

14.9

.10

6397-127

13.23

+0.11

-0.03 } 244

-435

13.62

+0.10

-0.15 } 244

-436

13.45

+0.23

+0.12 } 244

-438

13.20

+0.15

+0.10 } 244

13.95

+0.24

+0.24 } 244

13.18

+0.22

+0.32 } 444

13.68

+0.29

-0.22 } 444

-657

-30

13.98

-0.15

-0.33

-661

13.16

+0.185

+0.19

-447

12.56

{ 12.10

+0.16

+0.14 } 23 29

{ 11.25

+0.17

+0.1444 } 16.5 74

-115 408

19 + 11

23 29

16.5 74



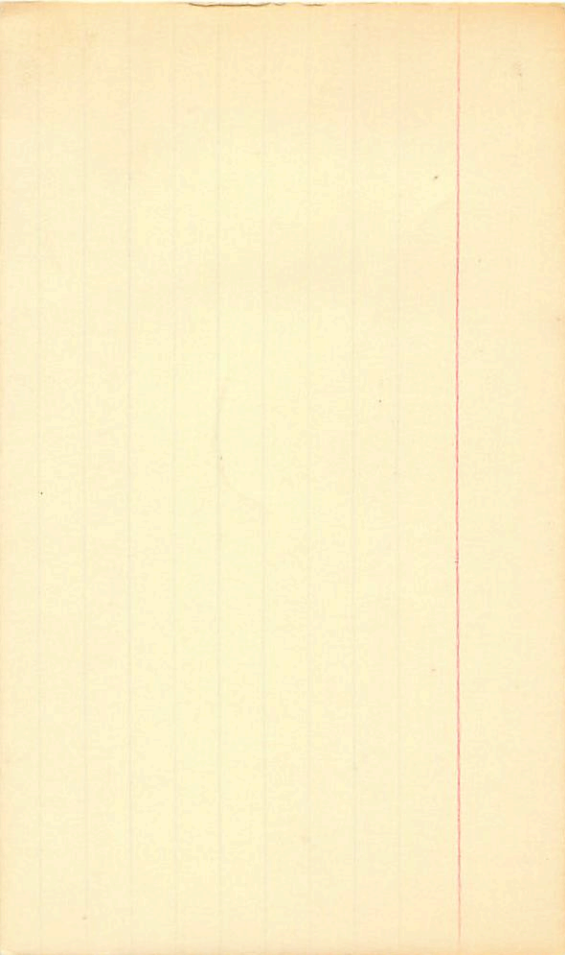
6397-697 13.03 +0.18 +0.14 5 July 67

- 018 13.78 +0.06 -0.04 5 July 67

- 544 13.60 +0.16 0.00 5 July 67

- 690 13.35 +0.23 +0.23 3 July 67

- 212 ^{13.61}
~~12.43~~ +0.21 +0.07 5 July 67



Jul 121-6

227-6

9.92 +0.51 +0.15 19 Aug 69

-53

8.22 +0.16 +0.09 19 Aug 69

-52 9.66 +0.39 +0.14 19 Aug 69

Cont.

6397-113 13.15 +0.18 +0.20 4 Aug 67

-26 13.06 +0.17 +0.24 4 Aug 67

-873 13.38 +0.12 -0.08 4 Aug 67

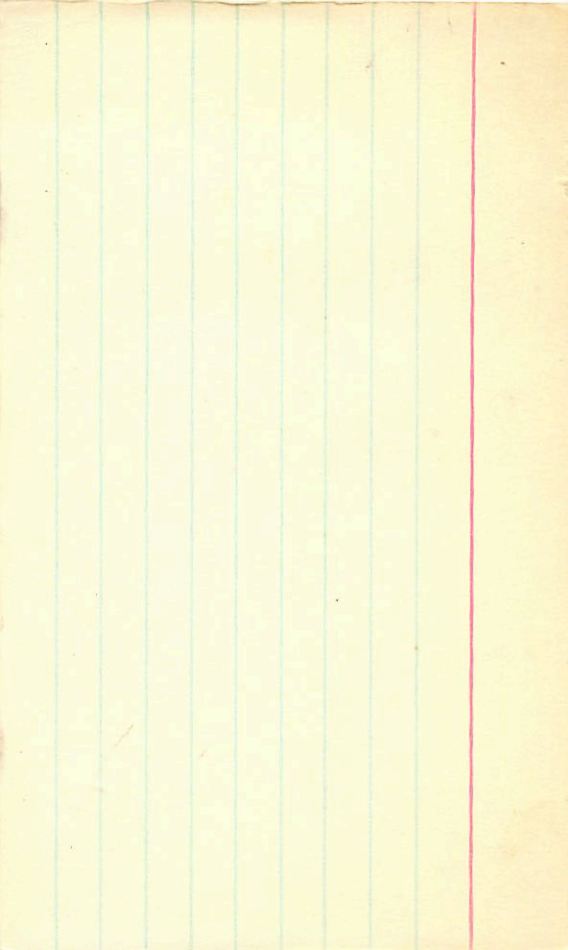
-204 13.30 +0.22 -0.22 4 Aug 67

-215 13.14 +0.17 +0.04 4 Aug 67
-70 18.93 +0.27 +0.24 4 Aug 67
-221 12.57 +0.32 +0.23 4 Aug 67
13.56 +0.21 +0.13 4 Aug 67

295 235

135 "

