l h  
h, b, xl  
m, c', x, n  
m, a d', in



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#44  
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80

M5  
Comparison of special seq with original seq  
March 16, 1914

46981

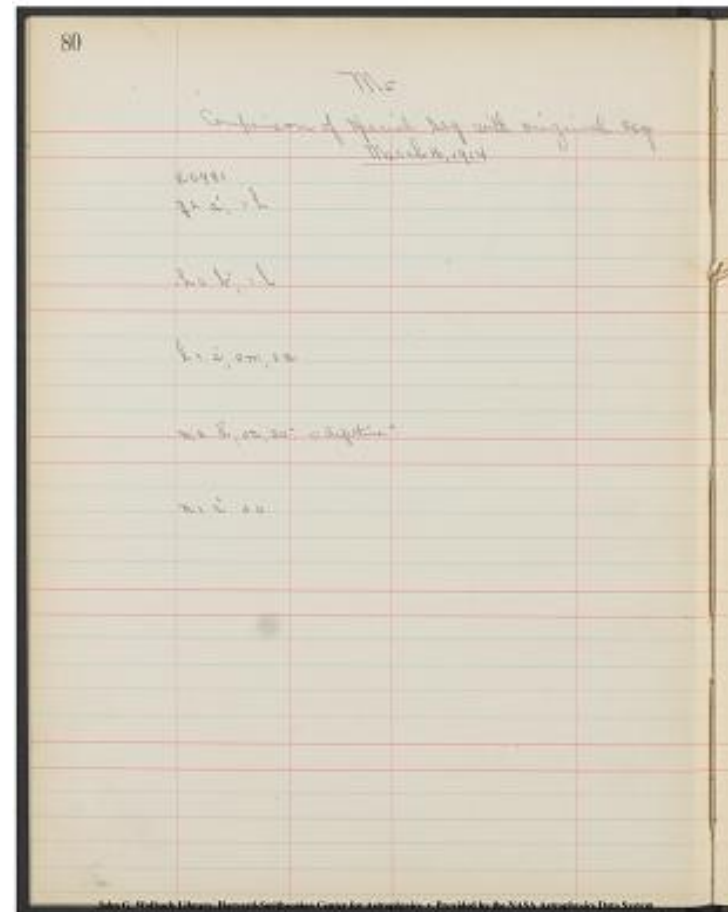
g2a: 1h

h2b: 1l

l1c: 0m, 2n

m2d: 0n, 20: 0 defective?

n1 i 30



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81

M5  
March 21, 1914

8?  
a1823  
d1:2e1

a1829  
a12,3b

a1825  
a1 3, 2b1

a1809  
d1 1, 2e1

a1812  
a1 3, 0f1, 2c1

a1756  
a1 3, 1b1

1823	M5	1823	M5	1823
1829	March 21, 1914	1829	March 21, 1914	1829
1825	8?	1825	8?	1825
1809	a1823	1809	a1823	1809
1812	d1:2e1	1812	d1:2e1	1812
1756	a1829	1756	a1829	1756
	a12,3b		a12,3b	
	a1825		a1825	
	a1 3, 2b1		a1 3, 2b1	
	a1809		a1809	
	d1 1, 2e1		d1 1, 2e1	
	a1812		a1812	
	a1 3, 0f1, 2c1		a1 3, 0f1, 2c1	
	a1756		a1756	
	a1 3, 1b1		a1 3, 1b1	

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82

M5

SC R Sequence of Comb. DIs

H 832 June 2, 1914

[[3 column table]]

a	Sc1	Sc2	5.2	5.5
b	7.0	6.8	7.20	
c	8.2	8.5		
d	9.1	9.3	9.3	9.33
e	10.2	10.1	10.15	
t	10.9	11.0	10.95	
g	11.3	11.5	11.40	
h	11.9	12.1	12.00	
i	12.5	12.5	12.50	
m	12.7	12.7	12.70	
n	13.1	13.1	13.10	
o	13.5	13.7	13.60	
h	13.9	13.8	13.85	
q	3	..		

I am aqes of paint- wlo lo close I, measure with accmacy.

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83

M5

Sc R June 2, 1914

H 831 Pole

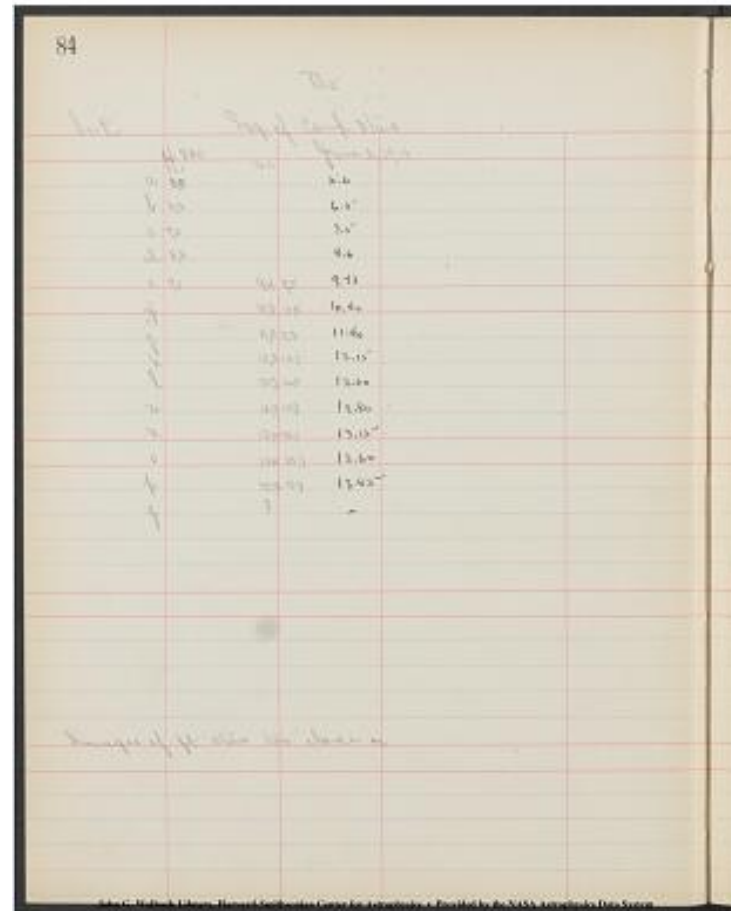
[[3 column table]]

	Sc1	Sc2	
10	3.0	3.3	
11	..		
12	..		
13	<del>4.2</del>   ..		
14	5.0	5.3	
15	5.3	5.6	
16	5.7	6.0	
17	5.9	6.2	
18	6.3	6.6	
19	7.1	7.4	
20	8.1	8.4	
23	9.0	9.3	9.2 9.27
25	10.1	10.2	10.15
26	11.1	11.1	11.10
27	11.9	11.7	11.80
28	12.7	12.5	12.60
29	13.3	13.2	13.20
30	13.7	13.5	13.60
31	13.9	13.9	13.90
32	F	~	
33			
	{stain}		

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m5  
 [[?]] | [[?]] of [[?]]  
 [[?]] 830 June 2, 1914  
 | Sc1 | Sc2 |  
 a| 5.3 | 5.6  
 b| 6.2 | 6.5  
 c| 7.2 | 7.5  
 d| 8.3 | 8.6  
 e| 9.1 | 9.4 | 9.5 | 9.43  
 f| 10.3 | 10.5 | 10.40  
 g| 11.5 | 11.3 | 11.40  
 h| 12.2 | 12.1 | 12.15  
 i| 12.7 | 12.5 | 12.60  
 m| 12.9 | 12.7 | 12.80  
 n| 13.2 | 13.1 | 13.15  
 o| 13.5 | 13.7 | 13.60  
 h| 13.8 | 13.9 | 13.85  
 q| q



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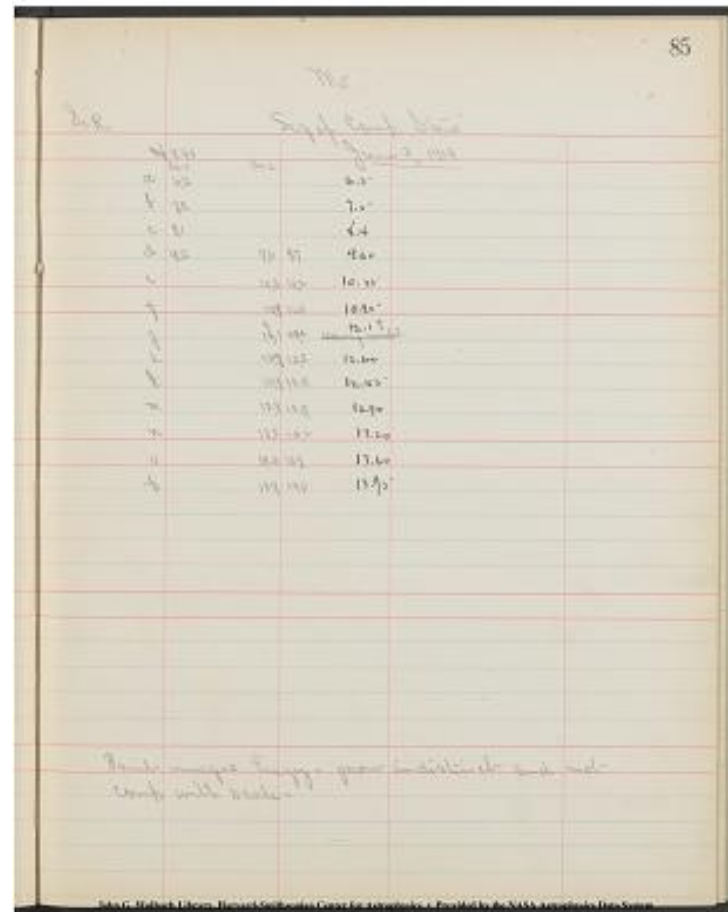
85  
M5

SeR            Seg of Cowh Slas(??)  
                June 3, 1914

H 840	
sec 1	sec 2
a 6.2	6.5
b 7.2	7.5
c 8.1	8.4
d 9.2	9.6 9.7 9.60
e	10.3 10.2 10.25
f	10.9 11.0 10.95
g	18.1 12.1 12.1?
h	12.9 12.5 12.60
i	12.9 12.8 12.85
m	12.9 12.9 12.90
n	13.2 13.2 13.20
u	13.5 13.7 13.60
h	13.9 14.0 13.95

faint images happy - grow indistinct and not cowh(??) with(??)  
Deale(??)

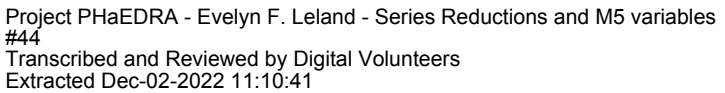
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Images from

Images from



87

BeR M5

Seg of (??)

H842            June 3, 1914  
sel            se2  
a 6.2            6.5  
b 7.1            7.4  
c 8.0            8.3  
d 9.1            9.4 9.3 9.37  
e            10.4 10.1 10.25  
f            10.7 10.9 10.80  
g            w.s //strike//12.0 //strike// 11.2 11.2  
h            12.0 11.9 11.95 -  
i            12.3 12.1 12.20  
m            12.3 12.3 12.30  
n            12.7 12.9 12.80  
u            13.2 13.3 13.25  
h            13.7 13.9 13.80

87

H842            June 3, 1914

sel            se2

a 6.2            6.5

b 7.1            7.4

c 8.0            8.3

d 9.1            9.4 9.3 9.37

e            10.4 10.1 10.25

f            10.7 10.9 10.80

g            w.s //strike//12.0 //strike// 11.2 11.2

h            12.0 11.9 11.95 -

i            12.3 12.1 12.20

m            12.3 12.3 12.30

n            12.7 12.9 12.80

u            13.2 13.3 13.25

h            13.7 13.9 13.80

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88

Sept 25, 1914

M5 (Estimations of grades)

|x8467|

|a5b|

|b10e|

|ebd|

|d4e|

|lbf|

|f4g|

|g4h|

|hol|

|l3n|

|n3u|

|u2h|

|f3g|

Intervals between a&b, b&c very large - estimate uncertain

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a5b				
b10e				
ebd				
d4e				
lbf				
f4g				
g4h				
hol				
l3n				
n3u				
u2h				
f3g				

Intervals between a&b, b&c very large - estimate uncertain

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89

Sept 26, 1914  
M5. Estimates of grades.

| | x9916 |  
| | a 3 b |

| | b 10 c |

| | c 8 d |

| | d 5 e |

| | e 5 f |

| | f 6 g |

| | g 3 h |

| | h 4 i |

| | i 2 m |

| | m 3 n |

| | n 2 u |

| | u 3 p |

| | p 3 q |

Intervals large - uncertain

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x	y	z	u	v	w	p	q	r	s	t	u	v	w	p	q	r	s	t
x9916																		
a 3 b																		
b 10 c																		
c 8 d																		
d 5 e																		
e 5 f																		
f 6 g																		
g 3 h																		
h 4 i																		
i 2 m																		
m 3 n																		
n 2 u																		
u 3 p																		
p 3 q																		

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90

Sept 28, 1914  
M5. Estimates of grades

49593  
a5b

b10+c

c8d

d4e

e4f

f ~~6~~ 5 g

g4h

h3l

l2m

m4n

n3o

o3p

p3q

intervals large - estimates difficult

M5	Grades
49593	a5b
	b10+c
	c8d
	d4e
	e4f
	f 6 5 g
	g4h
	h3l
	l2m
	m4n
	n3o
	o3p
	p3q

intervals large - estimates difficult

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#44  
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91

M5. Estimates of grades  
MW 109

a ? b

b 6? c

c 5 d

d 4 e

e 4 f

f 3 g

~~h~~ h ~~g~~ g 4 h

h 4 i

i 0 m

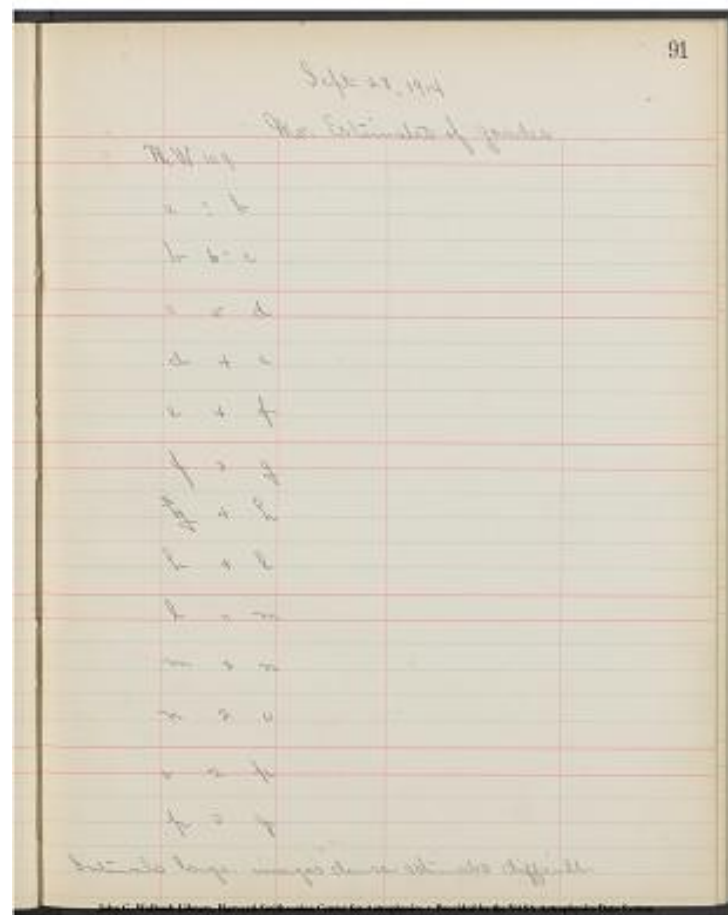
m 3 n

n 2 o

o 2 p

p 3 q

Intervals large. images dense. estimates difficult



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#44  
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92

Sept 30, 1914  
M5. Estimates of grades.

48790

a 4 b

b 6 e

c 10 d

d 5 e

e 5 f

f 4 g

g 3 h

h 4 i

i 1 m

m 4 n

n 3 o

o 3 p

p 5 q

Intervals large \_ estimates difficult

92

Sept 30, 1914

M5. Estimates of grades.

