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Locomotive Fuelling Problem (LFP) in Railroad Operations

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About 75% of the world's railroads operate with diesel fuel. Even though European railroads rely on electric traction to a large extent, US railroads rely mostly on diesel fuel (100% of US freight is hauled by diesel locomotives). Like in other industries there is intense competition to keep costs low; and in railroad operations based on diesel locomotives, the cost of fuel and its delivery is the major component of the overall cost. Since the cost of fuel is highly location dependent (due to local taxes and transportation costs between supply and demand points), locomotive fueling problem discussed in this paper is a critical problem in railroad operations. Given: the set of yards, the set of trains to operate, the locomotive assignments to trains, and the fuel cost and capacity data; this problem deals with finding the fueling plan for the various trains to minimize the total cost of fueling the locomotives. We describe three different algorithms, two based on greedy method and one using MIP model, that we used to solve this problem and highlight the summary of solutions obtained by each of them for comparisons of these algorithms.

1. Introduction

With many modes of transport (trucking, rail, and shipping where this option is available)

The case study is a simplified real-life problem constructed and set up for the “**Problem Solving Competition-2010**” organized by the **Railway Applications Section (RAS)** of INFORMS. The statement of the problem and all the data sets in it can be seen at <http://www.informs-ras.org/problem.htm> . Kamalesh Somani (Kamalesh.Somani@CSX.com) of CSX Transportation, and Juan C. Morales (Juan.Morales@BNSF.com) of BNSF Railways contributed to this problem and the data sets in it. The data sets are also given in Appendix.

In this problem, as in most of the countries, diesel cost/gallon varies from yard to yard. We describe 3 different algorithms that we used to solve this problem and highlight the summary of solutions obtained by each of them for comparisons of these algorithms.

2. Brief Description of the problem in the Case Study

The problem deals with $N[=214]$ trains hauled by $L[=214]$ locomotives on a railroad network consisting of $Y[=73]$ yards over a two week planning horizon. Each train is a sequence of yards visited (referred to as **route** in the paper). Each route may be hauled by a different locomotive on different days; the allocation of locomotives to routes is given as data. For hauling each train in this case study, only one locomotive is used. Each locomotive may haul different trains on different days.

All the routes operated in the case study problem can be grouped into set of pairs, each pair operating between a pair of yards in the forward and reverse directions; but the set of yards visited in the two directions for a route-pair may be different. Every route pair has a dedicated pair of locomotives operating it.

For refueling of its locomotives, each train can stop at any of the yards on its route except the destination yard, but the total number of refuelings on any route should be 2. All locomotives have the same fuel capacity of 4500 gallons; and the fuel consumption (3.5 gallons of fuel per mile) on any route is independent of the route and the locomotive operating the train. Fuel consumption for a locomotive travelling between any two yards can be determined using the given table of inter-yard distances. Fuel cost at different yards varies between \$ 2.16 to \$3.52/gallon. Each refueling incurs a setup cost of \$250. Fuel is dispensed by fuelling trucks positioned at yards, each having a maximum capacity of 25000 gallons/day and involving contracting cost of \$8000. The problem statement allows each locomotive

$GC2_p = (\text{fuel cost incurred at yard } p \text{ for the route}) + (\text{incremental truck contracting cost at this}$

Fact 1 : *It turns out that one refueling in each direction is sufficient in the case study problem, hence greedy method selects just one refueling yard in each direction of the route pairs.*

We check the following for each pair of yards $\{y_i, y_k\}$ where y_i, y_k belong to different direction routes in this pair. If the mileage of the route from y_i to y_k or y_k to y_i is greater than what can be covered by one locomotive tank capacity, discard this pair. If the mileage of the portion of the route pair from y_i to y_k ,or y_k to y_i can both be covered by one locomotive tank capacity, then call this pair of yards as a **feasible pair** (Fact 1 implies that there will be at least one feasible pair of yards),

the planning horizon, on that route before the selection can be made. In Algorithm2 also, refueling yards are selected for routes one at a time sequentially, in the order R_{11} , R_{12} , R_{21} and R_{22} .

At any stage, let T denote the set of committed refueling yards selected upto that stage. For Category R_{11} the procedure for selection of refueling yards for routes is the same as in Algorithm1. Since the locomotive has to be refueled to full capacity at the origin yard of each route in R_{11} , T will be the set of all yards on routes in R_{11} . Then prepare a two-way table G of fuel requirements at yards y in T on day $j \in \{1, \dots, 14\}$ in the planning horizon, where entry g_{yj} in this table is the fuel dispensed at y on day j for the routes processed already. Prepare a new column $H = (h(y): y \in \{1, 2, \dots, 74\} = \text{set of all yards})$ where the entry $h(y) = \text{cost of all fuel dispensed at this yard upto this stage} + \text{cost of contracting fuel trucks needed at this yard to dispense this fuel}$.

For Category R_{12} , order the route pairs in it in decreasing order of round-trip mileage; we will process the routes in this order.

We will select the refueling yard for each route r in R_{12} by the following procedure. For each of the terminal yards y on this route, define $h_2(y) = \text{the fuel} + \text{truck contracting cost of dispensing all the fuel commitments at this yard } y \text{ in routes processed already} + \text{this additional route } y$. Choose the yard y in P corresponding to the minimum value of $h_2(y)$ as the refueling yard for this route and update the column H and set T accordingly.

A similar principle is used in processing routes in R_{21} , R_{22} .

Highlights of solution obtained by Algorithm2: The solution consists of 33 committed refueling yards and total number of trucks contracted at them is 39 (number of contracted trucks varies from 1 to 3 at different committed yards). The total cost in the solution is \$11.6 million, of which the cost of fuel is \$10.96 million, operating costs of fueling trucks is \$0.31 million, and fueling setup cost is \$0.35 million. The utilization of the fueling trucks over the planning horizon varies from a minimum of 3% to 80%. Algorithm2 was coded on C language, which takes about 1.5 seconds for compiling and solution on a 1.6 GHz computer.