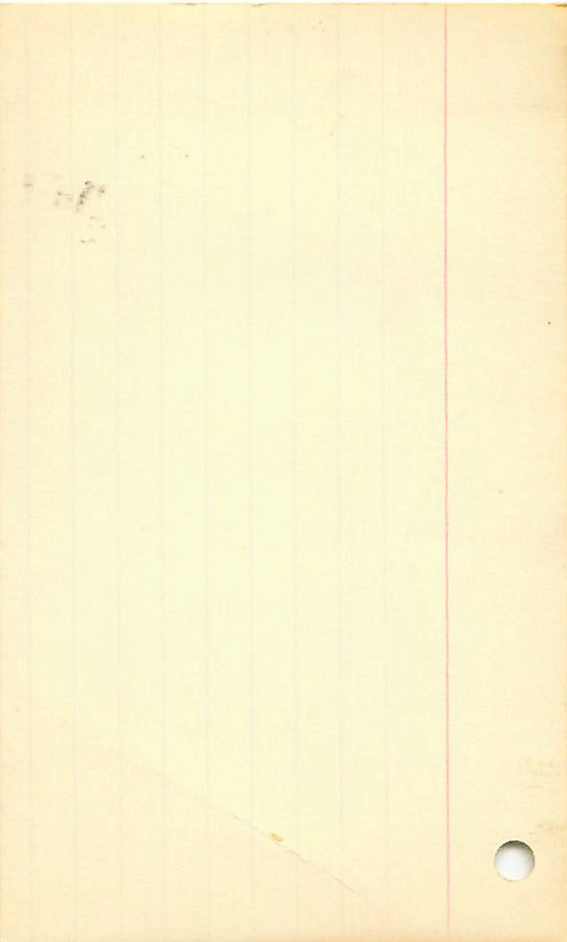
1611-1604	yellow (g)	Dec 22	0.917 ± 0.003
		1 hour Dec 25	0.900 ± 0.005
2237-2255	"	Dec 22	0.685 ± 0.003
	"	1.5 hours	
1962-1962	"	(g)	0.937
	"	40 min	



NR 66067 -30

16.30 +0.00 -0.80

4 July 67 40"



LP9-231

14.54 +0.43 -0.46 15 Apr 66 200'

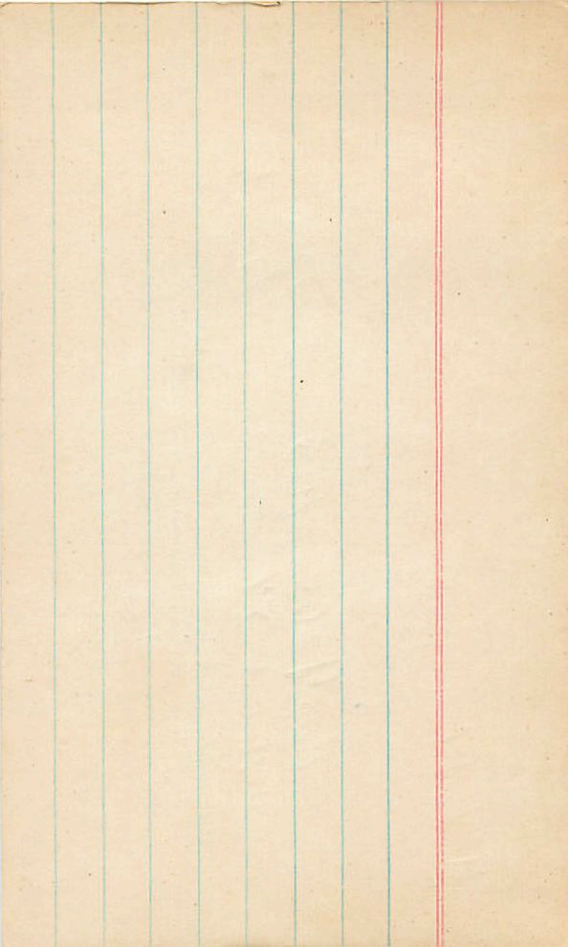
14.48 +0.39 -0.50 16 Apr 66 200"

W #14

173

16.54-65	163	3/25
16.63-54	-	4/1 ✓
16.56	-	5/25
16.54-60	(1.63)	

450



8.32 - 95 1.62 6/23
 8.31 - 98 1.66

Offset

Wen # St. 8.33 - 94 1.61 6/26
 8.34 - 100 1.61

8.34 - 91 1.61

8.32 - 95 1.64

8.32 - 94 1.62

8.33 - 97 1.57

8.33 - 98 1.55

8.34 - 96 1.59

8.27 - 98 1.58

8.30 - 95 1.60

8.35 - 98 1.55 5/4

8.33 - 93 1.60

8.34 - 96 1.56

5/25 6/23 (2)

4/3

6/25

5/26

5/25

+10

W H 6

13.4

14.72 -44

6/25

16.99 -55

3/25

16.70 -35

4/3

wrong?