48790				
a 4 b				
b 6 e				
c 10 d				
d 5 e				
e 5 f				
f 4 g				
g 3 h				
h 4 i				
i 1 m				
m 4 n				
n 3 o				
o 3 p				
p 5 q				

Intervals large \_ estimates difficult

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Oct 22, 1914  
 Estimates of grades for seg. of M3  
 12 X 9204 H 877

a	1	b	a	2	b
b	2	c	b	1	c
c	3	c	c	3	c
c	2	d	c	1	d
d	5	e	d	5	e
e	3	f	e	2	f
f	3	g	f	2	g
g	4	h	g	3	h
h	1	h	h	0	h
h	1	k	h	1	k
w.s taken for K	k	1	k	k	0
k	0		k	0	
	4			2	
	2	m		3	m
"m" pec shape	m	1		m	1
	0	n		2	n
n	3	m	n	2	m
m	2	n	m	2	n
		m	2	n	

Oct 22, 1914

Estimates of grades for seg. of M3

12 X 9204	H 877
a 1 b a 2 b	b 2 c b 1 c
c 3 c c 3 c	c 2 d c 1 d
d 5 e d 5 e	e 3 f e 2 f
f 3 g f 2 g	g 4 h g 3 h
h 1 h h 0 h	h 1 k h 1 k
w.s taken for K k 1 k k 0 k	k 0  k 0
4   2	2 m  3 m
"m" pec shape m 1  m 1	0 n  2 n
n 3 m n 2 m	m 2 n m 2 n
m 2 n	

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94

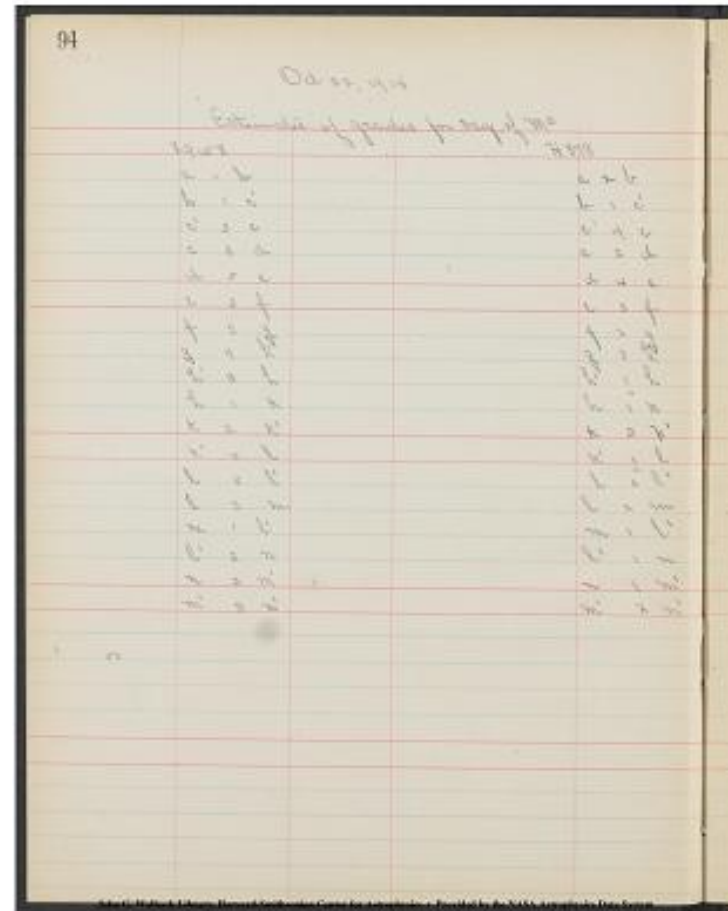
Oct 22, 1914

Estimates of grades for peak of M3

x9158	H878
a 1 b	a 2 b
b 1 c'	b 1 c'
c' 3 c	c' 4 c
c 3 d	c 2 d
d 5 e	d 4 e
e 3 f	e 3 f
f 2 g	f 2 g
g 4 h'	g 3 h
h' 0 h	h' 1 h
h 1 k	h 1' k
k 2 k'	k 2 k'
k' 0 l	k' 1 l
l 5 l'	l 3' l'
l 2 m	l 2 m
m 1 l'	m 1 l'
l' 2 n	l' 1 n
n 2 m'	n 1 m'
m' 3 n'	m' 2 n'

1 [[?]]

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95

Oct. 22, 1914

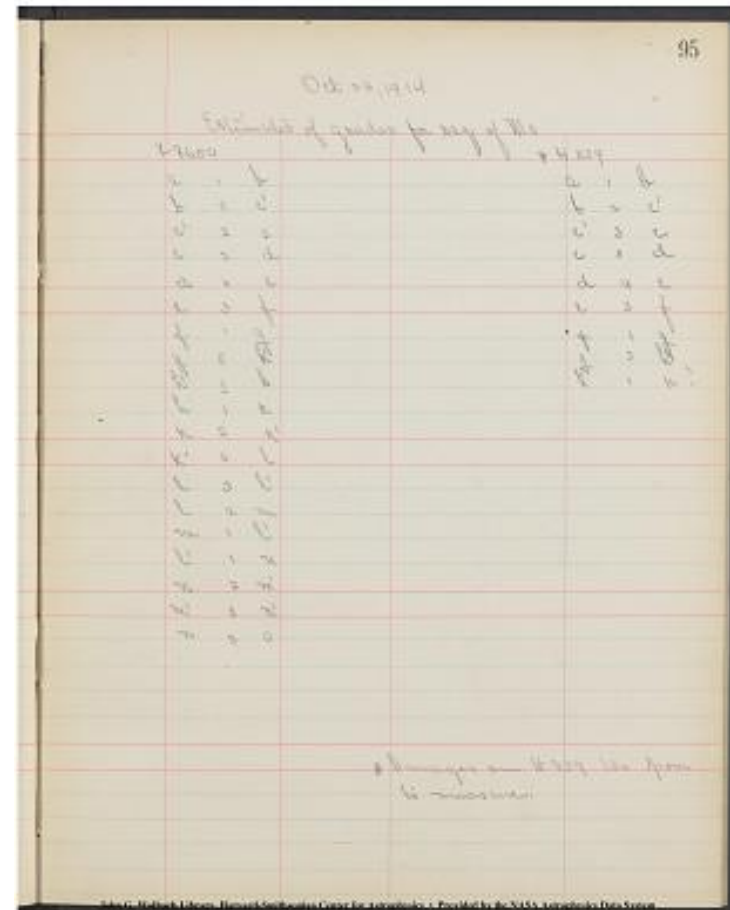
Estimates of grades for seq of Mo

[[7 columned table]]  
 X8650||| |\*H839|||  
 |---|---|---|---|---|---|

a	1	b	a	1	c'
b	2	e'	b	2	c'
c'	2	c	c'	3	c
c	2	d	c	3	d
d	6	e	d	4	e
e	3	f	e	3	f
f	1	g	f	1	g
g	5	h'	g	3	h'
h'	1	h	h'	1	k?
h	1	k			
k	2	k'			
k'	0	l			
l	3	l'			
l'	2	m			
m	1	l'			
l'	1	n			
n	2	m'			
m'	2	n'			
n	3	o			

\*Damages on H839 too poor to measure.

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Oct. 22, 1914

### Estimates of grades for seq. of M3

158 |

X 8611 | X 8650 | X9158 | X9204 | Mean ~~[[strikethrough]]~~7d

839~~[[/strikethrough]]~~ Sum

```
a | 2 | b | 1 | 1 | 1 | 08 |
```

100[[2]] | a | 0.00 |

b | 2 | c' | 2 | 1 | 2 | 18 | 0 0 1 0 | b | 0.08 |

c' | 3 | c | 2 | 3 | 3 | 28 | 0 1 | 0 0 | c | 0.26 |

c	2	d	2	3	2	22	0010	c <del>[[</del> d <del>]]</del>	0.54
---	---	---	---	---	---	----	------	---------------------------------	------

d | 6 | e | 6 | 5 | 5 | 55 | 00

1 | 1 | d | 0.76 |

e | 3 | f | 3 | 3 | 3 | 30 | 0000 | e | 1.31 |

f | 3 | g | 1 | 2 | 3 | 22 | 1 | 1 | 0 | f | 1.61 |

g | 4 | h' | 5 | 4 | 4 | 42 | 0100 | g | 1.83 |

h' | 0 | h | 1 | 0 | 1 |

[[05]] | 0 [[1]] 0

[[1]] | h' | 2.25 |

h	1	k	1	1	1	10	0000	h	2.20
h	1	h	2	2	1	15	55	h	133.155

k | 1 | k' | 2 | 2 | 1 | 15 1 00

[[underlined]]1[[/u]] | k | 2.30

k' [1] | | 0 | 0 | 0 |

$$k'[\underline{02}] | [\underline{1}] 000 | k' |$$

2.45 |

1 | 3 | 1' | 3 | 5 | 4 | 1 | 38 | 1 |

10 | 2.43 | mean 281 2.76

1	1	m	2	2	2	1	18	<u>1</u>	000	2.43
---	---	---	---	---	---	---	----	----------	-----	------

m | 1 | l' | 1 | 1 | 1 | m 10 | 0000 | ml' | 2.61 |

l' | 2 | n | 1 | 2 | 0 | l' 12 | 0011 | l' | 2.71 |

n	2	m'	2	2	3	n	22	0001	n	2.83
---	---	----	---	---	---	---	----	------	---	------

m' | 3 | n' | 2 | 3 | 2 | 25 | 1010 | m' | 3.05 |

n' | | ~~0~~ ~~3~~

||| ~~30 a~~ | n' ~~3.30~~

2.83~~[[/strikethrough]]~~

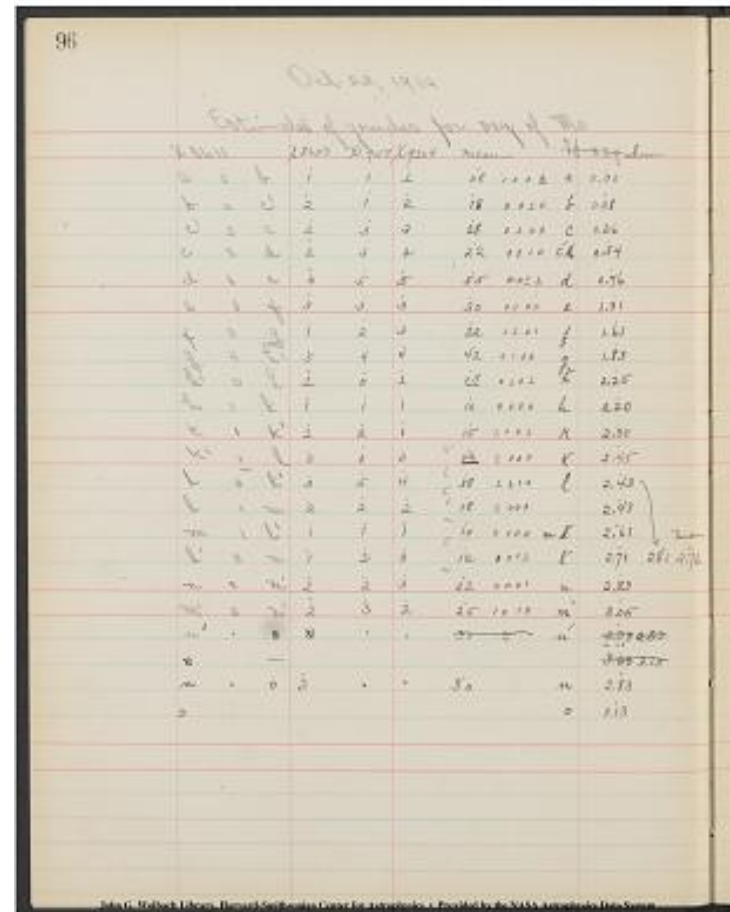
[illegible]

n	0	3	30	n	2.83
---	---	---	----	---	------

0 | | | | | | | | 0 | 3.13 |

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97

M5

June 15, 1915

Remeasures

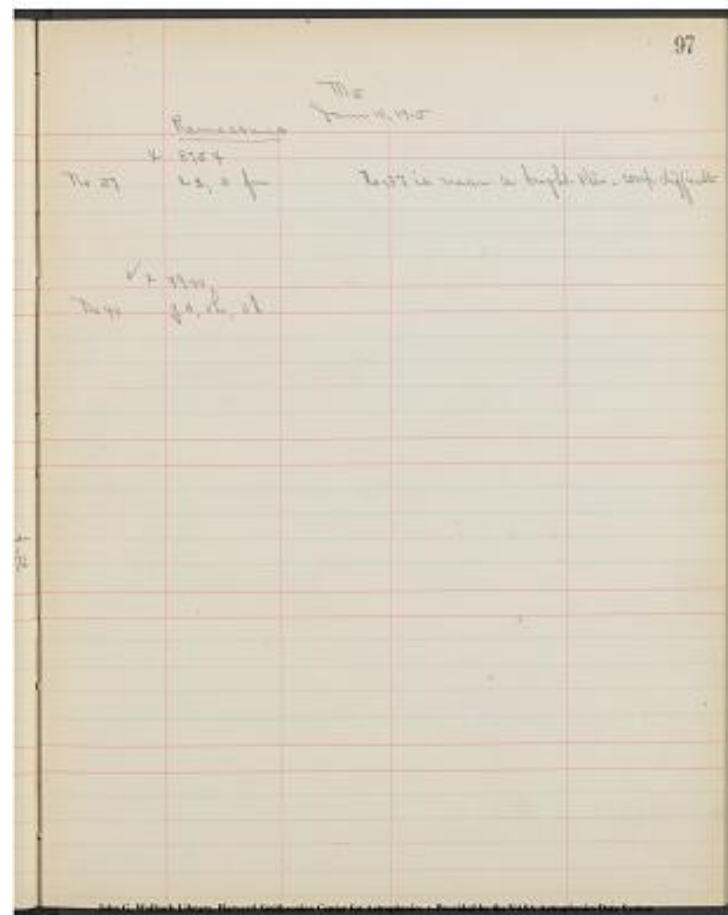
X 8754

No 37 l2,3 f No 37 is mean a bright plate \_ comp. difficult

x 9940

No 40 g 3, 0h, 3l

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98

M5

Sept 8, 1915

[[2 column table]]

No.62 | x7007 |

| b1 4, 1 c1 |

| x8710 |

Poor Plate. | a1 1, 3 b1 |

| x8662 |

| b1 3, 1 c1 |

| x7009 |

| a1 1, 5b1? |

| x6763 |

| b1 3, 1 c1 |

| x10254 |

| b1 1, 3c1 |

| x9916 |

| c1 1, 0d1, 3c1 |

| x6813 |

| a1 2, 3 b1 |

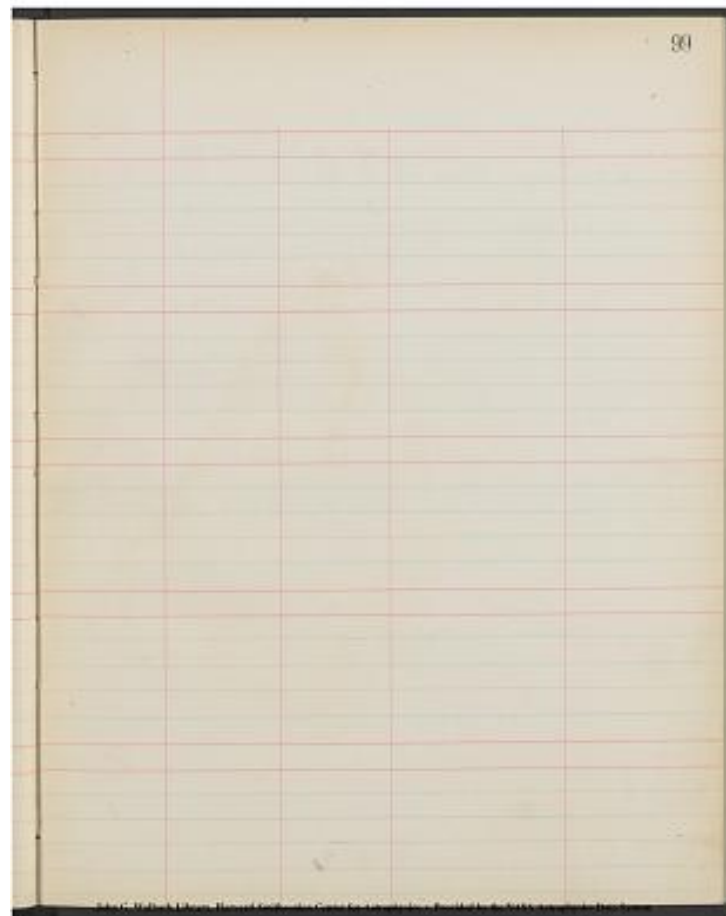
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Sc R 2d Eth. Oct 8, 1914

399 P 17 13+15 Aphutuce 14 in.

[[3 column table]]