6. The Mixed Integer Programming (MIP) Model for the case study problem, and its solution obtained used CPLEX software

There are many different ways to model this problem using an MIP model. The main

Highlights of solution obtained by MIP Model: The solution consists of 41 committed refueling yards and total number of trucks contracted at them is 49(number of contracted trucks varies from 1 to 3 at different committed yards). The total cost in the solution is \$11.56 million, of which the cost of fuel is \$10.84 million, operating costs of fueling trucks is \$0.39 million and fueling setup cost is \$0.33 million. Even though the MIP model has the objective of minimizing the total cost of fuel, the objective value at the optimum solution of this model, 10.84 million, is greater than the fuel cost for the solution obtained in Algorithm1. The reason for it is that, the solution in the MIP model maintains only 89,873 gallons of fuel in the beginning and end of the planning model as opposed to the solution in Algorithm1 which maintains 96,247 gallons of fuel in the beginning and end of the planning model.

The utilization of the fueling trucks over the planning horizon varies from a minimum of 3 to 60%. The MIP model takes about 6 seconds for processing and solution on a 1.6 GHz

T13	Y30	1	1	Origin
T13	Y12	2	2	Intermediate
T13	Y16	3	2	Intermediate
T13	Y43	4	2	Destination
T14	Y43	1	1	Origin
T14	Y16	2	2	Intermediate
T14	Y12	3	2	Intermediate
T14	Y30	4	2	Destination
T15	Y50	1	1	Origin
T15	Y48	2	2	Intermediate
T15	Y60	3	2	Intermediate
T15	Y35	4	2	Destination
T16	Y35	1	1	Origin
T16	Y60	2	1	Intermediate
T16	Y48	3	2	Intermediate
T16	Y50	4	2	Destination
T17	Y47	1	1	Origin
T17	Y15	2	1	Destination
T18	Y15	1	1	Origin
T18	Y47	2	1	Destination
T19	Y32	1	1	Origin
T19	Y39	2	2	Intermediate
T19	Y41	3	2	Intermediate
T19	Y43	4	2	Destination
T20	Y43	1	1	Origin
T20	Y41	2	1	Intermediate
T20	Y39	3	1	Intermediate
T20	Y32	4	2	Destination
T21	Y33	1	1	Origin
T21	Y40	2	2	Intermediate
T21	Y41	3	2	Intermediate
T21	Y43	4	2	Destination
T22	Y43	1	1	Origin
T22	Y41	2	2	Intermediate
T22	Y32	3	2	Intermediate
T22	Y33	4	2	Destination
T23	Y15	1	1	Origin
T23	Y8	2	2	Intermediate
T23	Y9	3	2	Intermediate
T23	Y30	4	2	Intermediate
T23	Y28	5	2	Intermediate
T23	Y23	6	2	Destination
T24	Y23	1	1	Origin
T24	Y28	2	2	Intermediate
T24	Y30	3	2	Intermediate
T24	Y9	4	2	Intermediate
T24	Y8	5	2	Intermediate
T24	Y15	6	2	Destination
T25	Y6	1	1	Origin
T25	Y4	2	1	Intermediate
T25	Y30	3	2	Destination

T26	Y30		1	1	Origin
T26	Y4		2	1	Intermediate
T26	Y5		3	1	Intermediate
T26	Y6		4	2	Destination

T39	Y23	5	2	Destination
T40	Y23	1	1	Origin
T40	Y20	2	1	Intermediate
T40	Y17	3	2	Intermediate
T40	Y34	4	2	Intermediate
T40	Y59	5	2	Destination
T41	Y59	1	1	Origin
T41	Y34	2	1	Intermediate
T41	Y17	3	1	Intermediate
T41	Y20	4	2	Intermediate
T41	Y23	5	2	Destination
T42	Y23	1	1	Origin
T42	Y20	2	2	Intermediate
T42	Y17	3	2	Intermediate
T42	Y59	4	2	Destination
T43	Y68	1	1	Origin
T43	Y64	2	2	Intermediate
T43	Y20	3	2	Intermediate
T43	Y23	4	2	Destination
T44	Y23	1	1	Origin
T44	Y20	2	2	Intermediate
T44	Y64	3	2	Intermediate
T44	Y68	4	2	Destination
T45	Y3	1	1	Origin
T45	Y30	2	2	Destination
T46	Y30	1	1	Origin
T46	Y3	2	1	Destination
T47	Y23	1	1	Origin
T47	Y66	2	2	Destination
T48	Y66	1	1	Origin
T48	Y23	2	2	Destination
T49	Y34	1	1	Origin
T49	Y59	2	1	Destination
T50	Y59	1	1	Origin
T50	Y34	2	1	Destination
T51	Y59	1	1	Origin
T51	Y57	2	2	Intermediate
T51	Y55	3	2	Destination
T52	Y55	1	1	Origin
T52	Y57	2	1	Intermediate
T52	Y59	3	2	Destination
T53	Y30	1	1	Origin
T53	Y26	2	1	Intermediate
T53	Y22	3	2	Destination
T54	Y22	1	1	Origin
T54	Y26	2	2	Intermediate

T77	Y48	2	1	Destination
T78	Y48	1	1	Origin
T78	Y49	2	1	Destination
T79	Y60	1	1	Origin

T96	Y57	4	2	Destination
T97	Y32	1	1	Origin
T97	Y31	2	1	Intermediate
T97	Y19	3	2	Destination
T98	Y19	1	1	Origin
T98	Y32	2	2	Destination
T99	Y57	1	1	Origin
T99	Y34	2	2	Destination
T100	Y34	1	1	Origin
T100	Y57	2	2	Destination
T101	Y57	1	1	Origin
T101	Y53	2	2	Destination
T102	Y53	1	1	Origin