17.05 -17

4/11

16.94 +67

3/24

wrong

16.03

-45

5/25

16.80

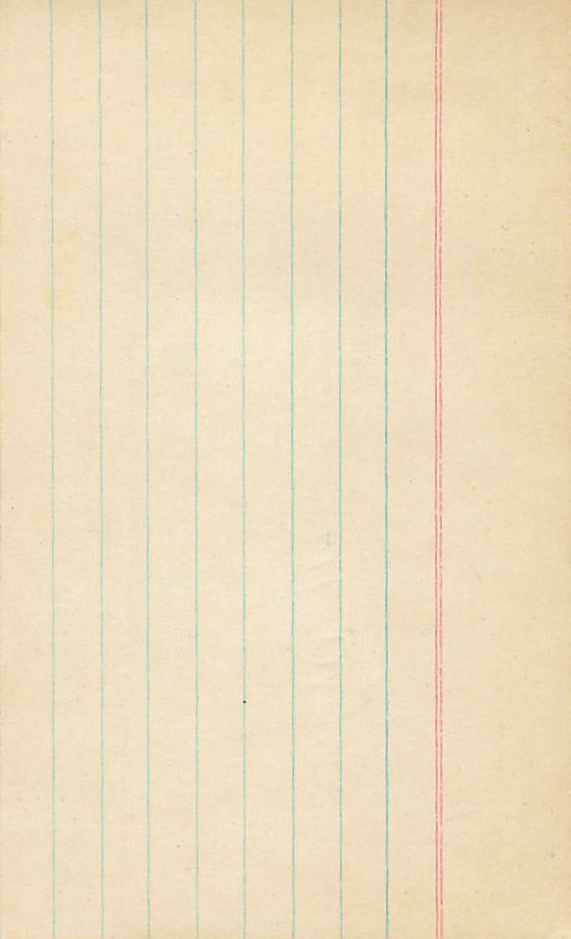
-45

22

W #9

double

16.80 +18 - 3/25



W-497

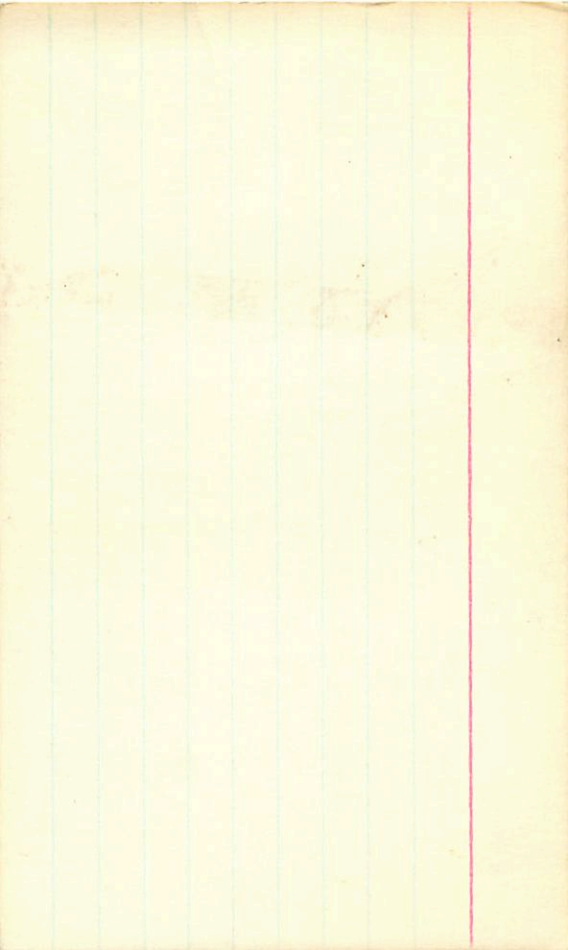
paper

12.48
26
12.22
12.22
12.22

-1.19
1.19
-1.33

12.51	+0.505	5 June 71
12.50	+0.545	30 Apr 69
12.46	+0.50	8 June 69
<u>12.50</u>	<u>+0.50</u>	

13.00	+1.20	25 Apr 69
13.02	+1.22	+0.80) 12 June 69
12.99	+1.20	6 Apr 70
<u>13.00</u>	<u>+1.21</u>	<u>+1.12</u> ③



over

1860

477m rent

0.88 + 0.75571

11.73 + 1.68 20 Oct 71 1248

10.85 + 0.80 25 Oct 71

11.81 + 1.66 + 1.56 24 Oct 71 1249

10.71 + ~~0.75~~ 10 Oct 71

11.75 + 1.70 - 30 Jan 72 1250

10.82 + 0.79 4 Oct 71

11.76 + 1.60 - 3 Jan 72 1320

(10.73 + 0.75 21 Oct 71)

11.59 + 1.65 + 1.83 21 Jan 72 1338

10.82 + 0.805 24 Oct 71

11.69 + 1.69 - 30 Jan 72 1547

10.71 + 0.82 14 Jan 72

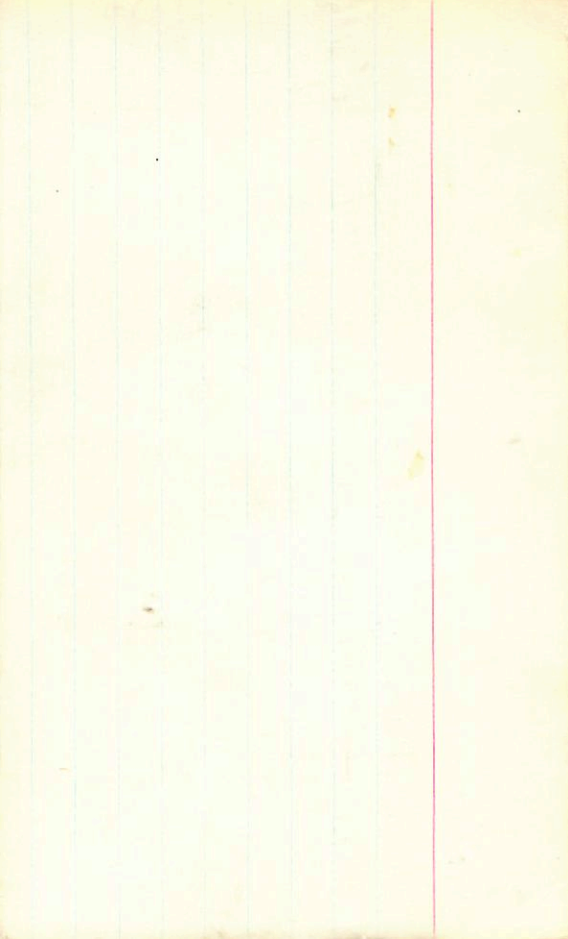
Ch: (10.71) + 0.72 24 Jan 72

11.67	+11.64 -	21.0572	10.73	+0.785	
11.46	+11.65	+11.525	23.0672	10.72	+0.765
11.56	+11.59	+12.01	28.0672	10.59	+0.715
11.99	+11.66	+11.855	28.0672	10.74	+0.815
11.92	+11.65	+11.62	22.0672	10.64	+0.81
			24.0672	10.86	+0.808
			24.0672	10.92	+0.808

