



A Program of ASTM International

Test Monitoring Center

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MEMORANDUM: 15-004

DATE: February 12, 2015

TO: EOWT Surveillance Panel

FROM: Michael T. Kasimirsky

SUBJECT: Reference Oil 79 Target Update

At the January 12, 2015 EOWT Surveillance Panel Teleconference, the panel approved a motion to introduce reference oil 79 into the calibration system, based upon the data presented at that meeting. As part of this motion, the Surveillance Panel also agreed to update the test targets once 20 data points are available.

The updated test targets are shown in the following table:

Reference Oil 79						
WT%	N	Mean	Std Dev	K	Target Range	
0.6	21	16.67	6.95	1.96	3.04	30.30
1.0	20	14.09	6.38	1.96	1.59	26.60
2.0	21	11.19	8.59	1.96	-5.65	28.04
3.0	21	9.40	7.79	1.96	-5.88	24.68

Note that the upper and lower limits shown in the “Target Range” block are the official test targets for the EOWT test; the target mean and standard deviation are shown for information purposes only. These new targets are effective on February 23, 2015.

In addition, the motion stipulated that the targets will be updated and frozen, based upon all data received by July 15, 2015, and these final targets will be effective on July 31, 2015.

Plots of the initial test targets, the updated test targets, the final test targets used for reference oil 78-2, and the individual data points used to calculate the targets are shown on the following pages. A fourth lab, which was not part of the initial target data, contributed data towards these test targets. There appears to be a significant laboratory bias in this new data, which greatly increased the size of the target range compared to the initial test targets.

MTK/mtk

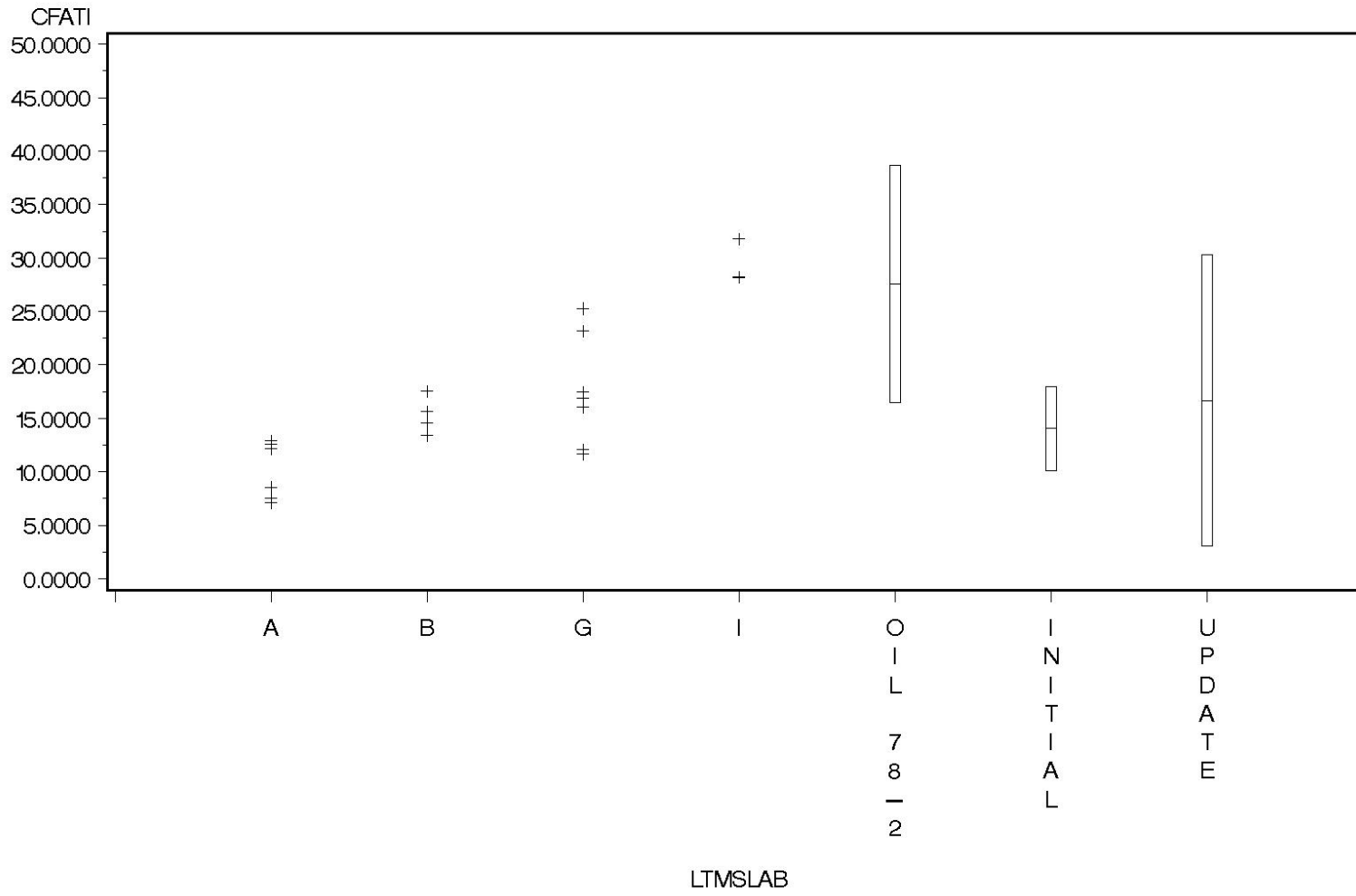
c: <ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/memo/mem15-004.mtk.pdf>