T185	Y3	4
T185	Y29	5

2 | Intermediate |
2 | Intermediate

Y1	Y14	106
Y1	Y15	117
Y1	Y16	300
Y1	Y17	300
Y1	Y18	300
Y1	Y19	300
Y1	Y20	300
Y1	Y21	300
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Y1	Y58	300
Y1	Y59	300
Y1	Y60	127
Y1	Y61	261
Y1	Y62	277
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Y1	Y64	300

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Y1	Y67	300
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Y1	Y70	300
Y1	Y71	300
Y1	Y72	300
Y1	Y73	300
Y2	Y1	186
Y2	Y3	202
Y2	Y4	298
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Y2	Y6	300
Y2	Y7	99
Y2	Y8	300
Y2	Y9	300
Y2	Y10	230
Y2	Y11	158
Y2	Y12	146
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Y2	Y61	273
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Y2	Y73	300
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Y4	Y24	300
Y4	Y25	300
Y4	Y26	300
Y4	Y27	300
Y4	Y28	263
Y4	Y29	137
Y4	Y30	177
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Y4	Y73	300
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Y5	Y3	273
Y5	Y4	178
Y5	Y6	137
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Y6	Y4	300
Y6	Y5	137
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Y6	Y10	300

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Y6	Y12	300		
Y6	Y13	2356	699.06	166.9800

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Y7	Y72	300
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Y8	Y4	300
Y8	Y5	300
Y8	Y6	300
Y8	Y7	300
Y8	Y9	164
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Y8	Y13	300
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Y8	Y15	190
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Y8	Y19	300

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Y8	Y63	300
Y8	Y64	300
Y8	Y65	300
Y8	Y66	300
Y8	Y67	300
Y8	Y68	300
Y8	Y69	300
Y8	Y70	300

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Y8	Y72	300
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Y9	Y2	300
Y9	Y3	300
Y9	Y4	300
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Y9	Y7	300
Y9	Y8	164
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Y9	Y11	300
Y9	Y12	174
Y9	Y13	300
Y9	Y14	300
Y9	Y15	300
Y9	Y16	300
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Y9	Y18	300
Y9	Y19	300
Y9	Y20	300
Y9	Y21	300
Y9	Y22	300
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Y58	Y23	300
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Y58	Y28	300
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Y58	Y33	300
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Y58	Y35	300
Y58	Y36	300
Y58	Y37	300
Y58	Y38	300
Y58	Y39	300

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Y58	Y41	300

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Y59	Y23	300
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Y59	Y25	300
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Y59	Y33	197
Y59	Y34	105
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Y59	Y36	300
Y59	Y37	300
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Y59	Y39	300
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Y59	Y41	300
Y59	Y42	300
Y59	Y43	300
Y59	Y44	300
Y59	Y45	300
Y59	Y46	300
Y59	Y47	300
Y59	Y48	300
Y59	Y49	300
Y59	Y50	300
Y59	Y51	300
Y59	Y52	300
Y59	Y53	280
Y59	Y54	226
Y59	Y55	273
Y59	Y56	300
Y59	Y57	131
Y59	Y58	300
Y59	Y60	300
Y59	Y61	300
Y59	Y62	300
Y59	Y63	262
Y59	Y64	300
Y59	Y65	300
Y59	Y66	300
Y59	Y67	300
Y59	Y68	300
Y59		
Y59		

Y59	Y71		300
Y59	Y72		300

Y60	Y49	300
Y60	Y50	281
Y60	Y51	300
Y60	Y52	300
Y60	Y53	300
Y60	Y54	300

Y61

Y28

300

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Y62	Y10	300
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Y62	Y15	160
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Y62	Y40	235
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Y62	Y42	181
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Y62	Y45	147
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Y62	Y65	300
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Y63	Y47	300
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Y63	Y50	300
Y63	Y51	225
Y63	Y52	203
Y63	Y53	181
Y63	Y54	128
Y63	Y55	279
Y63	Y56	300
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Y63	Y58	300
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Y63	Y68	300
Y63	Y69	300
Y63.94(Y70Y52)5346.3(200.311.94(
Y63	Y71	300
Y63	Y72	300
Y63	Y73	300

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Y64	Y21	164
Y64	Y22	264
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Y64	Y24	300
Y64	Y25	268
Y64	Y26	244
Y64	Y27	300
Y64	Y28	300
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Y64	Y60	300
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Y64	Y62	300
Y64	Y63	300
Y64	Y65	108
Y64	Y66	300
Y64	Y67	110

Y64	Y68	76
Y64	Y69	178
Y64	Y70	111
Y64	Y71	300
Y64	Y72	300
Y64	Y73	259
Y65	Y1	300
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Y65	Y17	300
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Y65	Y22	138
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Y65	Y45	300

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Y65	Y47	300
Y65	Y48	300
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Y65	Y60	300
Y65	Y61	300
Y65	Y62	300
Y65	Y63	300
Y65	Y64	108
Y65	Y66	300
Y65	Y67	219
Y65	Y68	185
Y65	Y69	104
Y65	Y70	186
Y65	Y71	300
Y65	Y72	300
Y65	Y73	268
Y66	Y1	300
Y66	Y2	300
Y66	Y3	300
Y66	Y4	300
Y66	Y5	300
Y66	Y6	300
Y66	Y7	300

Y66	Y25	300
Y66	Y26	300
Y66	Y27	265
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Y66	Y31	300
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Y66	Y69	300
Y66	Y70	300
Y66	Y71	300
Y66	Y72	247
Y66	Y73	300
Y67	Y1	300
Y67	Y2	300
Y67	Y3	300