Vant's (cont)

11.79	+1.70	+1.94	27 Aug 23
12.41	+1.76	+1.76	29 Aug 23
12.00	+1.67	—	13 Sept 23
11.89	+1.69	+1.94	17 Sept 23
11.82	+1.65	+1.92	17 Oct 23

11.11	+1.005	30 Aug 23
11.14	+0.96	3 Sept 23
10.77	+0.86	5 Oct 23
10.79	+0.88	18 Sept 23
(10.75	+0.855	14 Oct 23
10.72	+0.855	13 Oct 23



#7/6pm

12.01 +1.855 +2.0 27 Aug 73

11.82 +1.79 +2.08 29 Aug 73

12.02 +1.77 - 10 Sept 73

11.93 +1.77 +2.03 17 Sept 73

11.95 +1.77 +2.095 17 Oct 73

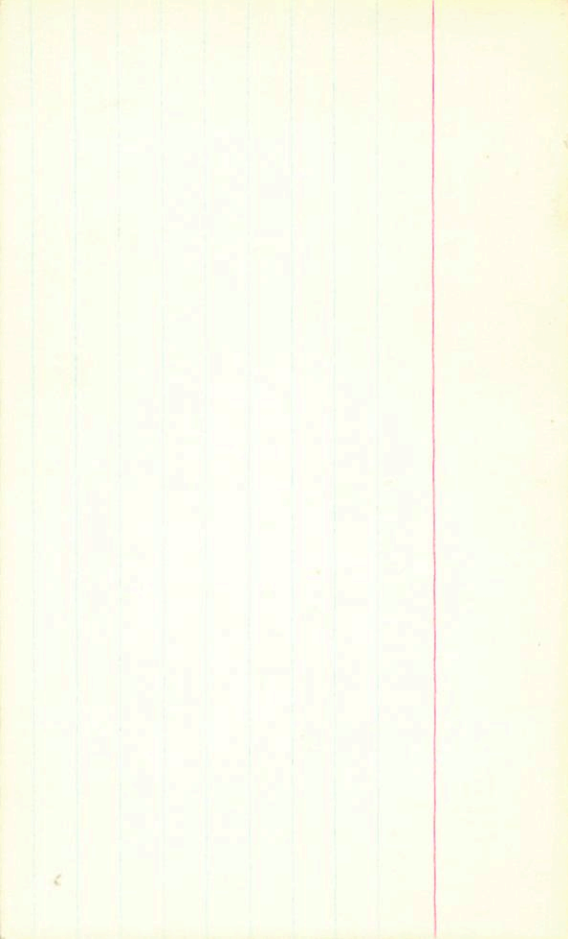
10.64 +0.465 30 Aug 73

10.64 +1.02 16 Sept 73

10.61 +1.015 18 Sept 73

(10.67 +1.02 14 Oct 73)

(10.61 +0.995 16 Oct 73)



W15m Van 27

12.21	+1.82	-	30 sec
12.03	+1.79	+2.01	24 sec
11.96	+1.70	-	30 sec
11.85	+1.60	-	3 sec
11.65	+1.72	+2.19	21 sec
11.64	+1.77	-	30 sec
11.53	+1.69		

turn

10.70	+0.98	5 sec
10.53	+1.05	23 sec
10.85	+1.05	25 sec
10.70	+0.95	10 sec
10.79	+1.05	4 sec
10.52	+0.88	24 sec
10.63	+0.93	29 sec
10.55	+0.88	19 sec
(10.64)	+0.86	31 sec