R 17|Sc1 Sc2 5.7 6.0|Diff.|

R 19|6.8 7.1|5.64 4~~5~~93|

Db1 R 20| Db1|

21|8.3 8.6 6.65 0 1 8.7|4.22|

22|8.6 8.7 8.90 00 8.9|4.36|

R 23|9.0 9.3 9.25 10 9.2|4.20|

Too for R 24| |

25|10.95 10 10.9|11.0 3.14|

R 26|11.85 01 11.8|11.9 2.46|

27|12.15 01 12.2|12.1 2.54|

28|12.80 11 12.7|12.9 2.26|

29|13.25 01 13.2|13.3 2.12|

30|13.60 11 13.5|13.7 2.29|

R 31|11.5| |

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101

Oct 8, 1914

399 P 17 13+15 Aphutuce 14 in.

R	Sc1	Sc2	Diff.	Db1	Db2
17	5.7	6.0			
19	6.8	7.1	5.64	4	93
20					
21	8.3	8.6	6.65	0	1 8.7
22	8.6	8.7	8.90	00	8.9
23	9.0	9.3	9.25	10	9.2
24					
25	10.95	10	10.9	11.0	3.14
26	11.85	01	11.8	11.9	2.46
27	12.15	01	12.2	12.1	2.54
28	12.80	11	12.7	12.9	2.26
29	13.25	01	13.2	13.3	2.12
30	13.60	11	13.5	13.7	2.29
31	11.5				

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ScR 3d Eih Oct 8, 1914

MW 399 L7 13+15

[[3 column table]]

R 17|Sc1 Sc2 5.9 6.2|~~Diff. 6.2~~~~5.44~~R 19|7.0 7.3|~~4.73~~Dbl R 20|~~Db1~~21|8.7 9.0 9.05 01 9.1|~~9.05 3.82~~22|8.7 9.0 8.95 01 8.9|~~8.95 4.31~~Joo hoo R 23|~~q~~Joe hoo R 24|~~q~~25|11.05 10 11.1|~~11.0 11.05 3.04~~Jm. hazy R 26|11.75 01 11.8|~~11.7 11.75~~~~2.65~~27|12.15 10 12.1|~~12.2 12.15 2.54~~28|12.70 00 12.7|~~12.7 12.70 2.36~~29|12.00 11 13.1|~~12.9 13.00 2.37~~30|13.40 11 13.5|~~13.3 13.40 2.49~~

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h. S	Sc 1	Sc 2	Diff.
17	5.9	6.2	6.2
19	7.0	7.3	4.73
20			
21	8.7	9.0	9.05
22	8.7	9.0	8.95
23			
24			
25	11.05	10	11.1
26	11.75	01	11.8
27	12.15	10	12.1
28	12.70	00	12.7
29	12.00	11	13.1
30	13.40	11	13.5

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Sc R 4th Eth. [[?]] ap. Oct 8, 1914

399 P 17 13+15

[3 column table]

R 17|Sc1 Sc2 2.0 2.3|Diff. 9.34|

R 19|3.0 3.3|8.73|

Db1 R 20| |Db1|

21|4.0 4.3|8.57|

22|4.0 4.3|8.96|

Tou fan to c R 23| |d|

Tou fan to c R 24| |d|

5.3 5.6 25|5.6 5.9 5.75 2 1|8.34|

R 26|5.9 6.2|8.11|

27|6.0 6.3|8.39|

28|6.8 7.1|7.96|

29|7.1 7.4|7.97|

30|7.7 8.0|7.89|

Toohoo R 31| |q|

32|8.7 9.0 9.1|9.05 01 .|

33|96|9.4 9.50 11 .|

34|9.9|10.1 10.00 11 .|

35|10.7|.|

36|11.7|11.5 11.60 11 .|

37|12.7|.|

38|13.7? .|

39|13.9|.|

40|f|.|

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103

Sc R 4th Eth. ap. Oct 8, 1914

299.3 log base

1 17 10.27

209

7.74

2 19 10.11

175

3 21 10.00

28

4 23 10.15

2.77

5 25 10.12

1.76

6 27 10.00

1

7 29 10.00

1

8 31 10.00 09 10.21

8.73

9 33 10.14

8.11

10 35 10.13

8.39

11 37 10.11

7.96

12 39 10.10

7.97

13 41 10.02

7.89

Toohoo R 42

9

14 43 10.00 9.1 10.00

.

15 45 10.00 9.1 10.11

.

16 47 10.00 9.1 10.00

.

17 49 10.00

.

18 51 10.00 9.1 10.00

.

19 53 10.00

.

20 55 10.00

.

21 57 10.00

.

22 59 10.00

.

23 61 10.00

.

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104

ScR 5th Exp Oct 8, 1914

399P 17 13+15

[[3 column table]]

R 17 | 60 63 | 63 5.34

R 19 | 7.1 7.4 | 7.4 4.63

[[left margin]] Dbl

R 20 | [blank] | [blank]

21 | 8.7 9.0 01 | 9.1 | 9.05 3.82

22 | 8.9 9.2 01 | 9.1 | 9.15 4.11

[[left margin]] Too poor

R 23 | [blank] | q

[[left margin]] "

R 24 | [blank] | q

25 | 11.0 | 11.0 3.09

R 26 | 11.9 | 11.9 2.41

27 | 12.5 | 12.5 2.19

28 | 12.8 | 12.8 2.26

29 | 13.1 | 13.1 2.27

30 | 11 13.4 | 13.7 13.60 2.29

[[left margin]] 12 10

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104

ScR 5th Exp Oct 8, 1914

399P 17 13+15

[[3 column table]]

R 17 | 60 63 | 63 5.34

R 19 | 7.1 7.4 | 7.4 4.63

[[left margin]] Dbl

R 20 | [blank] | [blank]

21 | 8.7 9.0 01 | 9.1 | 9.05 3.82

22 | 8.9 9.2 01 | 9.1 | 9.15 4.11

[[left margin]] Too poor

R 23 | [blank] | q

[[left margin]] "

R 24 | [blank] | q

25 | 11.0 | 11.0 3.09

R 26 | 11.9 | 11.9 2.41

27 | 12.5 | 12.5 2.19

28 | 12.8 | 12.8 2.26

29 | 13.1 | 13.1 2.27

30 | 11 13.4 | 13.7 13.60 2.29

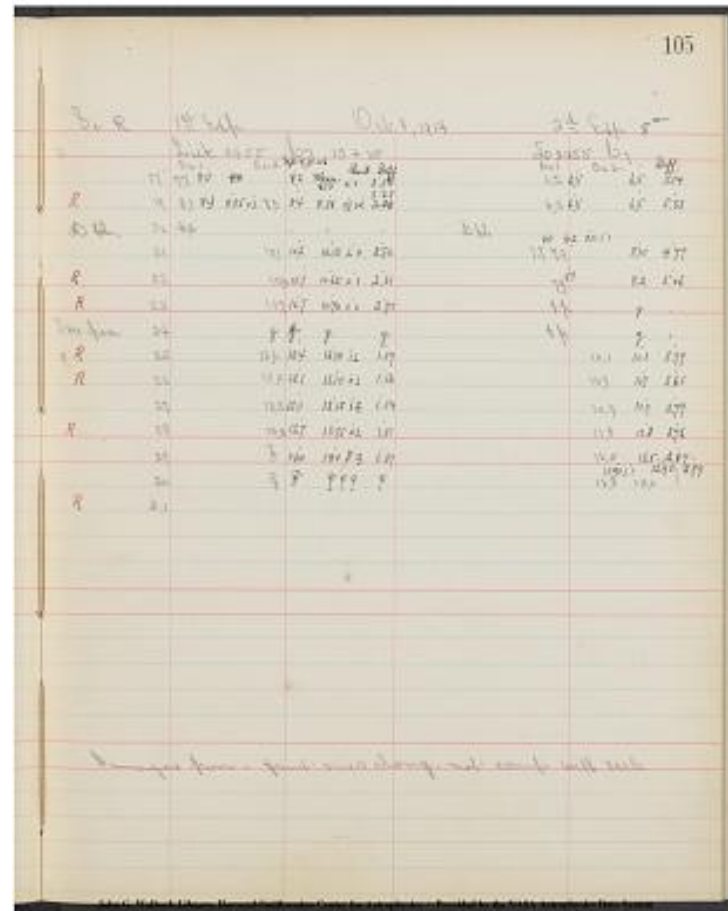
[[left margin]] 12 10

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ScR 101- Exh Oct 8, 1914 2d Exh 8^[[m]]  
[[5 column table]]  
3|Lick 2455|b7 13+15|L 2455 b7  
17|7.7 8.0|~~8.0~~|~~8.0~~|^|[[Sc1 Sc2]]|8.2^|[[Exp.4  
p.106]]|8. 10^|[[Mean]]|~~10.0~~|  
1|~~10.0~~|1^|[[Raid]]|3.54^|[[Diff.]]|6.2  
6.5^|[[Sc1]]|6.5^|[[Sc2]]|5. 14^|[[Diff.]]  
R 19|8.1 8.4 8.35 0|~~10.0~~|1|~~10.0~~|8.3|8.4 8.38  
|~~10.0~~|03|~~10.0~~| 02 3.65  
|~~10.0~~|3.36|~~10.0~~|7.62|6.5 6.5 5.53  
DbI. 20|~~10.0~~|8.2|~~10.0~~|. . .|DbI|  
21|10.1|10.2 10.15 |~~10.0~~|1|~~10.0~~|0 2.72|7.76|[8.0]] 7.9^|[8.2  
8.10|~~10.0~~|1|~~10.0~~|1]]|8.10 4.77  
R 22|10.6|10.7 10.65 0 1 2.61|7.9^|[8.2]] 8.2|8.2 5.06  
R 23|10.7|10.7 10.70 0 0 2.75|th|q .  
Too poor 24|q|q q q|th|q .  
R 25|12.6|12.4 12.50 1|~~10.0~~|1|~~10.0~~| 1.59||10.1 10.1 3.99  
R 26|13.2|13.1 13.15 0 |~~10.0~~|1|~~10.0~~| 1.16||10.7 10.7 3.61  
27|13.3|13.0 13.15 1 |~~10.0~~|2|~~10.0~~| 1.54||10.9 10.9 3.79  
R 28|13.8|13.7 13.75 0 |~~10.0~~|1|~~10.0~~| 1.31||11.3 11.3 3.76  
29|F|14.0 14.0 F a 1.37||12.5 12.5 2.87 2.99  
30|F|F ? ? ? ?|12.8^|[12.90 |~~10.0~~|1|~~10.0~~| 13.0^|[12.90]]  
R 3.1||||

Images poor . faint-ones elong. not comp with scale

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106

ScR|3d Exp 64m Oct 8, 1914 4th Exp  
[[5 column table]]

IL 2455 b7|13 + 15|L 2455|(cont)  
17|Sc1 Sc2|Diff|Sc1 7.9 8.2|Sc2 ~~7.9~~  
R 19|5.0 5.3| 5.3 6.73|8.1 8.4|  
Dbl 20||R R|Dbl.  
21|6.1 6.4|6.4 6.47||10.2  
R 22|5.8 6.1|6.4 7.05||10.7  
R 23|6.1 6.4|6.4 7.05||10.7  
R 24|6.2 6.5|6.5 7.38||t p  
R 25|7.1 7.4|7.4 6.69||12.4  
R 26|6.9 7.2|7.2 7.11||13.1~~12.4~~ w.s  
27|7.9 8.2 8.15 0 1 8.1|8.15 6.54||13.0  
R 28|8.0 8.3 8.25 1 0 8.2|8.25 6.81||13.7  
29|8.8 9.1 9.10 0 0 9.1|9.10 6.27||14.0  
30|9.7|9.7 6.19||F  
R 31|1 1 1 11.0 10.9|11.1 11.00 5.22||  
R 32|11.2|11.2||  
R 33|11.6|11.6||  
R 34|11.9|11.9||  
35|12.4|12.4||  
36|12.95 0 13.0|1 12.9 12.95||  
37|13.7|13.7||

2/ 05|||

Images a little elongated

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Sc R 1st Exp. Oct 9, 1914 2d Exp. 64 m

[[5 column table]]

|15|L 2498 b7|13+ 15 p.108|L|2498 (cont)  
 [[?]] unit-? 17|Sc 1. Sc 2 8.1 8.4 7.9 8.2 8.30 1 1|Exp. 1. Exp. 4 8.30 7.4  
 Mean|. . Diff. Sc1 40|43 Sc2 43 Diff 7.34  
 |R 19|8. ~~3~~ 8.3 8.45 1 2 8.6|8.45 8.3  
 8.38|07 08 3.65 4.2|4.5 4.5 7.53  
 |Dbl 20||R. R|R. R Dbl. ~~5.2~~|R .  
 21|10.1|10.1 9.8 9.95|1 2 2.92 5.2|5.5 5.5 7.37|  
R 22	10.1	10.0 10.0 10.05	1 0 3.21 5.1	5.4 5.4 7.86
R 23	10.7	10.7 1.09 10.80	1 1 2.65 5.2	5.5 5.5 7.95
R 24	11.55 2 1 11.4	11.7 11.55 11.7 11.62	07082.26 58	6.1 6.1 7.78
R 25	11.95 1 1 11.9	12.0 11.95 Sup. 11.95	a 2.14 61	6.4 6.4 7.69
~~R~~ 26	12.1	12.1 12.1 12.10	0 0 2.21 7.4	
7.1	7.1 6.8 7.25 21 7.25 7.06			
27	12.0 0 0			
 12. ~~12.12~~ 12.15|05 05 2.54 7.9 7.6|7.6 7.3 7.75 12 7.75 6.94  
 |~~R~~ 28| 13.0 13.0 129 1295 0  
 29| 133 13.3 13.2 13.25 10 2.12 8.18.4 8.4000 8.4 8.40 6.97  
 30| 13.7 13.7 18.5 13.60 11 2.29 38.79.0 9.0000 9.0 9.0 6.89  
 |R 31| ? ? ? ? ? 10.1 10.1 ~~6.21~~ 6.12  
 |R 32| 10.1  
 33| 10.5  
 |R 34| 11.0  
 35| 11.3  
 36| 12.1  
 37| 12.8  
 38| 13.0?  
 39| 13.7?  
 40| ?

The image shows a handwritten manuscript page, likely a ledger or data table, with the page number 107 in the top right corner. The page contains several rows of numerical data, some of which are crossed out or corrected. The handwriting is in ink on aged paper. The table structure is consistent with the transcription provided in the adjacent block, showing columns for various measurements and calculations, including values like 10.1, 11.55, 12.0, 13.0, 13.3, 13.7, 18.5, 13.60, 11, 2.29, 38.79.0, 9.0000, 9.0, 9.0, 6.89, and 6.12.

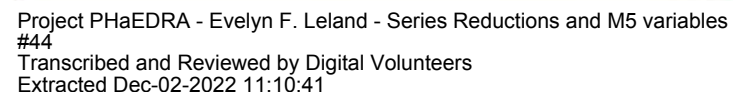
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Lo 2498	Lo7	13+15	L 2498	cout
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Series

Sc U      Oct 13, 1914

mc 6056 Pole

5

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8

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10

11      See B 47 h [[uo]]

12

13

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16

17

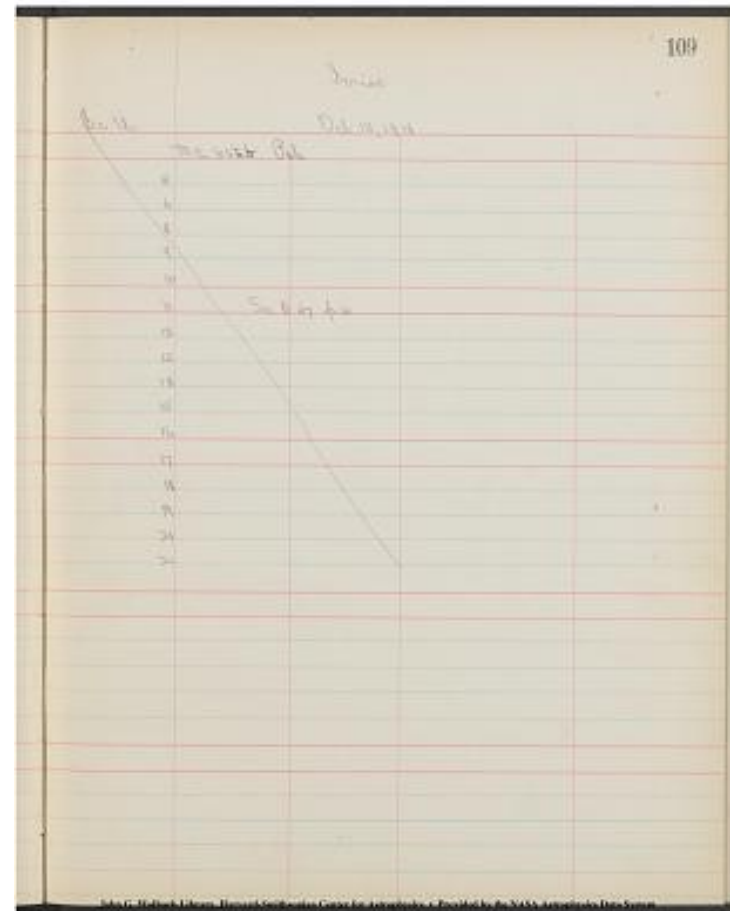
18

19

20

21

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110

Oct 14, 1914

8cR 1st Eth 2nd	2nd Eth 8th (?)
10 00 M Lo 2500 Lo7 13+15	2500 cont diff.
sc 1	sc2 diff se1 se2
R 17 7.9 8.2	8.2 3.44 4.1 7.4 7.4 4.24
18 t h q	thq q
19 t h q	thq q
Dff 20	Dff dff
21	10.7 10.7 21.17 10.1 10.1 2.77
22 t h q	th q
23 t h q	th q
24 t h q	th q
25 t h q	th q
26	12.3 12.3 2.01 12.3 12.3 2.01
27	13.1 13.1 1.59 13.2 13.2 1.49
28	13.9 13.9 1.16 13.7 13.7 1.36
29	ff 14.0 14.0 1.37
30	ff f q q

Sec mean Exp. 2nd p. 112

Images [[?]]