Distribution: email

EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

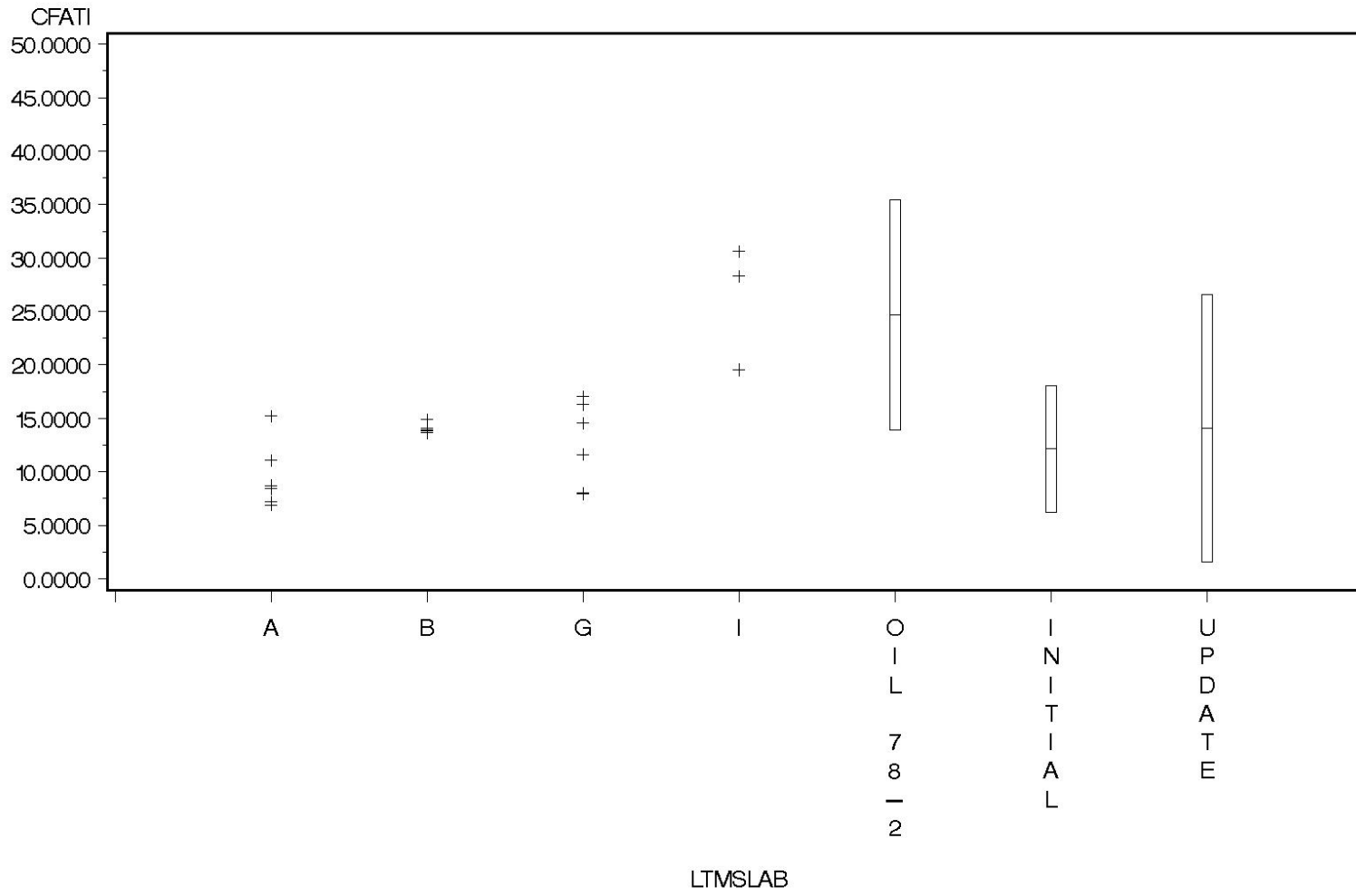
Change in Flowrate Average, 0.6% Water Concentration



EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

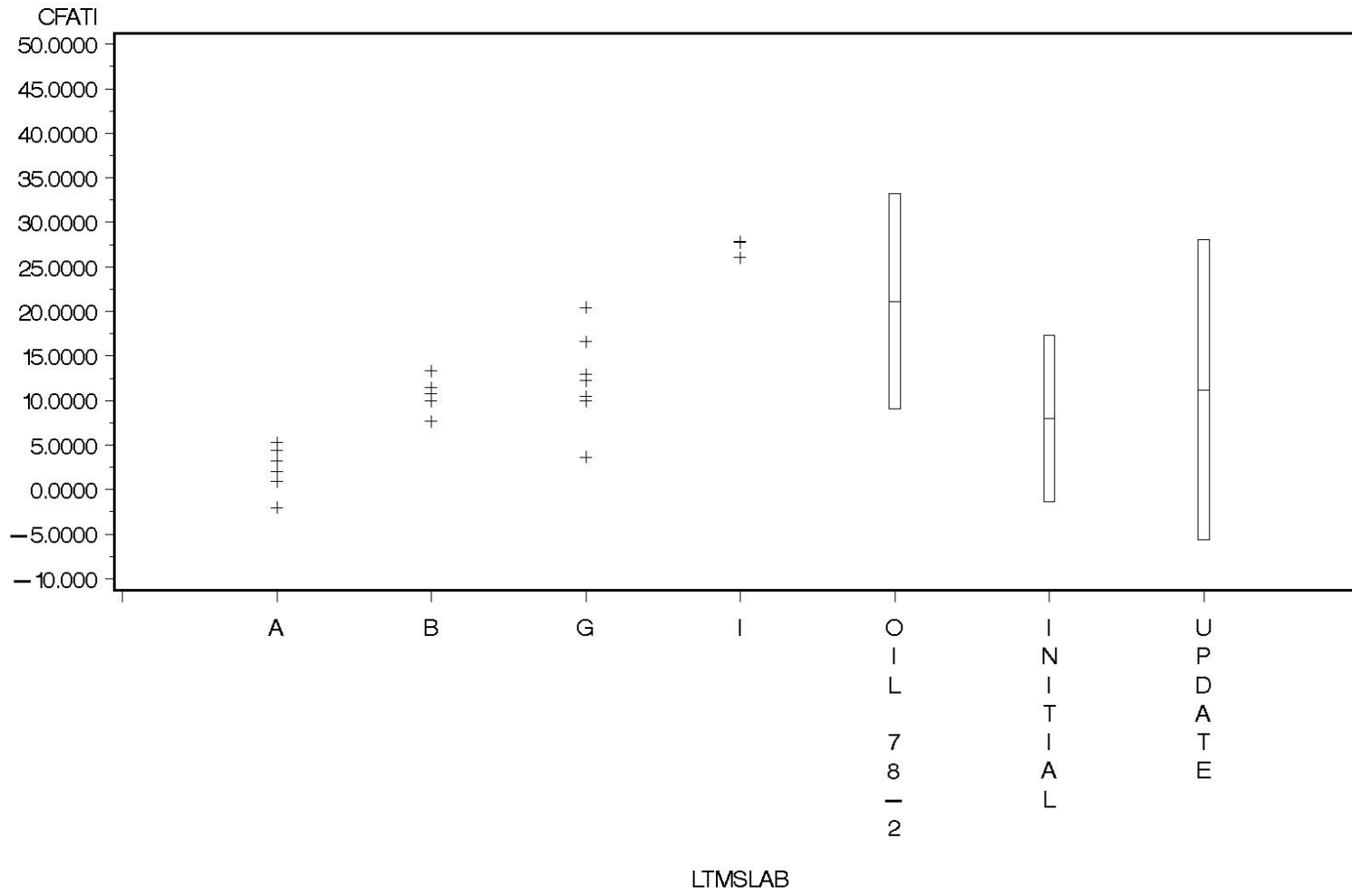
Change in Flowrate Average, 1.0% Water Concentration



EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

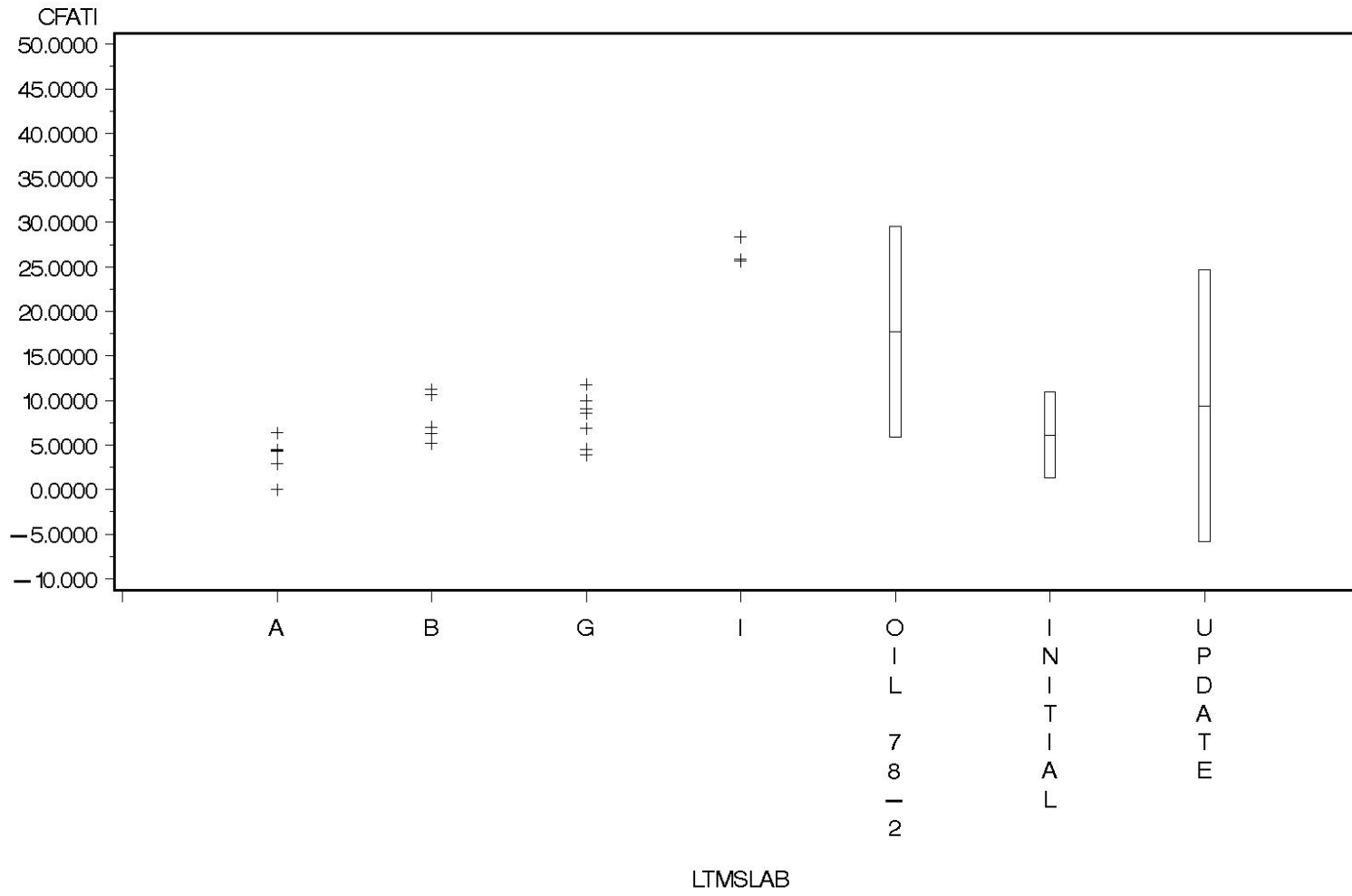
Change in Flowrate Average, 2.0% Water Concentration