Y67	Y4	300
Y67	Y5	300
Y67	Y6	300
Y67	Y7	300
Y67	Y8	300
Y67	Y9	300

Y67	Y55	300
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Y67	Y59	300
Y67	Y60	300
Y67	Y61	300
Y67	Y62	300
Y67	Y63	300
Y67	Y64	110
Y67	Y65	219
Y67	Y66	300
Y67	Y68	187
Y67	Y69	288
Y67	Y70	173
Y67	Y71	300
Y67	Y72	300
Y67	Y73	300
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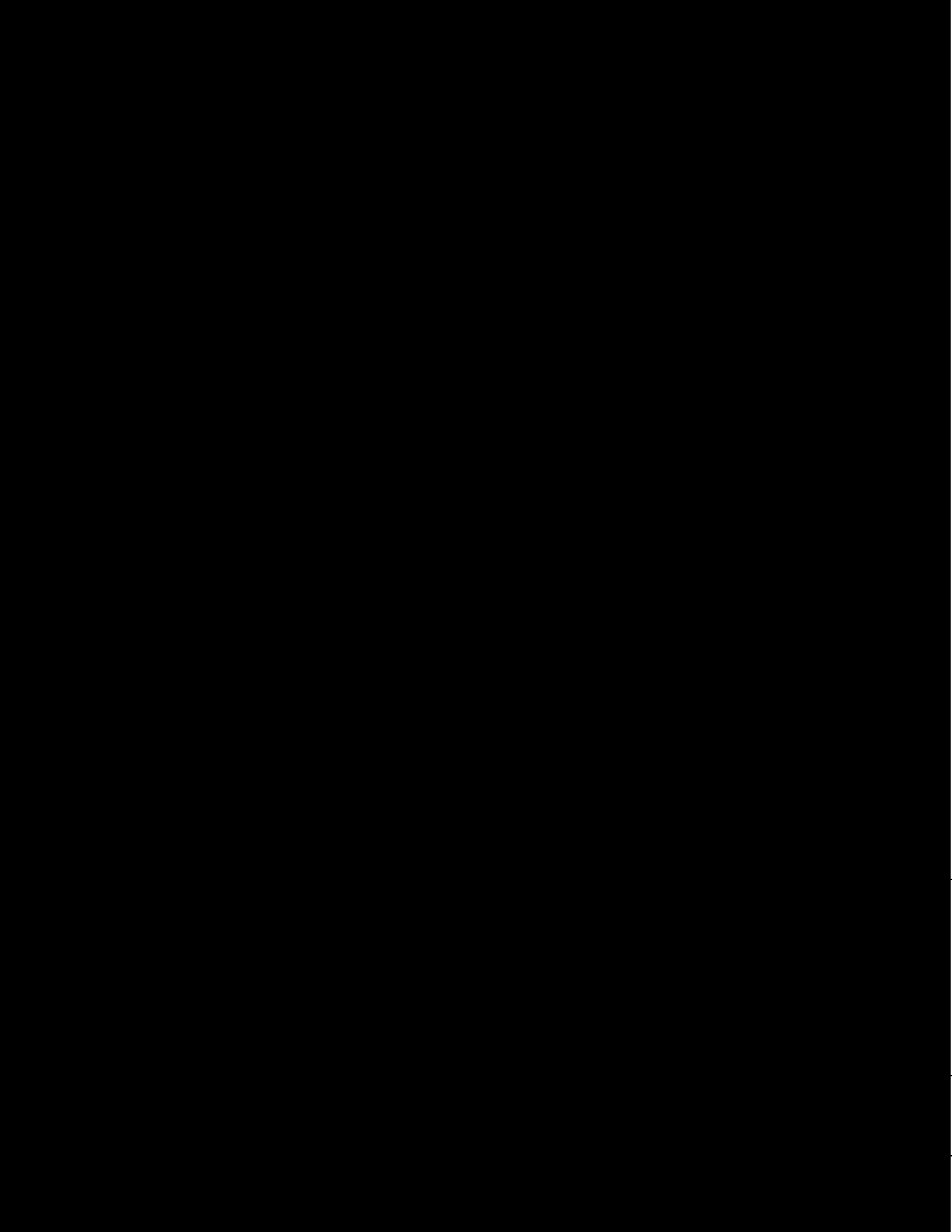
Y68

Y34

300

Y69	Y13	300
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Y70	Y45	300
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Y70	Y47	300
Y70	Y48	300
Y70	Y49	300
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Y70	Y62	300
Y70	Y63	300
Y70	Y64	111
Y70	Y65	186
Y70	Y66	300
Y70	Y67	173
Y70	Y68	188
Y70	Y69	259
Y70	Y71	300
Y70	Y72	300
Y70	Y73	300
Y71	Y1	300
Y71	Y2	300
Y71	Y3	300
Y71	Y4	300
Y71	Y5	259
Y71	Y6	300
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Y71	Y13	161
Y71	Y14	300
Y71	Y15	300
Y71	Y16	300
Y71	Y17	300
Y71	Y18	300
Y71	Y19	300
Y71	Y20	300
Y71	Y21	300



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[Redacted text]

[Redacted text]

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[Redacted text]

Y72	Y1		300
Y72	Y2		300

Y72	Y52	300
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Y72	Y56	300
Y72	Y57	300
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Y72	Y59	300
Y72	Y60	300
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Y72	Y66	247
Y72	Y67	300
Y72	Y68	300
Y72	Y69	300
Y72	Y70	300
Y72	Y71	300

Y73	Y31	300
Y73	Y32	300
Y73	Y33	300
Y73	Y34	300
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Y73	Y36	300
Y73	Y37	300
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Y73	Y39	300
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Y73	Y59	300
Y73	Y60	300
Y73	Y61	300
Y73	Y62	300
Y73	Y63	300
Y73	Y64	259
Y73	Y65	268
Y73	Y66	300
Y73	Y67	300
Y73	Y68	182
Y73	Y69	208
Y73	Y70	300
Y73	Y71	300
Y73	Y72	300