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 #44

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111

Oct 14, 1914

ScR[3d exp.64^m 4th exp 12^m (assume)

I2500 C7 13+15 I2500 (cont)

R 12 40 43. 3.9 42.510 h.25 7.39 5.9 6.2 60 6.3 6.25 00 6.25 5.39

19 4.1 4.4 4.4 7.63 tp

21 6.1 5.9 6.30 11 6.30 6.57 8.1 8.4 4.47

R 225.1 5.4 7.86 tp

23th tp

24th tp

R 25 6.6 6.9 6.9 7.19 tp

R 26 7.0 7.3 7.3 7.01 10.1 10.1 4.21

27 7.9 8.2 8.2 6.49 10.7 1.7 3.99

28 8.0 8.3 8.3 6.76 11.1 11.1 3.96

29 8.7 9.0 8.95 01 8.9 8.95 6.42 11.9 11.9 3.47

30 9.1 9.4 9.400 94 9.4- 6.49 12.2 3.69

R 31 10.7 10.7 5.52 tp q q

32 10.9 10.9 tp q q

33 11.7 11.9 tp

34 11.9 11.9 tp

35 12.7 12.7 tp

36 13.0 13.0 tp

37 12.7 12.7 tp

38 13.9 13.9 tp

39

Oct 14, 1914

Time	Mag	RA	Dec	Mag	RA	Dec
12	40	43	3.9	42.510	h.25	7.39
19	4.1	4.4	4.4	7.63	tp	
21	6.1	5.9	6.30	11	6.30	6.57
225.1	5.4	7.86	tp			
23th	tp					
24th	tp					
25	6.6	6.9	6.9	7.19	tp	
26	7.0	7.3	7.3	7.01	10.1	10.1
27	7.9	8.2	8.2	6.49	10.7	1.7
28	8.0	8.3	8.3	6.76	11.1	11.1
29	8.7	9.0	8.95	01	8.9	8.95
30	9.1	9.4	9.400	94	9.4-	6.49
31	10.7	10.7	5.52	tp q q		
32	10.9	10.9	tp q q			
33	11.7	11.9	tp			
34	11.9	11.9	tp			
35	12.7	12.7	tp			
36	13.0	13.0	tp			
37	12.7	12.7	tp			
38	13.9	13.9	tp			
39						

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112

Oct 14, 1914

Sc R 5th Exp 2nd  
I2500 C7 13 + 15

[[7 Columned Table]]

	Sc1	Sc2	p.110	Mean	Diff
17	7.7	80	8.0	8.2	8.1 000 3.54
19	tp	q	q q		
21	10.1	10.1	10.7	10.40	33 2.47
22	tp q	q q			
23	tp q	q q			
24	tp q	q q			
25	tp q	q q			
26	12.1	12.1	12.3	12.20	16 2.11
27	12.7	12.7	1.31	12.90	22 1.79
28	13.2	13.2	13.9	13.55	43 1.51
29	13.7	13.7	13.7	af	1.67
30	13.9	13.9	13.9	af	1.99

10 40

Very poor plate - images elongated

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112

Sc R 5th Exp 2nd  
I2500 C7 13 + 15

[[7 Columned Table]]

	Sc1	Sc2	p.110	Mean	Diff
17	7.7	80	8.0	8.2	8.1 000 3.54
19	tp	q	q q		
21	10.1	10.1	10.7	10.40	33 2.47
22	tp q	q q			
23	tp q	q q			
24	tp q	q q			
25	tp q	q q			
26	12.1	12.1	12.3	12.20	16 2.11
27	12.7	12.7	1.31	12.90	22 1.79
28	13.2	13.2	13.9	13.55	43 1.51
29	13.7	13.7	13.7	af	1.67
30	13.9	13.9	13.9	af	1.99

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Oct 14, 1914

Sc R ~~1st~~ 5th Exp. ~~2d~~  
~~4th Exp~~

11 00|1261 P|C10|19+15|Mean.|Diff.|1261P cont  
|Sc 1|Sc2|5th 3rd Exp. ~~5th~~ 1st  
Exp.|Sc1|Sc2 Con. Diff.

15|6.9 7.2| 7.2|7.0|6.80|7.00 200020 |4.17 |2.0|2.3|  
16 | 7.1 7.4 | 7.4 7.2 | 7.2 7.27 111 | 4.25 | 2.1 2.4 |  
17 | 8.1 8.4 | 8.4 7.4 | 7.5 7.77 643 | 4.14 | 3.0 3.3 |  
18 | 8.8 9.1 9.1000 9.1 | 9.10 8.5 | 8.5 8.70 40 20 20 | 3.63 | 3.9 4.2 |  
19 | 9.80 11 9.9 9.7 | 9.80 9.20 | 9.35 9.45 35 25 10 | 3.27 | 4.2 4.5 |  
20 | 10.25 1 2 10. ~~6~~

Assume that the numbers crossed off belong to the  
magns. of this 4th Exp.

Handwritten table on page 113 of a notebook. The table contains multiple columns of numbers, some of which are crossed out with red ink. There are handwritten notes in the left margin and at the bottom of the page.

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Oct 14, 1914

[Left Column]

Sc R 3d Exp  
1261 P cont  
Sc1 Sc2  
15|6.7 7.0  
16|6.9 7.2  
17|7.1 7.4  
18|8.2 8.5  
19|8.9 9.2 9.20 00 9.2  
20| 10.1  
R 21| 10.7  
22| 11.8  
23| 11.9  
24| 12.1  
25| 12.7  
e| 10.7  
b| 9.1  
R 7| 2.9 3.2  
26| 13.2  
27| f

[Middle Column]

2nd Exp  
Corr. Diff.  
7.19 4.33  
7.50 4.41  
8.53 3.80  
9.32 3.42  
9.81 3.02  
(10.78) 2.70  
11.71 2.11  
R R  
12.20 2.04  
12.30 2.31  
10.39 2.97  
8.69 3.80

13.60 1.17  
13.79? 1.07

[Right Column]

2nd exp  
1261(cont)  
Sc1 Sc2  
62 6.5  
6.8 7.1  
7.1 7.4  
8.1 8.4  
8.9 9.2 9.20 00 9.2  
9.7  
10.7  
11.7  
S1- Dup.

114

Oct 14, 1914

Sc R 3d Exp	1261 P cont	Sc1	Sc2
15 6.7 7.0			
16 6.9 7.2			
17 7.1 7.4			
18 8.2 8.5			
19 8.9 9.2 9.20 00 9.2			
20  10.1			
R 21  10.7			
22  11.8			
23  11.9			
24  12.1			
25  12.7			
e  10.7			
b  9.1			
R 7  2.9 3.2			
26  13.2			
27  f			

12.2  
12.3  
10.3  
8.5 8.55 10 8.6  
8.2  
3.0  
2.7  
13.7  
13.9?

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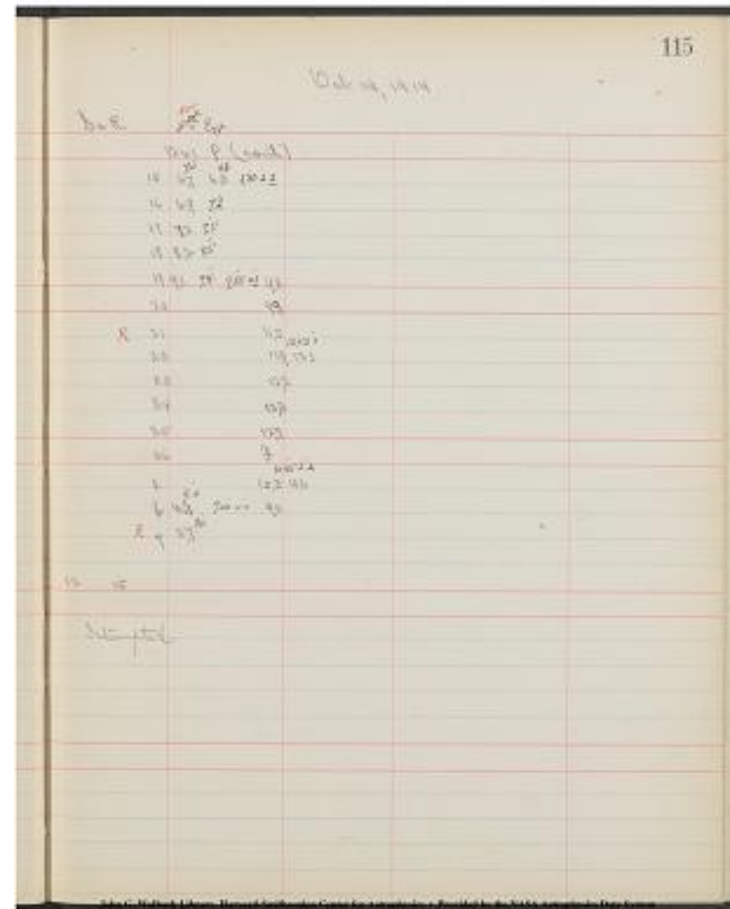
Oct 14, 1914

Sc R 1st Exp.

1261 P (cont)  
15|6.7^[[7.0]] 6.3^[[6.6]] 6.80 2 2  
16|6.9 7.2  
17|9.2 7.5  
18|8.2 8.5  
19|9.1 9.4 9.35 0 | 9.3  
20| 9.9  
R 21| 11.0  
22| 11.9 12.1 ^[[12.0 0 1 1]]  
23| 12.2  
24| 12.3  
25| 12.4  
26| F  
e 10.3 10.6 ^[[10.45 1 2]]  
b 8.7^[[9.0]] 9.00 0 0 9.0  
R 7 2.7^[[3.0]]

12 15

Interrupted.



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Oct 15, 1914

SE R

2 30 | 1236 | b10 | 19.15 (yellow)

Se1 Se2

R 7 | B

I | 5.9

b | 5.1

15 | 3.1

16 | 3.2

17 | 4.1

18 | 4.1

19 | 4.2

20 | 5.1

21 | 5.0 ~~[[strike through]]~~ -5.0-

22 | 5.1

23 | 7.1

24 | 7.3

25 | 6.7

26 | 8.1

27 | 9.7

28 | 10.0

29 | 10.7

30 | 11.0

31 | ~~[[strike through]]~~ -12.0- | 11.9

32 | 12.9 | 12.9

~~[[?]]~~ 33 | w.s 10.3 ~~[[strike through]]~~ -12.9-

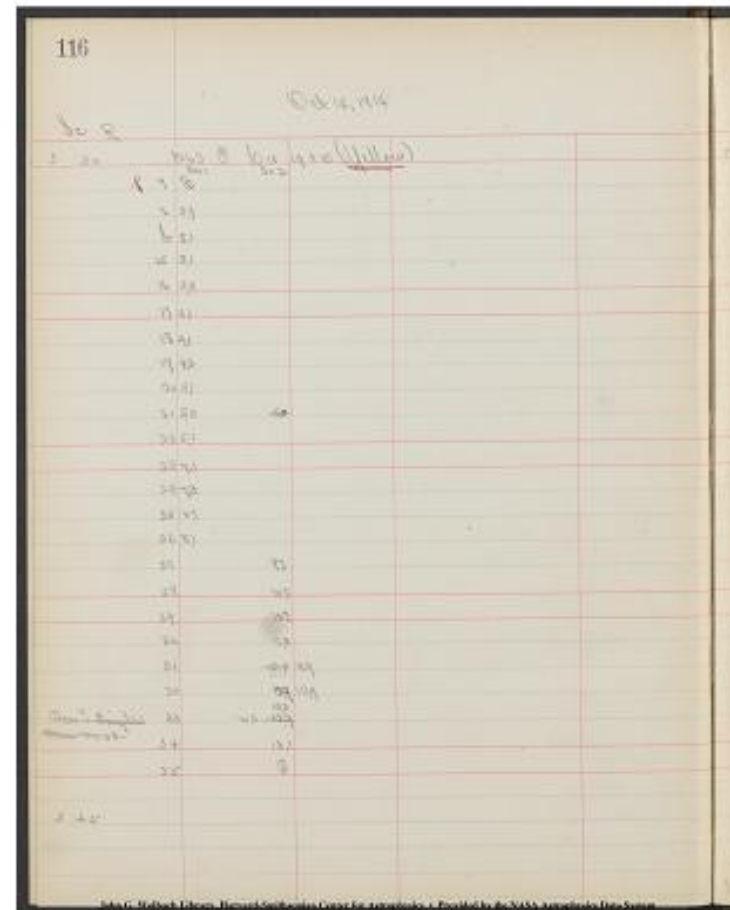
~~[[?]]~~ 33 | w.s 10.3 ~~[[strike through]]~~ -12.9-

~~[[?]]~~ 34 a | 13.1

35 | f

3 45

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#44

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Oct-15, 1917

Sc R 9 45 | 369 P b 10 | 19+15  
 Se 1 Se 2  
 7 B  
 e 3.9  
 b 3.1  
 15 1.1  
 16 2.0  
 17 2.7  
 18 3.0  
 19 3.2  
 20 3.8  
 21 4.0  
 22 5.1  
 23 4.9  
 R 24 5.0  
 R 25 6.0  
 R 26 6.2  
 27 7.3  
 8.1 28 7.9  
 29 8.7 9.1  
 Poor image 30 9.7  
 31 10.3  
 32 11.0 10.9  
 33 12.3 ?  
 34 12.9  
 35 13.5  
 36 13.7

Faint-images large and hazy - not comparable with scale images.  
 10 00

117

117

Oct 15

1	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
2	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
3	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
4	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
5	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
6	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
7	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
8	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
9	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
10	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
11	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
12	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
13	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
14	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
15	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
16	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
17	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
18	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
19	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
20	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
21	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
22	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
23	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
24	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
25	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
26	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
27	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
28	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
29	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
30	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
31	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
32	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
33	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
34	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
35	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7
36	2.7	3.9	4.9	5.1	5.7	6.0	6.2	7.3	7.9	8.7	9.1	9.7	10.3	11.0	10.9	12.3	12.9	13.5	13.7

Faint-images large and hazy - not comparable with scale images.  
 10 00

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5

Oct 15~~[[strikethrough]]~~6~~[[/strikethrough]]~~, 1914

| Sc R | Br. Exp. | | | Ft. Exp |  
| 10 25 | L2348 | b10 | 19+15 | | |

21	5.2 <sup>^</sup> [[Sc 1]]	^[[Sc 2]]		7.1 <sup>^</sup> [[Sc 1]]	^[[Sc 1]]
22	6.1	7.9			
23	6.1	7.7			
24	6.1	8.7			
25	6.7	8.7		8.9	
26	6.9	8.9		9.2	
27	7.9	10.1			
28	8.3	10.7			
29	8.8	9.1		11.2	
30	9.7	11.9			
31	10.3	12.1			
32	10.9	12.7			
33	11.7	12.7		13.0	
34	12.1	11.9		13.2	
35	13.1	13.8			
36	13.7				
10 50	13.7				

Images not circular bright-ones too close to measure

118

Oct 15

Sc R	Br. Exp.	Ft. Exp.
10 25	L2348	b10
19+15		
21	5.2	7.1
22	6.1	7.9
23	6.1	7.7
24	6.1	8.7
25	6.7	8.7
26	6.9	8.9
27	7.9	10.1
28	8.3	10.7
29	8.8	9.1
30	9.7	11.9
31	10.3	12.1
32	10.9	12.7
33	11.7	12.7
34	12.1	11.9
35	13.1	13.8
36	13.7	
10 50	13.7	