EOWT Reference Oil 79

Test Target Data Set and Acceptance Bands

Change in Flowrate Average, 3.0% Water Concentration



TESTKEY	LAB	IND	VAL	DATE	TIME	SPECIAL	CF1_R001	CF2_R001	CFA
105587-EOWT	A	79	AG	20141231	13:12	0.6	16.67	9.09	12.88
105591-EOWT	A	79	AG	20141231	13:21	0.6	10.2	14.89	12.55
105595-EOWT	A	79	AG	20141231	13:29	0.6	10.64	13.73	12.19
105599-EOWT	A	79	OC	20150130	14:12	0.6	5.88	8.33	7.11
105603-EOWT	A	79	OC	20150205	09:29	0.6	9.09	8	8.55
105607-EOWT	A	79	OC	20150206	09:48	0.6	9.26	5.88	7.57
105514-EOWT	B	79	AG	20141223	17:09	0.6	16.67	14.58	15.62
105510-EOWT	B	79	AG	20141223	17:10	0.6	13.95	15.22	14.59
105506-EOWT	B	79	AG	20141224	16:05	0.6	16.67	10.2	13.43
105518-EOWT	B	79	AG	20141224	16:05	0.6	17.02	18	17.51
105530-EOWT	B	79	AC	20150116	16:23	0.6	19.15	15.91	17.53
105352-EOWT	G	79	AG	20150108	16:00	0.6	10.41	12.88	11.65
105356-EOWT	G	79	AG	20150109	16:00	0.6	16	16.03	16.02
105360-EOWT	G	79	OC	20150122	16:00	0.6	25.32	21	23.16
105364-EOWT	G	79	AC	20150127	16:00	0.6	17.63	17.24	17.44
105370-EOWT	G	79	AC	20150129	15:45	0.6	12.43	11.66	12.05
105374-EOWT	G	79	OC	20150209	15:45	0.6	21.46	29.07	25.27
105378-EOWT	G	79	AC	20150210	15:45	0.6	12.42	21.28	16.85
105430-EOWT	I	79	OG	20150121	13:00	0.6	30.95	32.56	31.76
105432-EOWT	I	79	OG	20150128	13:00	0.6	26.83	29.55	28.19
105436-EOWT	I	79	OG	20150128	15:00	0.6	29.79	26.67	28.23
105588-EOWT	A	79	AG	20141231	13:25	1.0	15.56	14.89	15.23
105592-EOWT	A	79	AG	20141231	13:31	1.0	11.76	10.42	11.09
105596-EOWT	A	79	AG	20141231	13:40	1.0	9.8	4	6.9
105600-EOWT	A	79	AC	20150130	14:10	1.0	8.7	8.7	8.7
105604-EOWT	A	79	AC	20150205	09:27	1.0	8.33	6	7.17
105608-EOWT	A	79	AC	20150206	09:26	1.0	10.42	6.38	8.4
105515-EOWT	B	79	AG	20141223	17:09	1.0	13.64	14.58	14.11
105511-EOWT	B	79	AG	20141223	17:10	1.0	14.89	12.96	13.93
105507-EOWT	B	79	AG	20141224	16:05	1.0	14.29	13.04	13.66
105519-EOWT	B	79	AG	20141224	16:05	1.0	15.22	14.58	14.9
105531-EOWT	B	79	AC	20150116	16:23	1.0	9.09	18.6	13.85
105353-EOWT	G	79	AG	20150108	16:00	1.0	3.18	12.69	7.94
105357-EOWT	G	79	AG	20150109	16:00	1.0	13.51	9.73	11.62
105361-EOWT	G	79	AC	20150122	16:00	1.0	18.79	15.29	17.04
105365-EOWT	G	79	AC	20150127	16:00	1.0	15.03	14.03	14.53
105371-EOWT	G	79	AC	20150129	15:45	1.0	7.98	8	7.99
105375-EOWT	G	79	AC	20150209	15:45	1.0	20.21	12.44	16.33
105431-EOWT	I	79	OG	20150121	14:00	1.0	18.18	20.93	19.56