Table: Locomotive Train Assignments

LocoID	Train	Train Start Day	Week	Cycle Sequence	Horizon Day
L1	T1	MON	1	1	1
L1	T2	TUE	1	2	2
L1	T1	WED	1	3	3
L1	T2	THU	1	4	4

L1	T1	FRI	1	5	5
L1	T2	SAT	1	6	6
L1	T1	SUN	1	7	7
L1	T2	MON	2	8	8

L4	T3	SUN	2	14	14
L5	T5	MON	1	1	1
L5	T6	TUE	1	2	2
L5	T5	WED	1	3	3
L5	T6	THU	1	4	4
L5	T5	FRI	1	5	5
L5	T6	SAT	1	6	6
L5	T5	SUN	1	7	7
L5	T6	MON	2	8	8
L5	T5	TUE	2	9	9
L5	T6	WED	2	10	10
L5	T5	THU	2	11	11
L5	T6	FRI	2	12	12
L5	T5	SAT	2	13	13
L5	T6	SUN	2	14	14
L6	T6	MON	1	1	1
L6	T5	TUE	1	2	2
L6	T6	WED	1	3	3
L6	T5	THU	1	4	4
L6	T6	FRI	1	5	5
L6	T5	SAT	1	6	6
L6	T6	SUN	1	7	7
L6	T5	MON	2	8	8
L6	T6	TUE	2	9	9
L6	T5	WED	2	10	10
L6	T6	THU	2	11	11
L6	T5	FRI	2	12	12
L6	T6	SAT	2	13	13
L6	T5	SUN	2	14	14
L7	T7	MON	1	1	1
L7	T8	TUE	1	2	2
L7	T7	WED	1	3	3
L7	T8	THU	1	4	4
L7	T7	FRI	1	5	5
L7	T8	SAT	1	6	6
L7	T7	SUN	1	7	7
L7	T8	MON	2	8	8
L7	T7	TUE	2	9	9
L7	T8	WED	2	10	10
L7	T7	THU	2	11	11
L7	T8	FRI	2	12	12
L7	T7	SAT	2	13	13
L7	T8	SUN	2	14	14
L8	T8	MON	1	1	1
L8	T7	TUE	1	2	2
L8	T8	WED	1	3	3
L8	T7	THU	1	4	4
L8	T8	FRI	1	5	5
L8	T7	SAT	1	6	6
L8	T8	SUN	1	7	7
L8	T7	MON	2	8	8