Images not circular bright-ones too close to measure

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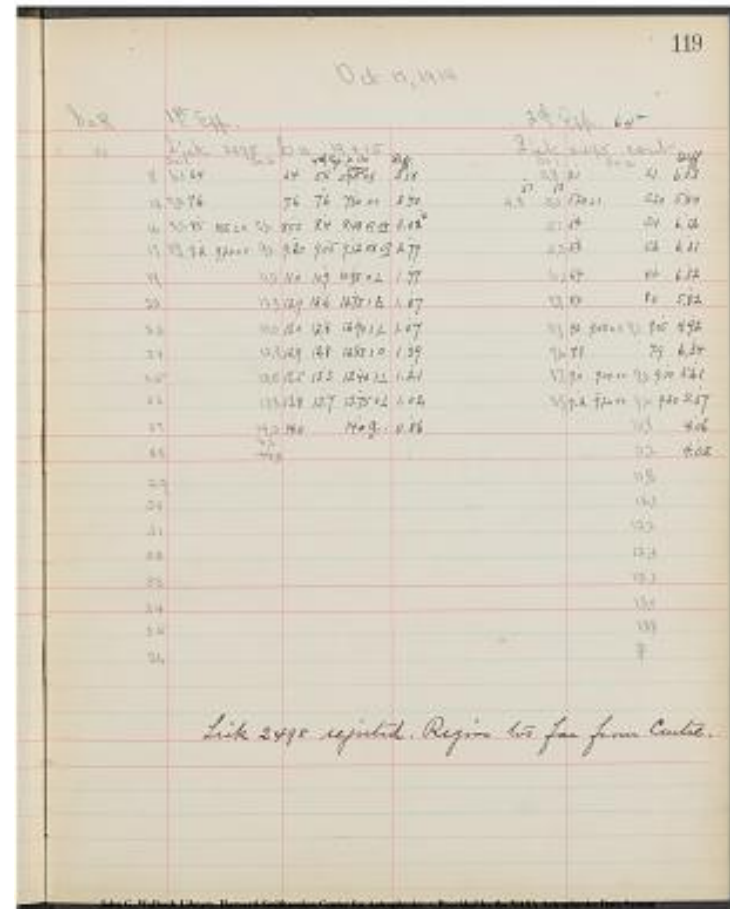


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Oct 17, 1914

Sc R | 1st Exp                      2nd Exp. 64m  
 1 30 | Lick 2495 | L 10 19 + 15 | Lick | 2495 cont  
 --- | Sc1 Sc2 | 4th Exp p.120 | Diff Sc1 | Sc2 Diff  
 8 | 6.1 6.4 | 6.4 5.5 5.9545 | 3.18 2.8 | 3.1 3.1 6.03  
 14 | 7.3 7.6 | 7.6 7.6 7.60 00 | 3.40 4.8 5.1 5.3 5.0 | 5.201 5.20 5.80  
 16 | 8.2 8.5 8.55 10 8.6 | 8.55 8.4 8.48 07 08 | 3.0  
~~[[strikethrough]]8[[strikethrough]]~~ 4 5.1 | 5.4 5.4 6.12  
 17 | 8.9 9.2 9.2000 9.2 | 9.20 9.05 9.12 08 07 | 2.79 5.3 | 5.6 5.6 6.31  
 19 | 11.0 | 11.0 10.9 10.95 0 1 | 1.77 6.1 | 6.4 6.4 6.32  
 22 | 12.9 | 12.9 12.6 12.75 1 2 | 1.07 7.7 | 8.0 8.0 5.82  
 23 | 13.0 | 13.0 12.8 12.90 1 1 | 1.07 8.7 | 9.0 9.0501 9.1 9.05 4.92  
 24 | 12.9 | 12.9 12.8 12.85 1 0 | 1.39 7.6 | 7.9 7.9 6.34  
 25 | 13.5 | 13.5 13.3 13.40 1 1 | 1.21 8.7 | 9.0 9.0000 9.0 9.00 5.61  
 26 | 13.8 | 13.8 13.7 13.75 0 1 | 1.02 8.9 | 9.2 9.2000 9.2 9.20 5.57  
 27 | 14.0 | 14.0 14.0 a. | 0.86 | 10.8 4.06  
 28 | ~~[[strikethrough]]14.0[[strikethrough]]~~ h.s | --- | --- | 11.2 4.02  
 29 | --- | --- | --- | 11.8  
 30 | --- | --- | --- | 12.1  
 31 | --- | --- | --- | 12.2  
 32 | --- | --- | --- | 12.4  
 33 | --- | --- | --- | 13.1  
 34 | --- | --- | --- | 13.5  
 35 | --- | --- | --- | 13.8  
 36 | --- | --- | --- | f

Lick 2495 ~~[[rejected?]]~~ Regim too far from ~~[[?]]~~



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Oct 17, 1914

Sc R 3d Exp 8 m 4th Exp

[[5 column table]]

L 2 <del>[[strikethrough]]</del> 3 <del>[[strikethrough]]</del> 495 cont     L 2495 cont				
Sc1	Sc2	Sc1	Sc2	
8	4.1 4.4	Diff.	5.2	5.5
14	6.2 6.5	4.73 4.50	7.3	7.6
16	6.3 6.6	4.92	8.1	8.4
17	7.1	7.4	4.57	8.7 9.0 9.05 0 1 9.1
19	8.2 8.5	4.22	10.9	
22	10.9	2.92	12.6	
23	10.8	3.17	12.8	
24	11.2	3.04	12.8	
25	11.9	2.81	13.3	
26	12.1	2.67	13.7	
27	13.0	1.86		
28	13.40	1 1 13.5	13.3 1.82	
29	13.5			
30	14.0			
31	f			
2 04				

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Oct 17, 1914

Sc R 1st Exp 2nd Exp

[[5 column table]]

4 30	S 2501	L 10	19+15	L	2501 cont
---	Sc1	Sc2	4th.Exp. [[?]]	12 2	Mean   Diff. Sc1   Sc2 Diff.
R 8	52 55	5.5 5.5	5.50 00		3.63 2.2   2.5 2.5 6.63
R 14	7.1 7.4	7.4 7.5	7.45 01		3.55 4.0   4.3 4.3 6.70
R 16	4.2 7.5	7.5 R	7.5 aR		4.02 4.2   4.5 4.5 7.02
19	<del>[[?]]</del>	10.2	<del>[[?]]</del>	10.2	10.2 10.1 10.15 0
1	2.57 17 5.1	5.4 5.4	6.51		
R 17	t[[?]]	q 8.4 8.4	q A		3.51 19 5.6 5.3 6.0 5.7   5.80 2 2
5.80 6.92					
22	12.2	12.2 11.9	12.05 2 1		1.77 7.1   7.4 7.4 6.42
R 23	12.1	12.1 11.8	11.95 1 2		2.02 6.9   7.2 7.2 6.77
24	12.2	12.2 12.0	12.10 1 1		2.14 7.0   7.3 7.3 6.94
25	12.8	12.8 13.2	13.00 2 2		1.61 7.8   8.1 8.1 6.51
26	13.0	13.0 13.5	13.25 2 3		1.52 8.1   8.4 8.4 6.37
27	F	F R		9.4 9.1	9.35 0 1 9.3 9.35 5.51
28	---	R		---	10.1 5.12
29	---	---		---	10.3
30	---	---		---	10.7
31	---	---		---	11.6
32	---	---		---	12.2
33	---	---		---	12.3
34	---	---		---	12.8
35	---	---		---	13.5
36	---	---		---	13.8
37	---	---		---	13.9

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Oct 17, 1914

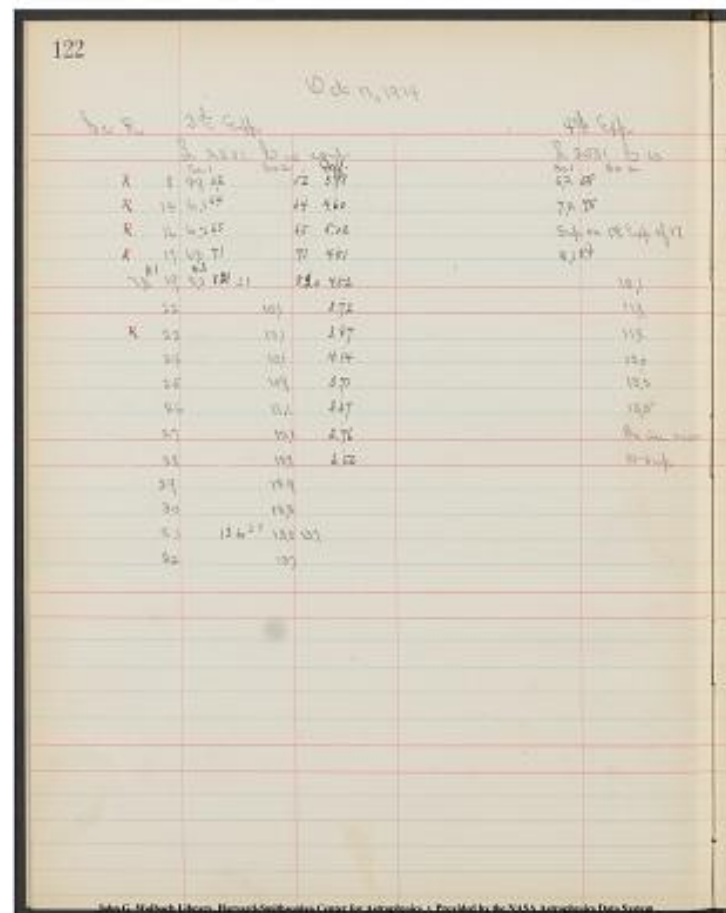
[[5 column table]]

```

[5 C] min L 1 0 cont[L2] 501 L 10|
R 8| Sc 1 Sc2 4.9 5.2|Diff. 5.2 3.43|Sc1 5.2|Sc2 5.0|
R 14|6.1 6.4|6.4 4.60|7.2|7.5|
R 16|6.2 6.5|6.5 5.02|Sup|on 1st. Exp of 17|
R 17|6.8 7.1|7.1 4.81|8.1|8.4|
7.8 8.1 19|8.0 8.20 1 1|8.20 4.52| |10.1|
22|10.1|3.72| |11.9|
R 23|10.1|3.87| |11.8|
24|10.1|4.14| |12.0|
25|10.9|3.71| |13.2|
26|11.1|3.67| |13.5|
27|12.1|2.76| |Br in. near|
28|12.7|2.52| |St Dup|
29|129| | | |
30|13.3| | | |
31|13.60 1 1 |13.5|13.7| | |
32|13.7|

```

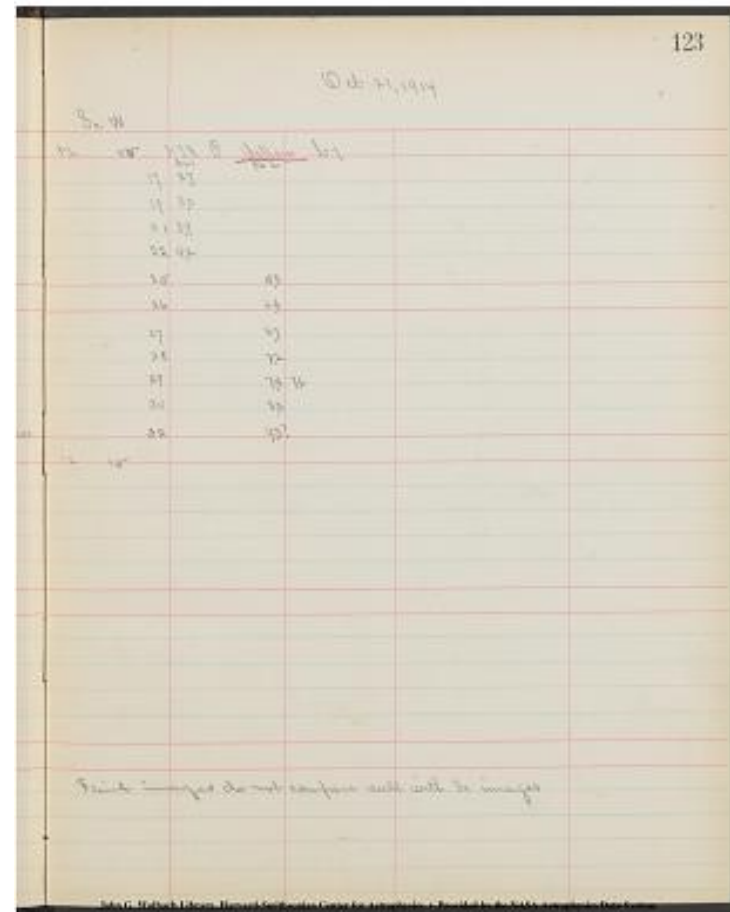
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17  
11  
21  
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125

Jan ~~6~~7,  
191~~4~~5

Sc P 1st Exp.  
[[5 column table]]  
11 1046 P C4 7+15

[[6 column table]]  
|Sc 1|Sc 2| |Sc 2  
9|3.2|2.9| |R 028|Sc2 7.5  
25b| |7.2| |~~0.32~~ | 8.1 ?~~8.1~~  
26| |7.3| |R 024|6.1|  
27b| |7.5  
R 16|4.3 4.0|4.1 4.05  
0.24| wr. u? ~~5 6~~ ~~1~~  
28| |7.5 7.7 7.60  
25| |7.1  
23| |5.7  
31| |9.0?  
24| |6.3  
29| |8.1  
27a| |7.1  
18|4.7 4.4|4.3 4.35  
25a| |6.6  
30| |9.2?  
R 19|5.3 5.0|5.0 5.00  
22|5.8  
R 13|3.3|3.0  
025| |6.5 6.7 6.60  
R 20| |5.8 5.5 5.65  
R 026| |6.7  
I| |5.2  
~~Close to br. star 041~~ | 8.1?~~8.1~~  
R 031| |w.s ~~5.3~~ 8.1  
R 027| |6.9  
R 029| |7.7  
Close to br. object 030| |~~8.1~~7.9  
R 033| |8.8 8.8

11 30

125

Jan 6 7,  
191 4 5

Sc P 1st Exp.  
[[5 column table]]  
11 1046 P C4 7+15

[[6 column table]]  
|Sc 1|Sc 2| |Sc 2  
9|3.2|2.9| |R 028|Sc2 7.5  
25b| |7.2| |~~0.32~~ | 8.1 ?~~8.1~~  
26| |7.3| |R 024|6.1|  
27b| |7.5  
R 16|4.3 4.0|4.1 4.05  
0.24| wr. u? ~~5 6~~ ~~1~~  
28| |7.5 7.7 7.60  
25| |7.1  
23| |5.7  
31| |9.0?  
24| |6.3  
29| |8.1  
27a| |7.1  
18|4.7 4.4|4.3 4.35  
25a| |6.6  
30| |9.2?  
R 19|5.3 5.0|5.0 5.00  
22|5.8  
R 13|3.3|3.0  
025| |6.5 6.7 6.60  
R 20| |5.8 5.5 5.65  
R 026| |6.7  
I| |5.2  
~~Close to br. star 041~~ | 8.1?~~8.1~~  
R 031| |w.s ~~5.3~~ 8.1  
R 027| |6.9  
R 029| |7.7  
Close to br. object 030| |~~8.1~~7.9  
R 033| |8.8 8.8

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ScB 2d Exp with Screen(b)

2 00 1046 P No correction for order of exp.

[6 column table]

| Sc.1 | Sc. 2 | Diff. | | Sc. 2

9| 3.0 |2.7| 6. ~~[[[strikethrough]]] 7 [[/strikethrough]]~~ 64| R 032| 7.7|  
R 13|3.1| 2.8|7.39|R 033| 8.2 8.5|  
R 16| 4.0 |3.7 3.70 3.7| 7.40| R 034| 9.2|  
18| 4.3 |4.0, 4.05, 4.1|7.88| R 035| |  
R 19| 4.8|7.32|R 036| |  
R 20| 5.3| 7.20| R 037| |  
R 22| 5.5| 7.26| R 038| |  
23| 5.4| 7.62| R 039| |  
24| 6.1| 7.48| R 040| |  
25a| 6.3| 7.49| R 041| |  
25b| 7.1| 7.21| R c| 4.8|  
26| 7.1| 7.02| R 024| 5.7|  
27a| 6.8| 7.60| | |  
27b| 7.4| 7.56| | |  
28| 7.7| 7.22| | |  
29| 7.9| 7.64| | |  
30| 9.0| (6.82)| | |  
31| 9.1| | | |  
32| 8| | | |  
R 17| 4.0| | | |  
W.S meas for v24 R 024| 4.8| | | |  
R 025| 6.3| | | |  
R 026| 6.5| | | |  
R 027| 6.8| | | |  
R 028| 7.2| | | |  
R 029| 7.5| | | |  
R 030| 7.5| | | |  
R 031| 7.9| | | |

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Jan 7, 1915

Sc P 3d Exp  
3 00 1046 P

[[3 column table]]

Sc1|Sc2

9|3.2|2.9 024 6.1

13|3.3|3.0

16|4.3 4.0|W.s ~~3.8~~4.0 4.00

18| 4.7

19| 5.1

20|~~5.7~~5.7

22| 5.7

23| 5.5

24| 6.2

25a| 6.5

25b| 7.1

26| 7.2

27a| 7.5

27b| 7.5

28| 7.5

29| 8.1

30| 19.0

31| 9.3?