105433-EOWT	I	79	OG	20150128	14:00	1.0	27.91	33.33	30.62
105437-EOWT	I	79	OG	20150128	16:00	1.0	29.55	27.08	28.32
105589-EOWT	A	79	AG	20141231	13:57	2.0	-1.96	-2.08	-2.02
105593-EOWT	A	79	AG	20141231	14:07	2.0	4.35	4.55	4.45
105597-EOWT	A	79	AG	20141231	14:16	2.0	8.51	2.08	5.3
105601-EOWT	A	79	AC	20150130	14:50	2.0	0	6.38	3.19
105605-EOWT	A	79	AC	20150205	10:12	2.0	2.04	1.96	2
105609-EOWT	A	79	AC	20150206	10:26	2.0	0	1.92	0.96
105516-EOWT	B	79	AG	20141223	17:09	2.0	9.09	10.87	9.98
105512-EOWT	B	79	AG	20141223	17:10	2.0	10.87	4.44	7.66
105508-EOWT	B	79	AG	20141224	16:05	2.0	13.95	12.77	13.36
105520-EOWT	B	79	AG	20141224	16:05	2.0	10.2	11.36	10.78
105528-EOWT	B	79	AC	20150116	16:23	2.0	10.42	12.5	11.46
105354-EOWT	G	79	AG	20150108	16:00	2.0	11.28	8.72	10
105358-EOWT	G	79	AG	20150109	16:00	2.0	14.37	10.13	12.25
105362-EOWT	G	79	OC	20150122	16:00	2.0	17.51	23.38	20.45
105366-EOWT	G	79	AC	20150127	16:00	2.0	17.03	16.12	16.58
105368-EOWT	G	79	AC	20150129	15:45	2.0	2.07	5.23	3.65
105372-EOWT	G	79	AC	20150205	15:45	2.0	9.39	11.52	10.46
105376-EOWT	G	79	AC	20150209	15:45	2.0	15.95	9.86	12.91
105428-EOWT	I	79	OG	20150122	13:00	2.0	27.5	28.21	27.86
105434-EOWT	I	79	OG	20150129	14:00	2.0	24.32	27.78	26.05
105438-EOWT	I	79	OG	20150129	15:00	2.0	29.27	26.19	27.73
105590-EOWT	A	79	AG	20141231	14:06	3.0	4.44	4.44	4.44
105594-EOWT	A	79	AG	20141231	14:14	3.0	8.51	0	4.26
105598-EOWT	A	79	AG	20141231	14:23	3.0	4.26	4.65	4.46
105602-EOWT	A	79	AC	20150130	14:46	3.0	6.38	6.38	6.38
105606-EOWT	A	79	AC	20150205	10:06	3.0	5.88	0	2.94
105610-EOWT	A	79	OC	20150206	10:00	3.0	-2.17	2.22	0.03
105517-EOWT	B	79	AG	20141223	17:09	3.0	6.38	6.12	6.25
105513-EOWT	B	79	AG	20141223	17:10	3.0	6.12	4.17	5.15
105509-EOWT	B	79	AG	20141224	16:05	3.0	11.36	11.11	11.23
105521-EOWT	B	79	AG	20141224	16:05	3.0	7.32	6.67	7
105529-EOWT	B	79	AC	20150116	16:23	3.0	8.51	12.77	10.64
105355-EOWT	G	79	AG	20150108	16:00	3.0	0.8	6.99	3.9
105359-EOWT	G	79	AG	20150109	16:00	3.0	7.89	9.19	8.54
105363-EOWT	G	79	AC	20150122	16:00	3.0	11.9	6.2	9.05
105367-EOWT	G	79	AC	20150127	16:00	3.0	10.34	9.63	9.99
105369-EOWT	G	79	AC	20150129	15:45	3.0	5.58	3.52	4.55
105373-EOWT	G	79	AC	20150205	15:45	3.0	7.76	5.92	6.84
105377-EOWT	G	79	OC	20150209	15:45	3.0	10.1	13.5	11.8
105429-EOWT	I	79	OG	20150122	14:00	3.0	26.67	25	25.84
105435-EOWT	I	79	OG	20150129	14:00	3.0	27.03	29.73	28.38
105439-EOWT	I	79	AG	20150129	16:00	3.0	27.5	23.81	25.66