L12

T11

THU

1

4

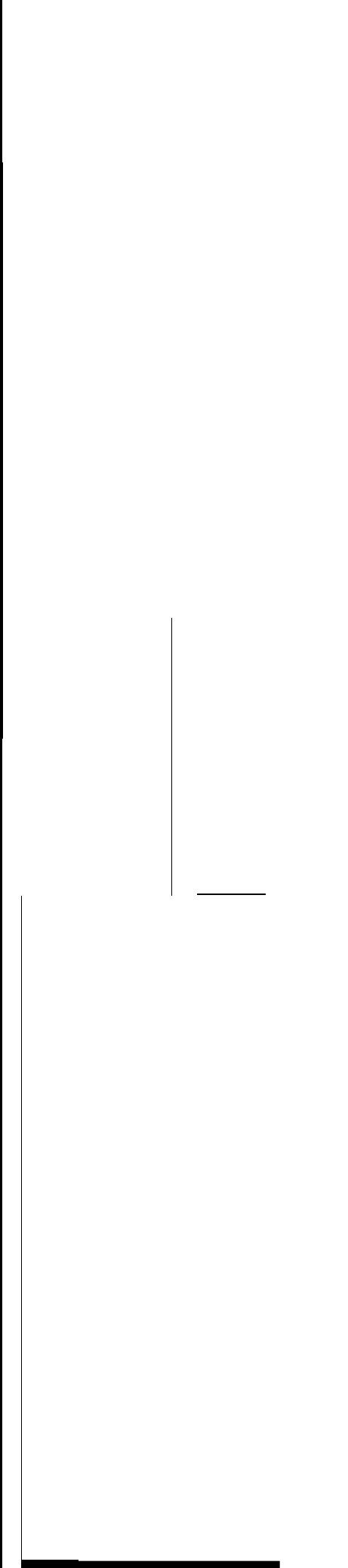
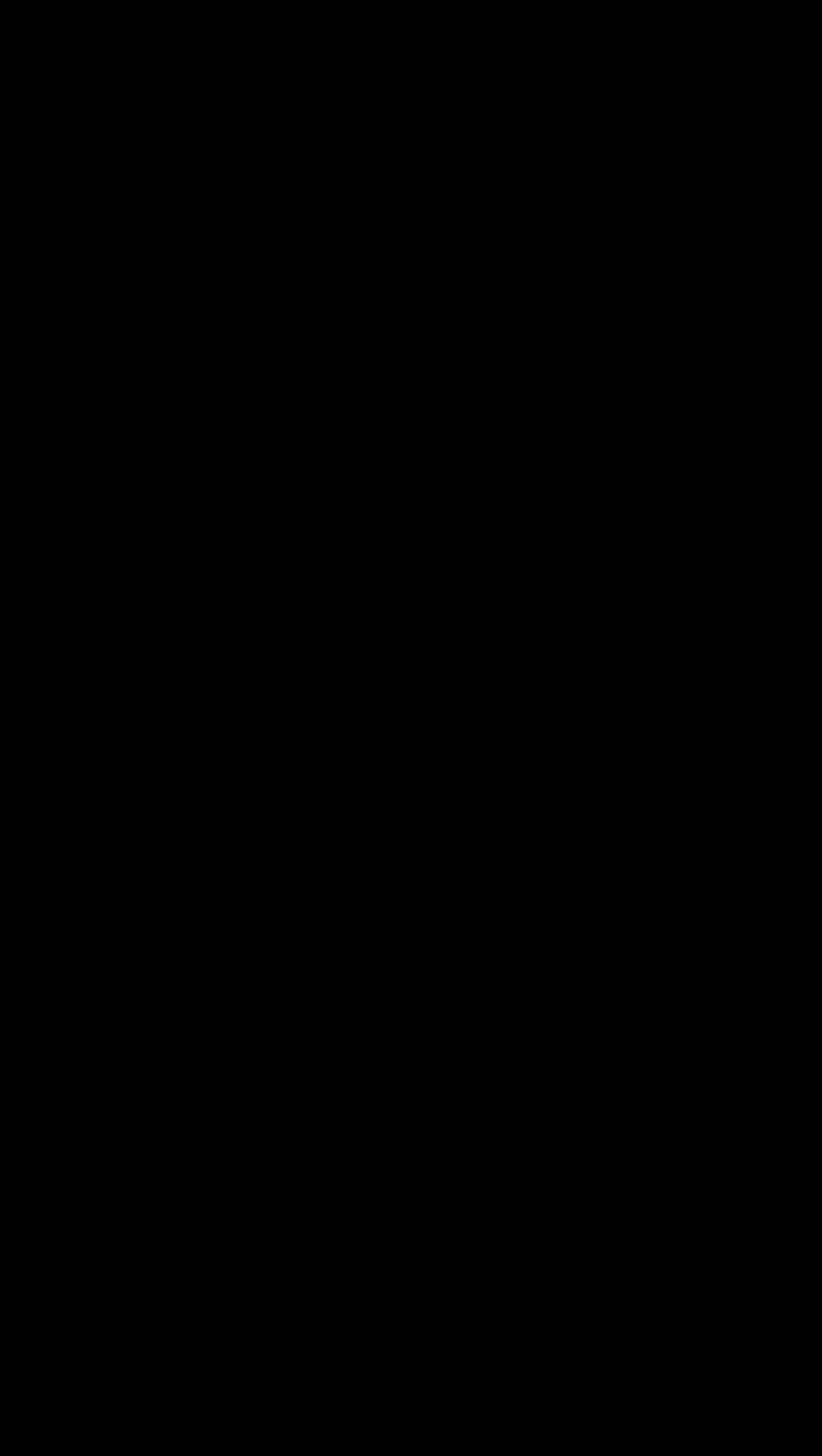
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L15	T15	SAT	2	13	13
L15	T16	SUN	2	14	14
L16	T16	MON	1	1	1
L16	T15	TUE	1	2	2
L16	T16	WED	1	3	3
L16	T15	THU	1	4	4
L16	T16	FRI	1	5	5
L16	T15	SAT	1	6	6
L16	T16	SUN	1	7	7
L16	T15	MON	2	8	8
L16	T16	TUE	2	9	9
L16	T15	WED	2	10	10
L16	T16	THU	2	11	11
L16	T15	FRI	2	12	12
L16	T16	SAT	2	13	13
L16	T15	SUN	2	14	14
L17	T17	MON	1	1	1
L17	T18	TUE	1	2	2
L17	T17	WED	1	3	3
L17	T18	THU	1	4	4
L17	T17	FRI	1	5	5
L17	T18	SAT	1	6	6
L17	T17	SUN	1	7	7
L17	T18	MON	2	8	8
L17	T17	TUE	2	9	9
L17	T18	WED	2	10	10
L17	T17	THU	2	11	11
L17	T18	FRI	2	12	12
L17	T17	SAT	2	13	13
L17	T18	SUN	2	14	14
L18	T18	MON	1	1	1
L18	T17	TUE	1	2	2
L18	T18	WED	1	3	3
L18	T17	THU	1	4	4
L18	T18	FRI	1	5	5
L18	T17	SAT	1	6	6
L18	T18	SUN	1	7	7

L19	T20	MON	2	8	8
L19	T19	TUE	2	9	9
L19	T20	WED	2	10	10
L19	T19	THU	2	11	11
L19	T20	FRI	2	12	12
L19	T19	SAT	2	13	13
L19	T20	SUN	2	14	14
L20	T20	MON	1	1	1
L20	T19	TUE	1	2	2
L20	T20	WED	1	3	3
L20	T19	THU	1	4	4
L20	T20	FRI	1	5	5
L20	T19	SAT	1	6	6
L20	T20	SUN	1	7	7
L20	T19	MON	2	8	8

SAN

L23	T23	WED	1	3	3
L23	T24	THU	1	4	4
L23	T23	FRI	1	5	5
L23	T24	SAT	1	6	6
L23	T23	SUN	1	7	7
L23	T24	MON	2	8	8
L23	T23	TUE	2	9	9



L34	T33	TUE	1	2	2
L34	T34	WED	1	3	3
L34	T33	THU	1	4	4
L34	T34	FRI	1	5	5
L34	T33	SAT	1	6	6
L34	T34	SUN	1	7	7
L34	T33	MON	2	8	8
L34	T34	TUE	2	9	9
L34	T33	WED	2	10	10
L34	T34	THU	2	11	11
L34	T33	FRI	2	12	12
L34	T34	SAT	2	13	13
L34	T33	SUN	2	14	14
L35	T35	MON	1	1	1
L35	T36	TUE	1	2	2
L35	T35	WED	1	3	3
L35	T36	THU	1	4	4
L35	T35	FRI	1	5	5
L35	T36	SAT	1	6	6
L35	T35	SUN	1	7	7
L35	T36	MON	2	8	8
L35	T359.427	98.04	651.72	Tm-0032	Tc4.6453