11.86 +1.70 - 216d72

10.76 +0.555 226d72

11.47 +1.76 +2.05 296d72

10.79 +1.00 236d72

11.53 +1.64 +2.05 206d72

10.76 +1.00 306d72

11.81 +1.77 +2.07 286d72

10.72 +1.00 126d72

1537

~~10.56 +0.44 226d72~~

10.67 +0.43 246d72

10.68 +0.455 296d72

~~13.82~~ +1.24 - 13 Sept 73

12.92 +1.255 +0.85 17 Sept 73

11.07 +1.275 +0.80 18 Sept 73

17 Oct

10.69²

11.49 +1.84 30 Aug⁷³

11.50 +1.86 3 Sept 73

11.07 +1.705 16 Sept 73

(9.94) +1.645 18 Sept 73

9.92 +1.165 14 Oct 73

9.92 +1.185 13 Oct 73

9.36 +0.965 18 Nov 73

10.99 +1.65 4 Jan 74

822

47 Jan - 1943

9.73 +10.55 18 Oct 71

11.06 +1.54 +1.07 20 Oct 71

9.86 +1.13 23 Oct 71

11.16 +1.61 +1.18 24 Oct 71

9.82 +1.15 25 Oct 71

10.00 +1.625 +1.065 21 Oct 72

11.17 +1.26 1 Dec 71

10.28 +1.64 +1.14 24 Oct 72

11.37 +1.29 4 Dec 71

12.47 +1.62 +0.93 2 Dec 72

9.19 +0.74 23 Oct 72

13.88 +1.33 +1.655 28 Dec 72

8.78 +0.735 23 Oct 72

9.26 +0.725 24 Oct 72

9.22 +0.80 30 Oct 72

10.44 +1.475 1 Dec 72

11.23 +1.29 29 Dec 72

1085 +1265 240071

106

100

114

47 Ju-12

1063 +1116 180071

12.11 +165 +1.73 200071

~~10.25 +1.19 230071~~

12.14 +165 +1.73 240071

10.70 +1.17 250071

12.48 +1.54 - 30 260071

~~10.22 +1.25 180071~~

12.51 +1.58 +1.54 220071

11.04 +1.30 400071

12.14 +1.52 - 30 270071

10.75 +1.27 240071

47 Ju-11

11.06 +0.50 180071

12.15 +1.67 +2.21 200071

~~10.25 +0.95 230071~~

12.14 +1.64 +2.01 240071

10.97 +0.92 250071

11.81 +1.72 - 30 260071

10.73 +0.85 180071

11.43 +1.65 +2.04 220071

10.84 +0.83 400071

11.84 +1.58 - 30 270071

10.75 +0.81 240071

13.7

13.7

14.1

10.57 10.77 10.77

~~10.59 10.79 10.79~~

10.80 10.80 24 Oct 72

10.83 10.85 30 Aug 72

10.77 10.88 16 Sept 72

10.74 10.85 18 Sept 72

10.84 10.90 14 Oct 72

10.78 10.89 13 Oct 72

10.68 10.84 13 Oct 72

10.96 10.90 4 Jan 74

12.03 11.745 12.18 27 Aug 72

11.50 11.68 12.00 29 Aug 72

12.07 11.65 - 13 Sept 72

11.91 11.67 12.045 17 Sept 72

11.68 11.67 11.985 17 Oct 72

47 June 1911

Bar

→

7499' 2
~~10.77~~

10.80 + 0.80 24 Dec 72
10.77 + 0.80 24 Dec 72

12.15 + 1.67 + 2.24 20 Dec 71

11.06 + 0.55 18 Dec 71

12.14 + 1.64 + 2.01 24 "

10.47 + 0.425 25 "

(11.81 + 1.72 - 30 Nov 71)

(10.73 + 0.85 1 Dec 71)