17| 4.2

024| 5.1|Reject ~~meas?~~ star

[[left margin]] W.S. meas for 024 See Upper Corner [[left margin]]

025| 6.5

026| 6.5

027| 6.8

028| 7.3

029| 7.6

030| 7.5

031| 8.0

032| 7.7

e| 4.9

3 25

Handwritten astronomical data table on page 127. The table is organized into columns for star names, measurements, and other data. Handwritten notes and corrections are visible throughout the table.

Star Name	Measurement 1	Measurement 2	Other Data
9	3.2	2.9	024 6.1
13	3.3	3.0	
16	4.3	4.0	W.s <del>3.8</del> 4.0 4.00
18	4.7		
19	5.1		
20	<del>5.7</del> 5.7		
22	5.7		
23	5.5		
24	6.2		
25a	6.5		
25b	7.1		
26	7.2		
27a	7.5		
27b	7.5		
28	7.5		
29	8.1		
30	19.0		
31	9.3?		
17	4.2		
024	5.1		Reject <del>meas?</del> star
025	6.5		
026	6.5		
027	6.8		
028	7.3		
029	7.6		
030	7.5		
031	8.0		
032	7.7		
e	4.9		

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Sc P 4th Exp (ā)

[5 column table]

11 35 | 1046 P | No correction for order of exp. | Sc1 Sc2 |  
9 | Sc1 Sc2 1^1 0.8 | Diff. 8.54 | . R 027 | 3.5

~~3~~ ~~3.2~~

R 13 | 1.3? 1.0? | 9.19 | R 028 | 4.1 |

R 16 | 2.2 1.9 | 9.20 | R 029 | 46 |

R 17 | 2.3 2.0 | 9.50 | R 030 | 4. ~~8~~ ~~QR~~ |

18 | 2.4 2.1 | 9.83 | R 031 | 4.9 |

R 19 | 2.8 2.5 | 9.62 | R 032 | 4.2 |

R 20 | 3.2 2.9 | 9.60 | R 033 | 5.0 |

R 22 | 3.2 2.9 | 9.86 | R 034 | 5.9 |

23 | 3.1 2.8 | ~~9~~ ~~10.22~~ | R 035 | 6.1 |

24 | 3.9 3.5 | 10.08 | R 036 | 6.3 |

25a | 3.9 3.6 | 10.19 | R 037 | 7.0 |

25b | 4.2 3.9 4.0 | 3.95 10.36 | R 038 | 7.2 |

26 | 4.3 4.0 4.1 | 4.05 10.07 | R 039 | 7.9 |

27b | 4.4 4.3 | 4.35 10.61 | R 030 | 8.1 |

27 ~~a~~ ~~b~~ ~~a~~ | 4.2 | 10.20 | R 041 | ? |

28 | 4.7 | 10.22 | R 1 | 3.1 2.8 |

29 | 5.1 | 10.44 | R 038a | 7.1 |

30 | 5.7 | (10.12) | R 038b | 7.3 |

31 | 6.1 | ~~0.30~~ | |

32 | 6.3 | | |

33 | 6.9 | | |

34 | 7.2 | | |

35 | 7.7 | | |

36 | 8.3 | | |

37 | 8.5 | 87 | |

R 024 | 3.2 2.9 | | |

R 025 | 3.5 ~~3.5~~ ~~3.2~~ | | |

R 025 | 3.9 | | |

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Jan 8, 1915

Sc P ~~4~~ 5th Exp. (c)

[5 column table]

3 15 | 1046 P | Exp. 1 Exp. 3 | Mean ~~5~~ 1 3 ~~3~~ Diff. | Sc

2 Exp. 1 Exp. 3 |

| Sc1 Sc2 | p. 125 p. 127 | . . . . |

9 | 3.2 2.9 | 2.9 2.9 | 2.90 0 0 0 6.44 R031 | 7.9 8.1 8.0 8.00 1 10 |

R 13 | 3.3 3.0 | 3.0 3.0 | 3.00 0 0 0 7.19 R032 | 8.0 7.7 7.85 2.1 |

R 16 | 4.2 3.9 3.9 | 3.90 4.05 4.00 | 3.98 08 07 02 7.12 R033 | 8.7 8.8

8.75 1 0. |

R 17 | 4.2 | 4.2 | 4.20 0 0 7.30 R034 | 9.0 9.0 a. |

18 | 4.7 | 4.35 4.7 | 4. ~~42~~ ~~58~~ 12 21 12

7.35 |

R 19 | 5.0 | 5.00 5.1 | 5.0 ~~0~~ ~~3~~ 03 03 07

7.09 |

R 20 | 5.5 | 5.65 5.7 | 5.62 12 03 08 6.88 | |

R 22 | 5.8 | 5.8 5.7 | 5.77 0 0 1 6.99 | |

23 | 5.8 | 5.7 5.5 | 5.67 1 0 ~~1~~ ~~2~~ 7.35 | |

24 | 6.2 | 6.3 6.2 | 6.23 0 10 7.35 | |

Dbl. 25 | 4.2 | 7.1 | 7.1 a. 6.80 uy. | dbl |

26 | 7.2 | 7.3 7.2 | 7.23 0 10 6.8 ~~8~~ ~~9~~ | |

Dbl. 27 | | | |

28 | 7.5 | 7.60 7.5 | 7.53 03 07 03 7.39 | |

29 | 8.2 | 8.1 8.1 | ~~7~~ ~~8.13~~ 1 00 7.41 | |

30 | 8.9 | 9.2? 9.0 | 9.03 1 2 0 (6.79) | |

31 | 9.0? 9.3? | 9.15? 7 21 | |

27a | 7.1 | 7.1 7.1 | 7.10 0 0 0 | |

27b | 7.7 | 7.5 7.5 | 7.57 1 1 1 | |

25a | 6.5 | 6.6 6.5 | 6.53 0 1 0 | |

25b | 7.1 | 7.2 7.1 | 7.13 0 1 0 | |

R 024 | 6.1 | 6.1 ~~5~~ ~~6.1~~ 6.10 0 00 | |

R 025 | 6.3 | 6.60 6.5 | 6.47 17 13 03 |

R 026 | 6.6 | 6.7 6.5 | 6.60 01 1 | |

R 027 | 7.0 | 6.9 6.8 | 6.90 1 0 1 | |

R 028 | 7.3 | 7.5 7.3 | 7.37 1 1 1 | |

R 029 | 7.5 | 7.7 7.6 | 7.60 1 1 0 | |

R 1 | 4.9 | 5.2 4.9 | 5.00 1 21 | 3 45 |

R 030 | W.S. ~~8.9~~ ~~7.5~~ | 7.9 7.5 | 7.63 1 31 |

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Sc P 4 5th Exp. (c)

	3	15	1046 P	Exp. 1	Exp. 3	Mean	Diff.	Sc
9	3.2	2.9	2.9	2.90	0 0 0	6.44	R031	7.9 8.1 8.0 8.00 1 10
R 13	3.3	3.0	3.0	3.00	0 0 0	7.19	R032	8.0 7.7 7.85 2.1
R 16	4.2	3.9	3.9	3.90	4.05 4.00	3.98	08 07 02	7.12 R033   8.7 8.8 8.75 1 0.
R 17	4.2	4.2	4.2	4.20	0 0 7.30	R034	9.0 9.0 a.	
18	4.7	4.35	4.7	4.	<del>42</del> <del>58</del>	12 21 12	7.35	
R 19	5.0	5.00	5.1	5.0	<del>0</del> <del>3</del>	03 03 07	7.09	
R 20	5.5	5.65	5.7	5.62	12 03 08	6.88		
R 22	5.8	5.8 5.7	5.77	0 0 1	6.99			
23	5.8	5.7 5.5	5.67	1 0	<del>1</del> <del>2</del>	7.35		
24	6.2	6.3 6.2	6.23	0 10	7.35			
Dbl. 25	4.2	7.1	7.1	a. 6.80	uy.		dbl	
26	7.2	7.3 7.2	7.23	0 10	6.8	<del>8</del> <del>9</del>		
Dbl. 27								
28	7.5	7.60 7.5	7.53	03 07 03	7.39			
29	8.2	8.1 8.1	<del>7</del> <del>8.13</del>	1 00	7.41			
30	8.9	9.2? 9.0	9.03	1 2 0	(6.79)			
31	9.0?	9.3?	9.15?	7 21				
27a	7.1	7.1 7.1	7.10	0 0 0				
27b	7.7	7.5 7.5	7.57	1 1 1				
25a	6.5	6.6 6.5	6.53	0 1 0				
25b	7.1	7.2 7.1	7.13	0 1 0				
R 024	6.1	6.1	<del>5</del> <del>6.1</del>	6.10	0 00			
R 025	6.3	6.60 6.5	6.47	17 13	03			
R 026	6.6	6.7 6.5	6.60	01 1				
R 027	7.0	6.9 6.8	6.90	1 0 1				
R 028	7.3	7.5 7.3	7.37	1 1 1				
R 029	7.5	7.7 7.6	7.60	1 1 0				
R 1	4.9	5.2 4.9	5.00	1 21	3 45			
R 030	W.S.	<del>8.9</del> <del>7.5</del>	7.9 7.5	7.63	1 31			

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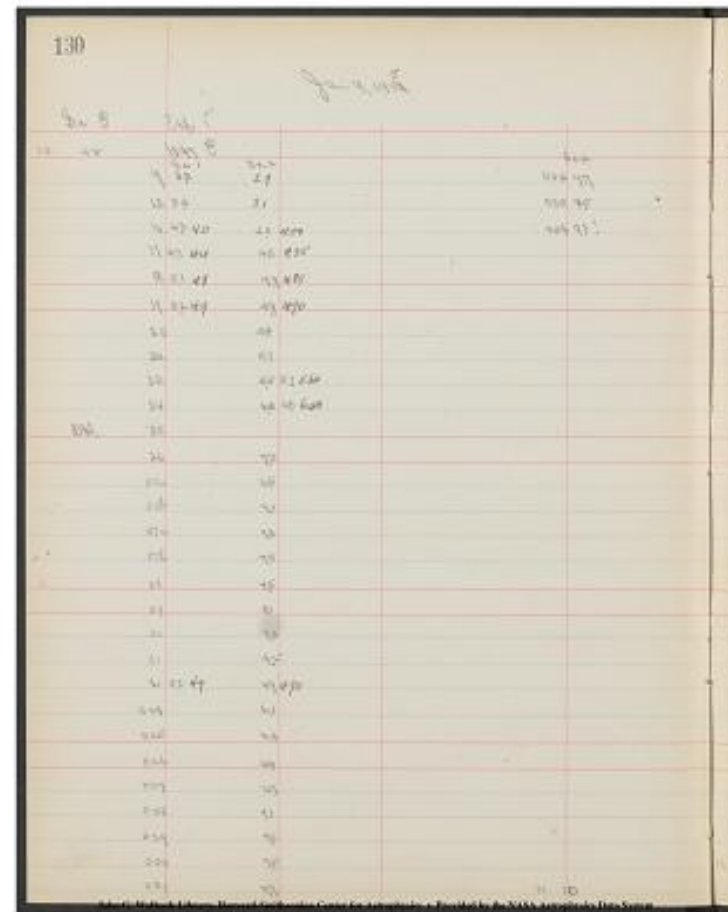
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Jan 9, 191~~4~~~~5~~

Sc P	Exp 1				
10 45	1047				11
	se 1	se 2	se 2		
	9  3.2	2.9	032  7.7		
	13  3.4	3.1	033  8.5		
	16  4.3 4.0	4.0 4.00	034  9.3?		
	17  4.7 4.4	4.3 4.35			
	18  5.1 4.8	4.9 4.85			
	19  5.2 4.9	4.9 4.90			
	20	5.4			
	22	5.7			
	23	5.5 5.7 5.60			
	24	6.5 6.3 6.40			
DbI	25				
	26	7.3			
	25a	6.5			
	25b	7.1			
	27a	7.3			
	27b	7.5			
	28	7.5			
	29	8.1			
	30	9.0			
	31	9.2?			
	1  5.2 4.9	4.9 4.90			
	024	6.1			
	025	6.4			
	026	6.6			
	027	6.7			
	028	7.1			
	029	7.5			
	030	7.5			
	031	7.7			

11 10

12



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Jan 9, 191~~4~~~~5~~

Sc B | Exp 2 (a)

11 25|1047 B| Corr. for Order. Diff. | Sc1 Sc2 Corr. for Order

Sc1	Sc2								
9 1.3	1.0 1.0	8.34	R 027	3.7	3.4	3.4			
13 2.0	1.7 1.7	8.49	R 028	4.2	^[[4.20]]	4.2	4.20		
16 2.3	2.0 2.0	9.10	R 029	4.0	^[[4.05]]	4.1	4.05		
17 2.4	2.1 2.1	9.40	030	4.4	^[[4.35]]	4.3	4.35		
18 2.9	2.6 2.6	9.33	031	4.7	^[[4.65]]	4.6	4.65		
19 3.1	2.8 2.8	9.32	R 032	4.1	^[[4.05]]	4.0	4.05		
R 20 3.2	2.9 2.9	9.60	033	5.0	^[[5.00]]	5.0	5.00		
R 22 3.2	2.9 2.9	9.86	034	5.3	^[[5.40]]	5.5	5.40		
23 3.2	2.9 2.9	10.12	R 035	6.1	^[[6.05]]	6.0	6.07		
24 4.0	3.7 3.7	3.70	9.88	036	6.5	^[[6.40]]	6.3	6.45	
25a 4.0	3.7 3.7	3.70	10.09	037	6.7	^[[6.70]]	6.7	6.76	
25b	4.0 4.0	10.31	R 038	7.1	^[[7.10]]	7.1	7.20		
26	4.0 4.0	10.12	039	7.7	^[[7.70]]	7.7	7.83		
27a	4.1 4.1	10.30	038a	7.1	^[[7.05]]	7.0	7.15		
27b	4.7 4.7	10.26	038b	7.3	^[[7.30]]	7.3	7.40		
28	4.6 4.6	<u>10.32</u>		040			8.1		
^[[8.10]]	8.1	8.26							
29	5.0 5.0	<u>10.54</u>		041			8.7		
^[[8.70]]	8.7	8.92							
30	5.4 5.4	<u>10.42</u>							
31	6.1 6.12								
32	6.3 6.33								
33	6.9 6.97								
34	7.1 7.20								
35	7.5 7.7	7.60	7.62						
36	8.2 8.37								
Defective? 37									
0 24 <del>33</del> 3.3 3.0									
<del>3</del>									
R 0 25 <del>39</del> 3.6 3.3									
12 15 0 26 <del>40</del> 3.7 3.44									

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Sc P | 3d Exp.