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L37	T37	THU	2	11	11
L37	T38	FRI	2	12	12
L37	T37	SAT	2	13	13
L37	T38	SUN	2	14	14
L38	T38	MON	1	1	1
L38	T37	TUE	1	2	2
L38	T38	WED	1	3	3
L38	T37	THU	1	4	4
L38	T38	FRI	1	5	5
L38	T37	SAT	1	6	6
L38	T38	SUN	1	7	7
L38	T37	MON	2	8	8
L38	T38	TUE	2	9	9
L38	T37	WED	2	10	10
L38	T38	THU	2	11	11
L38	T37	FRI	2	12	12
L38	T38	SAT	2	13	13
L38	T37	SUN	2	14	14
L39	T39	MON	1	1	1
L39	T40	TUE	1	2	2
L39	T39	WED	1	3	3
L39	T40	THU	1	4	4
L39	T39	FRI	1	5	5
L39	T40	SAT	1	6	6
L39	T39	SUN	1	7	7
L39	T40	MON	2	8	8
L39	T39	TUE	2	9	9
L39	T40	WED	2	10	10
L39	T39	THU	2	11	11
L39	T40	FRI	2	12	12
L39	T39	SAT	2	13	13
L39	T40	SUN	2	14	14
L40	T40	MON	1	1	1
L40	T39	TUE	1	2	2
L40	T40	WED	1	3	3
L40	T39	THU	1	4	4
L40	T40	FRI	1	5	5
L40	T39	SAT	1	6	6
L40	T40	SUN	1	7	7
L40	T39	MON	2	8	8
L40	T40	TUE	2	9	9
L40	T39	WED	2	10	10
L40	T40	THU	2	11	11
L40	T39	FRI	2	12	12
L40	T40	SAT	2	13	13
L40	T39	SUN	2	14	14
L41	T41	MON	1	1	1
L41	T42	TUE	1	2	2
L41	T41	WED	1	3	3
L41	T42	THU	1	4	4
L41	T41	FRI	1	5	5

L41	T42	SAT	1	6	6
L41	T41	SUN	1	7	7
L41	T42	MON	2	8	8
L41	T41	TUE	2	9	9
L41	T42	WED	2	10	10
L41	T41	THU	2	11	11
L41	T42	FRI	2	12	12
L41	T41	SAT	2	13	13
L41	T42	SUN	2	14	14
L42	T42	MON	1	1	1
L42	T41	TUE	1	2	2
L42	T42	WED	1	3	3
L42	T41	THU	1	4	4
L42	T42	FRI	1	5	5
L42	T41	SAT	1	6	6
L42	T42	SUN	1	7	7
L42	T41	MON	2	8	8
L42	T42	TUE	2	9	9
L42	T41	WED	2	10	10
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L42	T41	FRI	2	12	12
L42	T42	SAT	2	13	13
L42	T41	SUN	2	14	14
L43	T43	MON	1	1	1
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L43	T43	WED	1	3	3
L43	T44	THU	1	4	4
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L43	T43	SUN	1	7	7
L43	T44	MON	2	8	8
L43	T43	TUE	2	9	9
L43	T44	WED	2	10	10
L43	T43	THU	2	11	11
L43	T44	FRI	2	12	12
L43	T43	SAT	2	13	13
L43	T44	SUN	2	14	14
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L44	T43	TUE	1	2	2
L44	T44	WED	1	3	3
L44	T43	THU	1	4	4
L44	T44	FRI	1	5	5
L44	T43	SAT	1	6	6
L44	T44	SUN	1	7	7
L44	T43	MON	2	8	8
L44	T44	TUE	2	9	9
L44	T43	WED	2	10	10
L44	T44	THU	2	11	11
L44	T43	FRI	2	12	12
L44	T44	SAT	2	13	13
L44	T43	SUN	2	14	14

L52	T52	FRI	1	5	5
L52	T51	SAT	1	6	6
L52	T52	SUN	1	7	7
L52	T51	MON	2	8	8
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L53	T54	TUE	1	2	2
L53	T53	WED	1	3	3
L53	T54	THU	1	4	4
L53	T53	FRI	1	5	5
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L53	T53	SUN	1	7	7
L53	T54	MON	2	8	8
L53	T53	TUE	2	9	9
L53	T54	WED	2	10	10
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L54	T53	WED	2	10	10
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L55	T56	WED	2	10	10
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L55	T56	FRI	2	12	12
L55	T55	SAT	2	13	13

L59	T59	TUE	2	9	9
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L59	T60	FRI	2	12	12
L59	T59	SAT	2	13	13
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L60	T59	THU	1	4	4
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L60	T59	WED	2	10	10
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L60	T59	SUN	2	14	14
L61	T61	MON	1	1	1
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L62	T61	TUE	1	2	2
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L62	T61	THU	1	4	4
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L62	T61	MON	2	8	8
L62	T62	TUE	2	9	9
L62	T61	WED	2	10	10
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L62	T61	FRI	2	12	12
L62	T62	SAT	2	13	13
L62	T61	SUN	2	14	14
L63	T63	MON	1	1	1
L63	T64	TUE	1	2	2
L63	T63	WED	1	3	3

L63	T64	THU	1	4	4
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L63	T64	SAT	1	6	6
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L63	T63	TUE	2	9	9
L63	T64	WED	2	10	10
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L64	T64	WED	1	3	3
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L65	T66	THU	1	4	4
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L65	T66	MON	2	8	8
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L65	T66	WED	2	10	10
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L66	T66	TUE	2	9	9
L66	T65	WED	2	10	10
L66	T66	THU	2	11	11
L66	T65	FRI	2	12	12

L74	T74	WED	1	3	3
L74	T73	THU	1	4	4
L74	T74	FRI	1	5	5
L74	T73	SAT	1	6	6
L74	T74	SUN	1	7	7
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L74	T74	THU	2	11	11
L74	T73	FRI	2	12	12
L74	T74	SAT	2	13	13
L74	T73	SUN	2	14	14
L75	T75	MON	1	1	1
L75	T76	TUE	1	2	2
L75	T75	WED	1	3	3
L75	T76	THU	1	4	4