11.53 + 1.65 + 2.09 22 Dec 71

10.84 + 0.835 4 Dec 71

11.84 + 1.58 - 3 Jan 72

10.78 + 0.815 24 Dec 71

11.81 + 1.62 + 2.16 24 Jan 72

10.89 + 0.86 24 Dec 71

11.50 + 1.67 - 30 Jan 72

10.78 + 0.79 19 Jan 72

11.61 + 1.65 - 31 Jan 72

(10.86) + 0.795 31 Jan 72

11.59 + 1.645 + 2.15 24 Dec 72

10.71 + 0.785 2 Dec 72

11.54 + 1.62 + 2.14 2 Dec 72

10.72 + 0.77 28 Dec 72

11.73 + 1.67 + 2.11 28 Dec 72

10.72 + 0.745 28 Dec 72

47-Van 12

11.77 +1.71 +1.97 20 Oct 71

11.90 +1.56 +1.98 24 Oct 71

11.91 +1.68 +1.875 21 Jan 72

12.07 +1.715 - 30 Jan 72

10.90 +0.72 25 Oct 71

~~11.17 +1.76 1 Oct 71~~

10.81 +0.72 1 Oct 71

~~10.82 +0.705 6 Oct 71~~

10.98 +0.76 24 Oct

11.00 +0.815 24 Nov

10.99 +0.78 19 Jan 72

(11.05) +0.85 31 Jan 72

11857 + 1163 - 216472

10.57 10.775 306472

1186 + 1161 - 216472

~~10.69~~ ~~10.775 306472~~

1204 + 1159 + 1187 216472

10.89 10.725 216472

1169 + 1162 + 1153 216472

10.75 +1.20

(R.S.D) = 1.18

90 days

10.64
10.31
15.3

~~top~~
Bottom of 2

10.80 +1.195 24 Dec 72
10.83 +1.245 29 Dec 72

471 Ave - 12

12.11 +1.65 +1.73 20 Oct 71 12.45

12.14 +1.66 +1.73 24 " 12.49

12.48 +1.54 - 30 Nov 12.56

12.51 +1.58 +1.59 22 Dec 71 13.08

12.19 +1.52 - 3 Jan 72 13.20

12.13 +1.585 +1.68 21 Jan 72 13.38

12.14 +1.61 - 30 Jan 72 13.47

12.06 +1.67 - 21 Oct 72

12.05 +1.67 +1.68 29 Oct 72

12.09 +1.58 +1.68 2 Dec 72

12.24 +1.58 +1.51 28 Dec 72

10.63 +1.16 18 Oct 71

10.70 +1.17 25 Oct 71

11.04 +1.30 4 Dec 71

10.75 +1.27 24 Dec 71

10.70 +1.19 19 Jan 72

(10.68) +1.175 31 Jan 72

10.67 +1.18 22 Jan 72

10.79 +1.16 28 Jan 72

10.69 +1.165 30 Oct 72

10.64 +1.20 1 Dec 72

12.21 +1.70 +1.66 27 Aug 73

12.13 +1.65 +1.56 29 Aug 73

12.51 +1.64 - 13 Sept 73

12.32 +1.64 +1.56 17 Sept 73

12.35 +1.58 +1.51 17 Oct 73

10.67 +1.175 3 Oct 73

10.81 +1.255 16 Sept 73

10.77 +1.265 18 Sept 73

10.78 +1.295 14 Oct 73

10.76 +1.29 13 Oct 73

10.85 +1.285 18 Nov 73

10.75 +1.20 19 Jan 74

Wanted 9

10.12 +4.68 - 21 May 73

10.16 +4.57 - 27 Jun 73

248027 +4.59 - 30 Jul 73

10.80 +4.88 - 27 Dec 72

10.50 +4.87 - 17 Jan 73

10.67 +4.91 - 21 Jan 73

10.51 +5.09 - 3 Apr 73

10.38 +4.91 - 11 Apr 73

10.30 +4.70 - 20 Apr 73

10.24 +4.75 - 22 Apr 73

10.24 +4.01 - 9 May 73

10.23 +4.69 - 17 May 73

10.18 +4.69 - 19 May 72

5.7 288

Our

8.36

8.32

9.29

8.19

(8.06

8.20

8.17

8.36

8.32

9.29

8.19

(8.06

29

11.0

29

11.0

29

11.0

29

11.0

29

11.0

29

2484

-37 11.10 +1.675 +1.69 20 40 22

10.17 +0.725 24 22

-14

10.98 +0.615 24 22

-56

11.05 +0.61 24 22

cont

2489-68

10.56 + 4.88 - 29 June 74

10.57 + 4.89 - 28 July

10.53 + 4.85 - 8 Aug 74

10.53 + 4.83 - 11 Aug 74

~~10.24 + 4.69~~

10.31 + 4.54 - 14 Mar 74

10.05 + 4.68 - 19 May 74

(8.05 + 1.11) 6 Mar 74

8.10 + 1.20 Mar 74

8.03 + 1.18 16 Mar 74

6000

120 d

3293-24

73
13mg

5.91 +0.915

1420

17mg 73

7.28 +2.035 +2.17 17mg 73

5.98 +0.91

15mg 73

7.27 +2.075 +2.154 15mg 73

22mg 73 5.95 +0.925

27 June 73

(7.22 +2.03 +2.00) 27 June 73

25 July 73 5.90 +0.91

3 July 73

(7.29) +2.00 +2.22 3 July 73

28 July 73 5.95 +0.89

2 July 77

7.24 +2.045 +2.26 27 July 73

7.12 +2.00 +2.15 29 June 74

50174 5.83 +0.925

7.20

+2.03 +2.22 25 July 74

6mm 74 5.94 +0.905

7.20

+2.045 +2.17 112 July 74

7mm 74 5.78 +0.91

7.15

+2.06 +2.14 9 March 74

7mm 74 5.78 +0.91

7.18

+2.035 +2.165 14 March 74

737 7.42 +2.03 +2.15 30 May 70
~~7.50 +2.00 +2.13 29~~

200

NGC 3293-21

10 34 -58 W

6554 7.44 +2.00 +2.27 3 Dec 69

656 7.26 +2.16 +2.23 31 Jan 70

657 7.41 +2.04 +2.11 11 Mar 70

660 7.82 +2.01 +2.20 5 Apr 70

683 7.41 +2.07 +2.24 6 Apr 70

686 7.42 +2.02 5 +2.25 11 Apr 70

705 7.52 +2.03 5 +2.21 5 28"

921 7.54 +2.02 5 +2.20 14 Apr 70

725 7.52 +2.02 +2.18 15 May 70

735 7.47 +2.04 5 +2.15 28 May

6.10 +1.02 2 Dec 69

6.19 +1.18 13 Jan 70

~~5.73~~ +1.05 27 Jan 70

5.63 +1.01 5 12 Mar 70

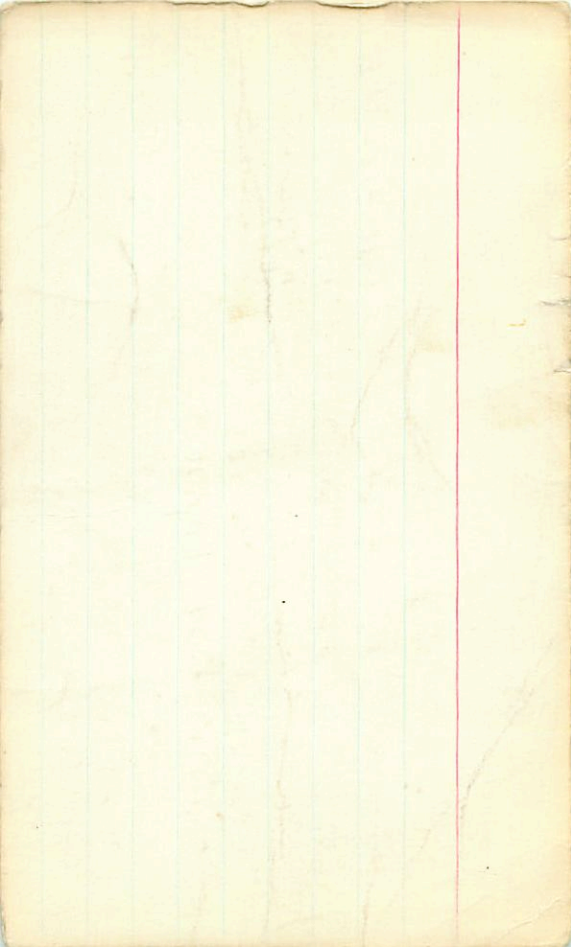
5.85 +1.03 4 Apr 70

5.85 +1.13 7 Apr

5.91 6.46 +0.98 11 May

5.78 6.33 +0.64 27 May

5.64 6.24 +0.99



(Cont)