3 w | 1047b

9	3.1	2.8		033	8.3
13	3.1	2.8		034	9.2?
16	4.3	4.0	4.0	4.00	

17	4.3
18	4.7
19	5.0

Defective 20 |

22	5.8
23	5.7
24	6.3
25a	6.5
25b	7.1
26	7.3
27a	7.2
27b	7.5
28	7.5
29	8.2
30	9.0
31	9.5?
024	6.1
025	6.4
025	6.5
027	6.7
028	7.2
029	7.5
030	7.5
031	7.7
032	7.7

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*Jan 9, 1915*

<i>Sc P</i>	<i>3d Exp.</i>	<i>3 w</i>	<i>1047b</i>
9	3.1	2.8	033 8.3
13	3.1	2.8	034 9.2?
16	4.3	4.0	4.0 4.00
17	4.3		
18	4.7		
19	5.0		
20	Defective		
22	5.8		
23	5.7		
24	6.3		
25a	6.5		
25b	7.1		
26	7.3		
27a	7.2		
27b	7.5		
28	7.5		
29	8.2		
30	9.0		
31	9.5?		
024	6.1		
025	6.4		
025	6.5		
027	6.7		
028	7.2		
029	7.5		
030	7.5		
031	7.7		
032	7.7		

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Jan 9, 1915

Sc P [4th Exp with screen (b)

1047 P	Cor. for Order	Diff		
Sc 1	Sc 2			
9 2.9	2.6	2.6	6.74 R	032 8.0 7.88
<del>13 3.1</del>	<del>2.8</del>	<del>2.8</del>	<del>7.39</del>	<del>033 t.k </del>
<del>16 3.7</del>	<del>3.4</del>	<del>3.4</del>	<del>7.70</del>	<del>034 f </del>
<del>17 4.1</del>	<del>3.8</del>	<del>3.9</del>	<del>3.85</del>	<del>3.85 7.65</del>
<del>18 4.0</del>	<del>4.0</del>	<del>7.93</del>		
<del>19 4.7</del>	<del>4.7</del>	<del>7.42</del>		
R 20	5.1	5.09	7.41	
R 22	5.	<del>6</del>	<del>58</del>	7.18
23	5.4	5.	<del>4</del>	<del>39</del> 7.63
24	6.1	6.07	7.51	
Dbi. 25				
26	7.1	7.05	7.07	
Dbi. 27				
28	tk			
29	8.2	8.07	7.47	
30	8.7	8.53	7.29	
31	9.1	8.90		
<del>25a </del>	<del>6.3</del>	<del>6.27</del>	<del>7.52</del>	
25b	7.0	6.96	7.35	
27a	7.1	7.04	7.36	
27b	7.7	7.60	7.36	
024	5.9	5.88		
R 025	tk			
026	6.7	6.67		
R 027	tk			
028	7.3	7.25		
R 029	7.7	7.60	Faint [?] in this [?] are	
030	7.7	7.60	very poor. large + hazy	
031	7.9	7.79		
[[Left Margin] 3	45]			

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Jan 9, 1915

Sc 8 4th Exp with screen (b)

1047 P	Cor. for Order	Diff		
Sc 1	Sc 2			
9 2.9	2.6	2.6	6.74 R	032 8.0 7.88
<del>13 3.1</del>	<del>2.8</del>	<del>2.8</del>	<del>7.39</del>	<del>033 t.k </del>
<del>16 3.7</del>	<del>3.4</del>	<del>3.4</del>	<del>7.70</del>	<del>034 f </del>
<del>17 4.1</del>	<del>3.8</del>	<del>3.9</del>	<del>3.85</del>	<del>3.85 7.65</del>
<del>18 4.0</del>	<del>4.0</del>	<del>7.93</del>		
<del>19 4.7</del>	<del>4.7</del>	<del>7.42</del>		
R 20	5.1	5.09	7.41	
R 22	5.	<del>6</del>	<del>58</del>	7.18
23	5.4	5.	<del>4</del>	<del>39</del> 7.63
24	6.1	6.07	7.51	
Dbi. 25				
26	7.1	7.05	7.07	
Dbi. 27				
28	tk			
29	8.2	8.07	7.47	
30	8.7	8.53	7.29	
31	9.1	8.90		
<del>25a </del>	<del>6.3</del>	<del>6.27</del>	<del>7.52</del>	
25b	7.0	6.96	7.35	
27a	7.1	7.04	7.36	
27b	7.7	7.60	7.36	
024	5.9	5.88		
R 025	tk			
026	6.7	6.67		
R 027	tk			
028	7.3	7.25		
R 029	7.7	7.60	Faint [?] in this [?] are	
030	7.7	7.60	very poor. large + hazy	
031	7.9	7.79		
[[Left Margin] 3	45]			

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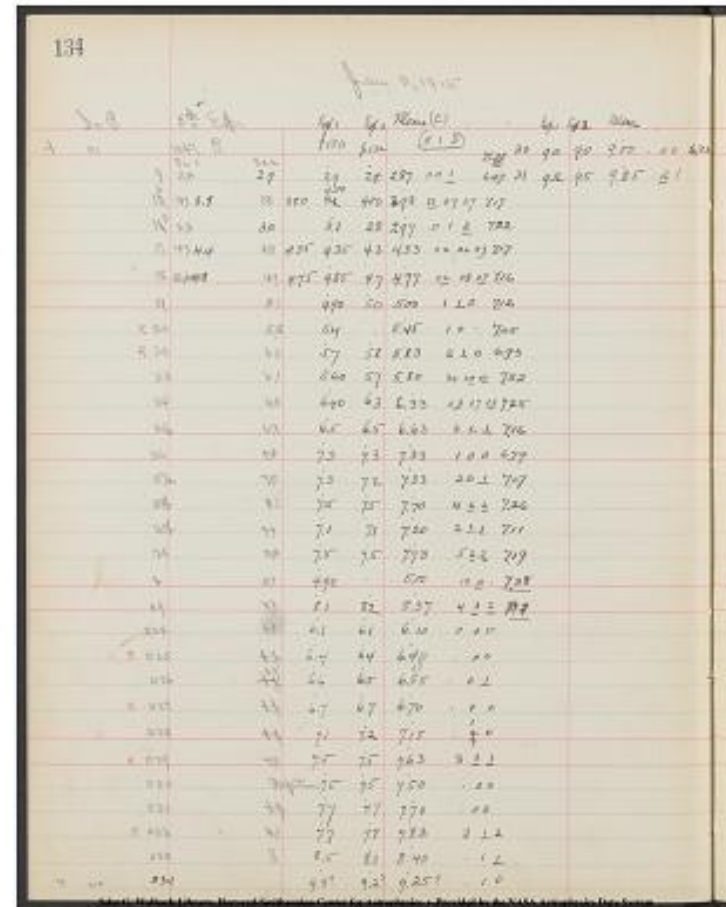
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Jan. 11, 1915

Sc	P	5th Exr.	[Exp. 1]	[Exp. 3]	Mean(C)	[Exp. 1]	[Exp. 3]	Mean
4	00	1047	P	p.130	p.132	513	30	9.0 9.0 9.00 .00 6.82
[Sc1	Sc2]		[Diff.					
9 3.2	2.9 2.9	2.8 2.87	00	1				
6.47	31 9.2	9.5 9.35	.21					
1	<del>3 </del>	<del>b 4.1</del>	3.8 3.8					
3.80	<del>3.1 </del>	<del>4.00 </del>	4.00 3.93	13	07	07	7.17	
1	<del>6 </del>	<del>3 3.3 </del>	3.0 3.1	2.8 2.97	0	1	2 7.22	
17 4.7	4.4 4.3	4.35 4.35	4.3 4.33	02	02	03 7.17		
18 5.1	4.8 4.7	4.75 4.85	4.7 4.77	02	08	07 7.16		
19	5.1 4.90	5.0 5.00	1	1	0 7.12			
R20	5.5 5.4	5.45 1	0	7.05				
R22	6.0 5.7	5.8 5.83	2	1	0 6.93			
23	6.1 5.60	5.7 5.80	30	21	10 7.22			
24	6.3 6.40	6.3 6.33	03	07	03 7.25			
25a	6.9 6.5	6.5 6.63	3	1	1 7.16			
26	7.4 7.3	7.3 7.33	1	0	0 6.79			
27a	7.5 7.3	7.2 7.33	2	1	7.07			
27b	8.1 7.5	7.5 7.70	4	2	2 7.26			
25b	7.4 7.1	7.1 7.20	2	1	1 7.11			
28	8.2 7.5	7.5 7.73	5	2	2 7.19			
	[symbol]		5.1 4.90	5.00 10	10	10	7.38	
29	8.8 8.1	8.2 8.37	4	3	2 7.17			
024	6.1 6.1	6.1 6.10	0	0				
R025	t.f	6.4 6.4	0	0				
026		<del>t.f </del>	<del>6.9 </del>	<del>6.6 </del>	<del>6.5 </del>	<del>6.55 </del>	0	1
R027	t.f	6.7 6.7	0	0				
028	t.f	7.1 7.2	7.15	<del>2 </del>	<del>1 </del>	<del>0</del>		
R029	7.9 7.5	7.5 7.63	3	1				
030	Defective	7.5 7.5	7.50	0	0			
031	t.f	7.7 7.7	0	0				
R032	8.1 7.7	7.7 7.83	3	1	2			
033		<del>8.5 </del>	8.3 8.40	1	1			
4	20	034		9.3? 9.2?	9.25?	1	0	

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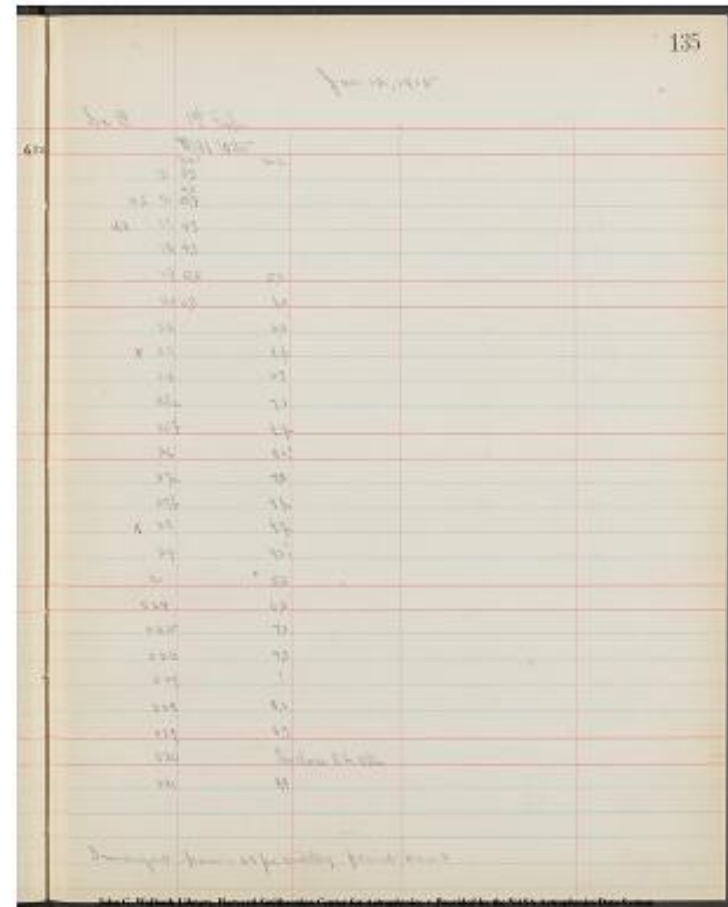


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Jan 12, 1915

Sc P 1st Exp  
6.82 MW 1035  
Sc1 Sc2  
13 3.3  
w.s 16 ~~[Strikethrough]~~ 5.7 ~~[Strikethrough]~~ 4.0  
4.3 17 4.7  
18 4.7  
19 5.5 5.2  
20 6.3 6.0  
22 6.2  
R 23 th  
24 6.7  
25a 7.1  
25b th  
26 8.1?  
27a 7.8  
27b th  
R 28 th  
29 9.2!  
e 5.2  
024 6.2  
025 7.1  
026 7.3  
027 ?  
028 8.1  
029 8.7  
030 too close to be slow  
031 8.9

Images show especially faint ones  
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#44  
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136  
Jan 12, 19, 15

Se P | 2d eth.

MW 1035

se1 se2

13 | 3.1

16 | 3.8

17 | 4.3 3.9

18 | 4.2

19 | 4.8

20 | 5.1

22 | 5.3

R 23 | P lecture

24 | 6.1

25a | 6.3

26 | 4.1

25b | 7.0

27a | 7.1

27b | 7.7

R 28 | Defective

29 | Too close to br. st.

30 | f.

024 | 5.9

025 | 6.5

026 | 6.5 6.7

028 | 7.3

029 | 7.7

030 | 7.7

031 | 8.1

Images here

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13	3.1
16	3.8
17	4.3 3.9
18	4.2
19	4.8
20	5.1
22	5.3
23	P lecture
24	6.1
25a	6.3
26	4.1
25b	7.0
27a	7.1
27b	7.7
28	Defective
29	Too close to br. st.
30	f.
024	5.9
025	6.5
026	6.5 6.7
028	7.3
029	7.7
030	7.7
031	8.1

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#44  
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Jan 12, 1915

[[?]] 4th [[?]]  
 MW 1035  
 Sc1 Sc2

13	2.2		024
16	2.3		025
17	2.6		026
18	2.6		027
19	3.0		028
20	3.2		029
22	3.3		030
R 23	th [[?]]		031
24	3.4		032
25a	[[?]] 3.7		033
25f	[[?]] 4.0	3.7	034
26	4.1	3.7	035
27a	4.0		036
27f	4.2		037
R 28	4.3		038
29	W.S 4. <del>3</del>		039
30	W.S <del>4</del>		040
R 31	W.S <del>4</del>		
<del>5</del>	<del>5</del>		041
32	6.4	0	
33			
R 34	7.7		

Images [[?]]  
 Accidentally broke [[?]] before measures were finished  
 E.P.S.

137

Jan 12, 1915

4th

1035

Sc1 Sc2

13	2.2		024
16	2.3		025
17	2.6		026
18	2.6		027
19	3.0		028
20	3.2		029
22	3.3		030
R 23	th		031
24	3.4		032
25a	3.7		033
25f	4.0	3.7	034
26	4.1	3.7	035
27a	4.0		036
27f	4.2		037
R 28	4.3		038
29	W.S 4. <del>3</del>		039
30	W.S <del>4</del>		040
R 31	W.S <del>4</del>		
<del>5</del>	<del>5</del>		041
32	6.4	0	
33			
R 34	7.7		

Images broke before measures were finished E.P.S.

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 #44  
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Jan 14, 1915

[[3 columned page]]

Sc P | 2d Exp | 3d Exp |

--- | 324 MW | --- |

--- | Sc2 | Sc2 |

13 | 43 | 5.8 |

16 | 5.2 | 7.1 |

17 | 6.1 | 7.7 |

19 | 7.1 | Wr. It | ~~9.3~~ | 8.9 |

20 | 7.8 | F |

22 | 8.0 | --- |

024 | 8.2 | --- |

026 | Scratched. | --- |

025 | 9.3 | --- |

027 | F | --- |

028 | F | --- |

029 | F | ~~8.9~~ |

[[?]] | 7.1 | 9.0 |

--- | Se1 | Se1 |

6 | 3.1 | 3.7 |

8 | 3.2 | 4.1 |

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[[symbol - dot]] Provided by the NASA Astrophysics Data System

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	bc	2d Exp	3d Exp
13	43	5.8	
16	5.2	7.1	
17	6.1	7.7	
19	7.1	Wr. It	<del>9.3</del> 8.9
20	7.8	F	
22	8.0	---	
024	8.2	---	
026	Scratched.	---	
025	9.3	---	
027	F	---	
028	F	---	
029	F	<del>8.9</del>	
[[?]]	7.1	9.0	
---	Se1	Se1	
6	3.1	3.7	
8	3.2	4.1	

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6 46  
8 53  
16 89  
13 97  
17 93

50  
53  
87  
71  
95

140			
J. 140			
Time	Mag	Time	Mag
1. 00	14.00	1. 00	14.00
2. 00	14.00	2. 00	14.00
3. 00	14.00	3. 00	14.00
4. 00	14.00	4. 00	14.00
5. 00	14.00	5. 00	14.00
6. 00	14.00	6. 00	14.00
7. 00	14.00	7. 00	14.00
8. 00	14.00	8. 00	14.00
9. 00	14.00	9. 00	14.00
10. 00	14.00	10. 00	14.00
11. 00	14.00	11. 00	14.00
12. 00	14.00	12. 00	14.00
13. 00	14.00	13. 00	14.00
14. 00	14.00	14. 00	14.00
15. 00	14.00	15. 00	14.00
16. 00	14.00	16. 00	14.00
17. 00	14.00	17. 00	14.00
18. 00	14.00	18. 00	14.00
19. 00	14.00	19. 00	14.00
20. 00	14.00	20. 00	14.00
21. 00	14.00	21. 00	14.00
22. 00	14.00	22. 00	14.00
23. 00	14.00	23. 00	14.00
24. 00	14.00	24. 00	14.00
25. 00	14.00	25. 00	14.00
26. 00	14.00	26. 00	14.00
27. 00	14.00	27. 00	14.00
28. 00	14.00	28. 00	14.00
29. 00	14.00	29. 00	14.00
30. 00	14.00	30. 00	14.00
31. 00	14.00	31. 00	14.00
32. 00	14.00	32. 00	14.00
33. 00	14.00	33. 00	14.00
34. 00	14.00	34. 00	14.00
35. 00	14.00	35. 00	14.00
36. 00	14.00	36. 00	14.00
37. 00	14.00	37. 00	14.00
38. 00	14.00	38. 00	14.00
39. 00	14.00	39. 00	14.00
40. 00	14.00	40. 00	14.00
41. 00	14.00	41. 00	14.00
42. 00	14.00	42. 00	14.00
43. 00	14.00	43. 00	14.00
44. 00	14.00	44. 00	14.00
45. 00	14.00	45. 00	14.00
46. 00	14.00	46. 00	14.00
47. 00	14.00	47. 00	14.00
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49. 00	14.00	49. 00	14.00
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51. 00	14.00	51. 00	14.00
52. 00	14.00	52. 00	14.00
53. 00	14.00	53. 00	14.00
54. 00	14.00	54. 00	14.00
55. 00	14.00	55. 00	14.00
56. 00	14.00	56. 00	14.00
57. 00	14.00	57. 00	14.00
58. 00	14.00	58. 00	14.00
59. 00	14.00	59. 00	14.00
60. 00	14.00	60. 00	14.00
61. 00	14.00	61. 00	14.00
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80. 00	14.00	80. 00	14.00
81. 00	14.00	81. 00	14.00
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83. 00	14.00	83. 00	14.00
84. 00	14.00	84. 00	14.00
85. 00	14.00	85. 00	14.00
86. 00	14.00	86. 00	14.00
87. 00	14.00	87. 00	14.00
88. 00	14.00	88. 00	14.00
89. 00	14.00	89. 00	14.00
90. 00	14.00	90. 00	14.00
91. 00	14.00	91. 00	14.00
92. 00	14.00	92. 00	14.00
93. 00	14.00	93. 00	14.00
94. 00	14.00	94. 00	14.00
95. 00	14.00	95. 00	14.00
96. 00	14.00	96. 00	14.00
97. 00	14.00	97. 00	14.00
98. 00	14.00	98. 00	14.00
99. 00	14.00	99. 00	14.00
100. 00	14.00	100. 00	14.00

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Jan 16, 1915

| Sc B | 6th Exp. | 7th Exp.