over

329321

7.35 2.00 +2.215 15 Jan 71

7.33 4.99 +2.16 14 Mar 71

7.33 4.99 +1.98 28 Mar 71

7.42 +2.02 +2.26 7 Apr 71

7.50 12.00 +2.13 22 May 71

7.50 41.985 +1.89 31 Dec 71

7.52 +2.02 +2.24 21 Jan 72

7.30 +2.05 +2.37 1 Mar 72

7.22 +2.09 +2.29 20 Apr 72

7.31 +2.01 +2.25 17 May 72

6.01 +0.975 21 Dec 71

5.96 +0.98 12 Mar 72

6.02 +0.98 14 Mar 72

6.16 +0.99 23 May 71

6.06 +1.01 5 Jun 71

6.08 +1.01 29 Dec 75

5.95 +0.98 26 Jan 72

5.92 +0.945 3 Mar 72

5.91 +0.955 19 May 72

6.14 +0.965 25 Jun 72

7.37 +1.99 +2.14 21/Jan 72

51/Jan 5-54 10.535

23/Jan 5-84 10.42 279

16729.18 +2.05 +2.36 20/Jan 72

5.84 +0.43 8/Jan 73

16747.18 +2.04 +2.23 27/Jan 72

5.73 +0.89 14/Jan 73

17007.21 +2.01 (+2.08) 17/Jan 73

5.41 +0.88 12/Jan 73

17004 7.24 +2.035 +2.25 21/Jan 73

5.96 +0.415 13/Jan 73

1733 7.20 +2.02 +2.17 19/Jan 73

5.58 +0.41 14/Jan 73

1773 7.13 +2.045 +2.09 31/Jan 73

1774 7.09 +2.07 +2.20 8/Jan 73

1784 7.13 +2.05 +2.10 11/Jan 73

1784 7.12 +2.07 +2.23 13/Jan 73

1814 7.32 +2.02 +2.13 9/Jan 73

8 41 40 -47/07

*cl

37
1.41

+

1205 +1.78 +2.04 2422070

1044 1.41 1.77

37

74

37

58
45

11.03 +0.81

16.98 +0.745 27220

1102 +0.765 24220

11.01
+0.745

+0.772

49

10.24

N + d

X

12.03 1.46 +1.54 24 Nov 70

11.22 +0.59

11.28 +0.585 27 Nov 70

11.31 +0.615 29 Nov

11.26 +0.595

26
30 5

10.52

38
10.14

47
96

11.42

Clintonville N-stn

11.90 +4.31 - 24 Nov 70
 11.85 +3.54 - 29 Nov 70
 11.90 +4.36 - 1 Jan 71
 11.85 +4.45 - 15 Jan 71
 11.53 +4.10 - 14 Mar 71
 11.61 +4.14 - 7 Apr 71
 11.95 +4.14 - 28 May 71
 11.97 +4.14 - 22 Jun 72
 11.79 +4.04 - 1 Aug 72

9.45 +1.24 (2)
 9.59 +1.86 (1)
 9.43 +1.35 (1)
 9.30 +1.30 (2)
 9.33 +1.29 (1)
 9.26 +1.28 (2)

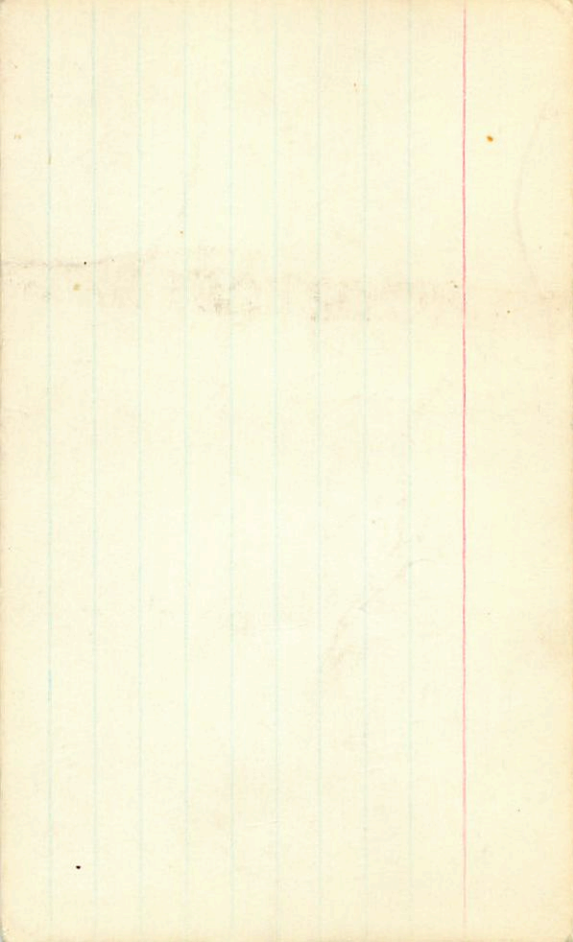
9.34 +1.25 28 Nov 70
 9.56 +1.23 29 Nov 70
 9.59 +1.36 31 Dec 70
 9.43 +1.35 21 Mar 71
 9.29 +1.33 12 Mar 71
 9.32 +1.28 28 Mar 71
 9.33 +1.24 14 Apr 71
 9.51 +1.21 23 May 71
 9.56 +1.33 5 Jun 71
 9.56 +1.34 5 Jun 71

Clinton (Cont)