MW 324

[4 columned table]

| | Se 1 | Se 2 | Se 1 |

6 | 3.8 | 3.1 |

8 | 4.1 | 3.8 | 3.3 |

13 | 5.9 | 4.2^ | [[Se 2]]

16 | 6.7 | 5.2 |

17 | 7.6 | 6.1 |

19 | 8.9 | 7.2 |

20 | 8.7 | 7.2 |

22 | f | 8.1 |

| | 7.2 |

024 | | 8.3 |

0.25 | | 9.3? |

026 | | f |

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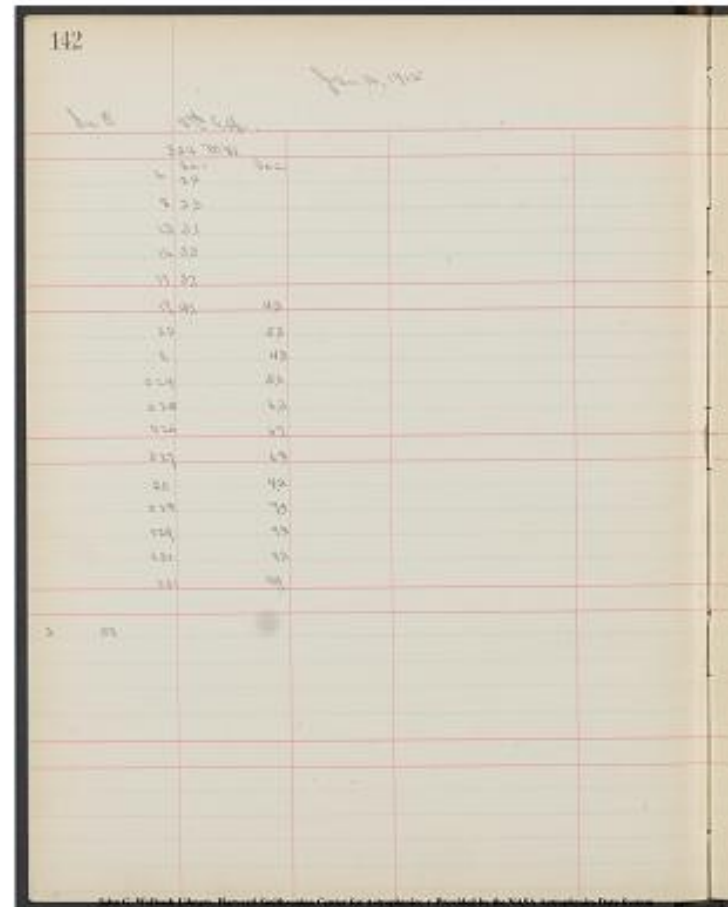
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142

Jan 16, 1915

| Sc B | 8th Exp. |  
324 MW  
[[3 columned table]]  
6 | 2.2^[[Sc 1]] | ^[[Sc 2]] |  
8 | 2.3 | |  
13 | 3.1 | |  
16 | 3.3 | |  
17 | 3.4 | |  
19 | 4.7 | 4.3 |  
22 | 5.2 | |  
2 | 4.3 | |  
0.24 | 5.6 | |  
0.25 | 6.3 | |  
0.26 | 6.7 | |  
0.27 | 6.8 | |  
20 | 4.2 | |  
0.28 | 7.4 | |  
0.29 | 7.8 | |  
0.30 | 8.3 | |  
0.31 | 8.9 | |  
2 50 | | |

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Estimated quality of MW Plates (m5)  
May 22, 1915  
[[2 column]]

MW 82	4
" 108	5
" 86	5
" 111	4
" 107	5
" 106	5
" 109	4
" 112	3 +
" 105	5
" 110	4
" 84	5
" 85	4 <del>?</del> <del>^</del> Broken

MW	Quality
82	4
108	5
86	5
111	4
107	5
106	5
109	4
112	3+
105	5
110	4
84	5
85	4 <del>?</del> <del>^</del> Broken

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144  
June 23, 1915

Se M

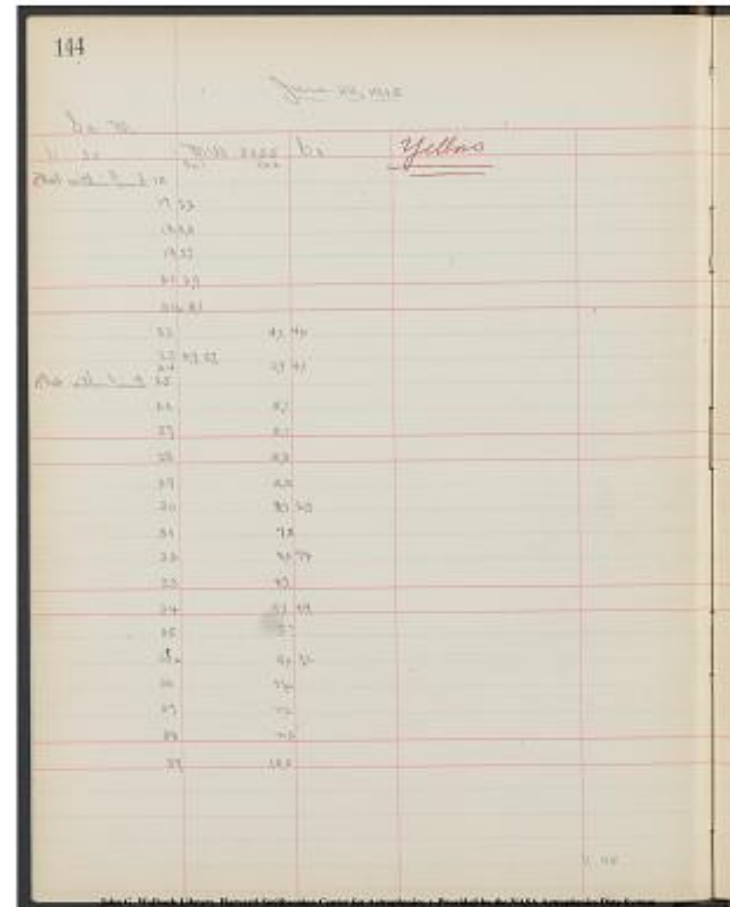
11 30 | MW 2055 | b, | yellow  
(r) not within limit 15 | se1 se2

17 | 2.2  
18 | 2.3  
19 | 2.7  
21 | 2.9  
21a | 3.1

22 | 4.1 | 4.0  
23 | 3.9 3.7  
not within limit | 24 25 | 3.9 | 4.1  
26 | 5.1  
27 | 5.1  
28 | 5.3  
29 | 5.3  
30 | 7.1 | 6.9  
31 | 7.0  
32 | 8.0 | 7.8  
33 | 8.7  
34 | 8.7 | 8.9  
35 | f?  
35a | 9.0 | 9.2  
36 | tk  
37 | n.s  
38 | n.s  
39 | 10.0

11 45

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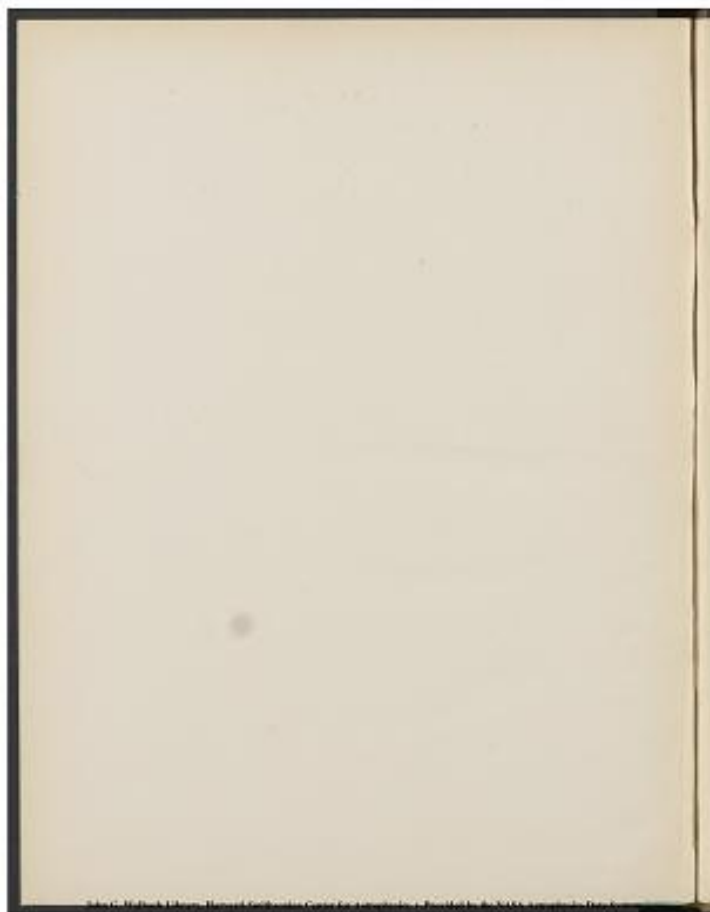
145

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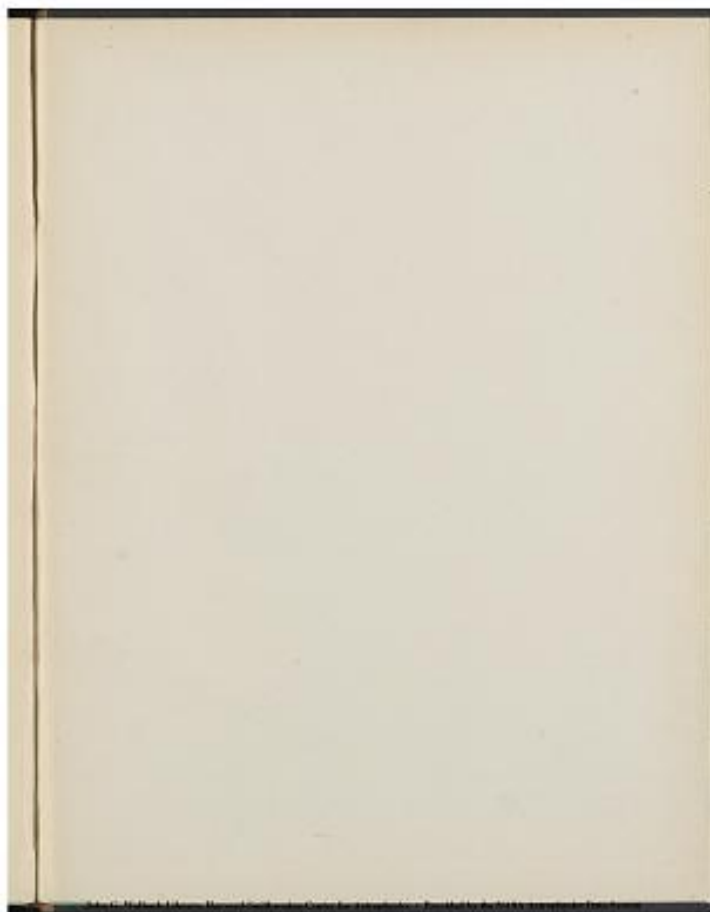
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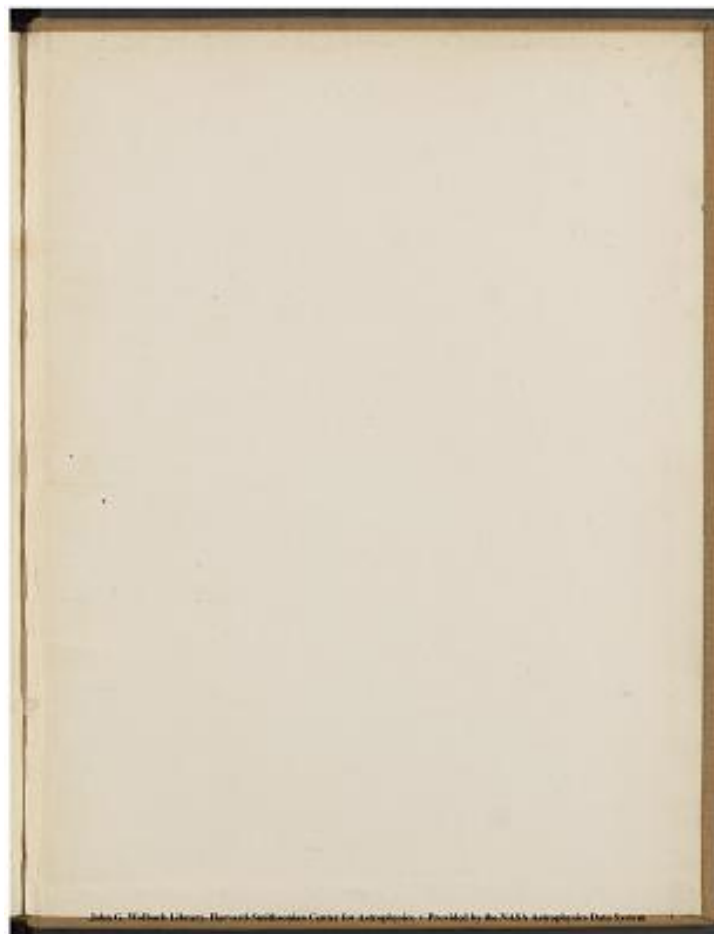
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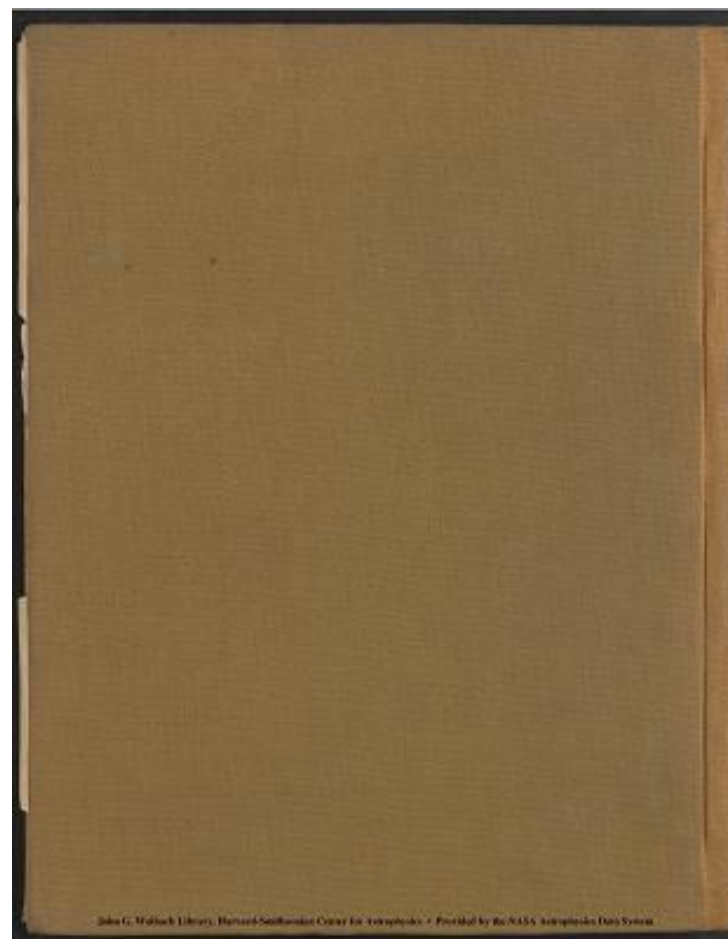
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