N #

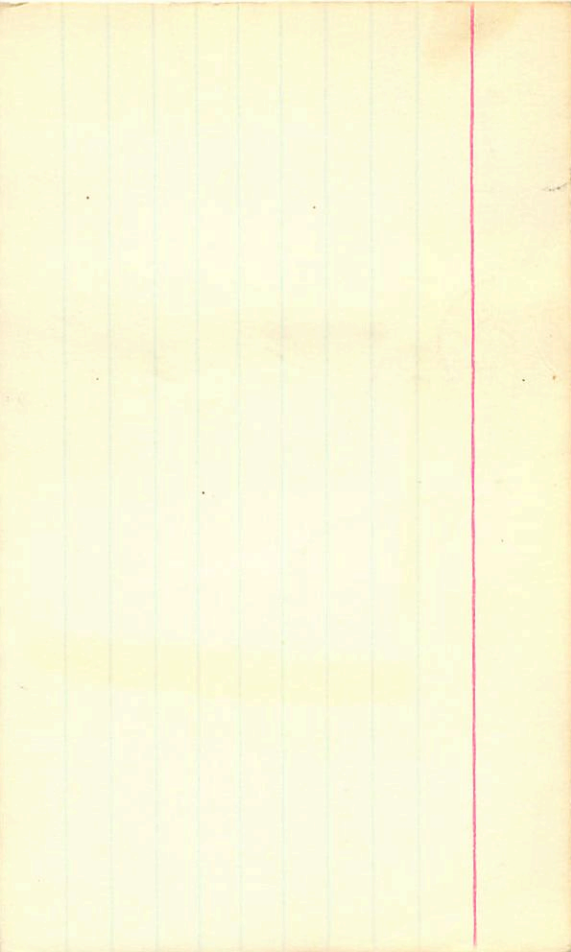
11.87 +4.14 - 22 Jan 72
11.79 +4.04 - 13 Jan 72
11.63 +4.10 - 20 May 72
11.57 +3.9 - 17 May 72
11.84 +4.05 - 20 Dec 72
11.84 +3.99 - 28 Dec 72
12.00 +4.16 - 4 Jan 73
11.86 +4.26 - 21 Jan 73
11.77 +4.37 - 19 Feb 73
11.73 +4.13 - 31 Mar 73
11.85 +4.31 - 3 Apr 73
11.76 +4.29 - 14 May 73

9.44 +1.36 29 Dec 71
9.36 +1.36 24 Jan 72
9.44 +1.38 8 Jan 72
9.30 +1.31 18 May 72
9.39 +1.36 1 Apr 73
9.64 +1.35 12 Apr 73
9.56 +1.36 21 Apr 73
9.40 +1.32 5/13 May 73
9.56 +1.31 5/18 May 73
9.47 +1.29 5/22 May 73



C47-255 04 30 25 +17 40.5 13.95-+0.33-0.64

13.01	+0.99	27 dec
(13.44)	+1.035	17 dec 1968
13.01	+0.925	25 " "
13.01	+0.98	



130705

424 33.8

1467

$$A = 69(2)$$
$$B = 60$$

59(2)

1755

~~6461~~

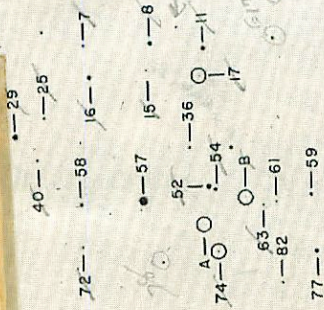
82(1)

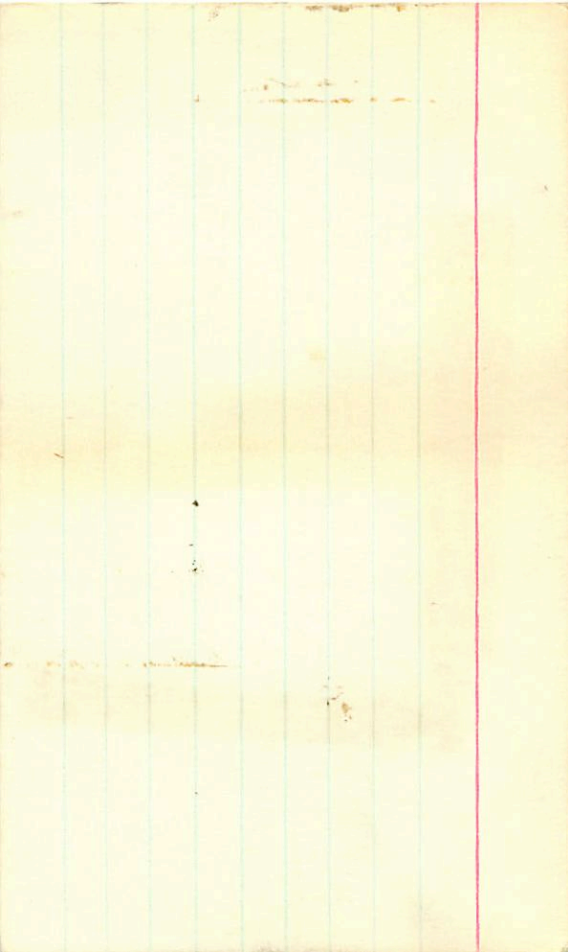
51761

11817

(1) 77

46





7142 - ✓

13.43 + 1.36 - 26 My 63 200°

VB I

1871-1

6.83 +0.11 - 745

6.78 +0.12 -0.73 4Apr 62 60'

6871-453 Cey

8.27

13"

8.27-44

8.27 +0.20 -0.62 4 Apr 62 60"

8.31 +0.19 -0.64 26 June 60"

8.29 +0.20 -0.64 27 " "

6871-8448 Lyr

0.66

6.10¹⁷

7.96 +0.40 -0.55 4 Apr 62 60'
8.30 +0.39 -0.53 27 June 62 60"

6871-2

7.29 +25 -62 5

7.28 +0.25 -61 4 Apr 62 60'

~~7.32 +0.22 -0.62 26 June 60"~~

~~7.29 +0.25 -~~

7.32 +0.22 -0.62 26 June 60"