L77

T78

FRI

2

12

12

L81	T81	SUN	1	7	7
L81	T82	MON	2	8	8
L81	T81	TUE	2	9	9
L81	T82	WED	2	10	10
L81	T81	THU	2	11	11
L81	T82	FRI	2	12	12
L81	T81	SAT	2	13	13
L81	T82	SUN	2	14	14
L82	T82	MON	1	1	1
L82	T81	TUE	1	2	2
L82	T82	WED	1	3	3
L82	T81	THU	1	4	4
L82	T82	FRI	1	5	5
L82	T81	SAT	1	6	6
L82	T82	SUN	1	7	7
L82	T81	MON	2	8	8
L82	T82	TUE	2	9	9
L82	T81	WED	2	10	10
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L82	T81	FRI	2	12	12
L82	T82	SAT	2	13	13
L82	T81	SUN	2	14	14
L83	T83	MON	1	1	1
L83	T84	TUE	1	2	2
L83	T83	WED	1	3	3
L83	T84	THU	1	4	4
L83	T83	FRI	1	5	5
L83	T84	SAT	1	6	6
L83	T83	SUN	1	7	7
L83	T84	MON	2	8	8
L83	T83	TUE	2	9	9
L83	T84	WED	2	10	10
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L83	T84	FRI	2	12	12
L83	T83	SAT	2	13	13
L83	T84	SUN	2	14	14
L84	T84	MON	1	1	1
L84	T83	TUE	1	2	2
L84	T84	WED	1	3	3
L84	T83	THU	1	4	4
L84	T84	FRI	1	5	5
L84	T83	SAT	1	6	6
L84	T84	SUN	1	7	7
L84	T83	MON	2	8	8
L84	T84	TUE	2	9	9
L84	T83	WED	2	10	10
L84	T84	THU	2	11	11
L84	T83	FRI	2	12	12

L88	T88	THU	2	11	11
L88	T87	FRI	2	12	12
L88	T88	SAT	2	13	13
L88	T87	SUN	2	14	14
L89	T89	MON	1	1	1
L89	T90	TUE	1	2	2
L89	T89	WED	1	3	3
L89	T90	THU	1	4	4
L89	T89	FRI	1	5	5
L89	T90	SAT	1	6	6
L89	T89	SUN	1	7	7
L89	T90	MON	2	8	8
L89	T89	TUE	2	9	9
L89	T90	WED	2	10	10
L89	T89	THU	2	11	11
L89	T90	FRI	2	12	12
L89	T89	SAT	2	13	13
L89	T90	SUN	2	14	14
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L90	T89	TUE	1	2	2
L90	T90	WED	1	3	3
L90	T89	THU	1	4	4
L90	T90	FRI	1	5	5
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L90	T90	SUN	1	7	7
L90	T89	MON	2	8	8
L90	T90	TUE	2	9	9
L90	T89	WED	2	10	10
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L90	T89	FRI	2	12	12
L90	T90	SAT	2	13	13
L90	T89	SUN	2	14	14
L91	T91	MON	1	1	1
L91	T92	TUE	1	2	2
L91	T91	WED	1	3	3
L91	T92	THU	1	4	4
L91	T91	FRI	1	5	5
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L91	T91	SUN	1	7	7
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L91	T91	TUE	2	9	9
L91	T92	WED	2	10	10
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L91	T92	FRI	2	12	12
L91	T91	SAT	2	13	13
L91	T92	SUN	2	14	14
L92	T92	MON	1	1	1
L92	T91	TUE	1	2	2
L92	T92	WED	1	3	3
L92	T91	THU	1	4	4
L92	T92	FRI	1	5	5

L99	T100	WED	2	10	10
L99	T99	THU	2	11	11
L99	T100	FRI	2	12	12
L99	T99	SAT	2	13	13
L99	T100	SUN	2	14	14
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L100	T99	TUE	1	2	2
L100	T100	WED	1	3	3
L100	T99	THU	1	4	4
L100	T100	FRI	1	5	5
L100	T99	SAT	1	6	6
L100	T100	SUN	1	7	7
L100	T99	MON	2	8	8
L100	T100	TUE	2	9	9
L100	T99	WED	2	10	10
L100	T100	THU	2	11	11
L100	T99	FRI	2	12	12
L100	T100	SAT	2	13	13
L100	T99	SUN	2	14	14
L101	T101	MON	1	1	1
L101	T102	TUE	1	2	2
L101	T101	WED	1	3	3
L101	T102	THU	1	4	4
L101	T101	FRI	1	5	5
L101	T102	SAT	1	6	6
L101	T101	SUN	1	7	7
L101	T102	MON	2	8	8
L101	T101	TUE	2	9	9
L101	T102	WED	2	10	10
L101	T101	THU	2	11	11
L101	T102	FRI	2	12	12
L101	T101	SAT	2	13	13
L101	T102	SUN	2	14	14
L102	T102	MON	1	1	1
L102	T101	TUE	1	2	2
L102	T102	WED	1	3	3
L102	T101	THU	1	4	4
L102	T102	FRI	1	5	5
L102	T101	SAT	1	6	6
L102	T102	SUN	1	7	7
L102	T101	MON	2	8	8
L102	T102	TUE	2	9	9
L102	T101	WED	2	10	10
L102	T102	THU	2	11	11
L102	T101	FRI	2	12	12
L102	T102	SAT	2	13	13
L102	T101	SUN	2	14	14
L103	T103	MON	1	1	1
L103	T104	TUE	1	2	2
L103	T103	WED	1	3	3
L103	T104	THU	1	4	4

| L103

| T103

| FRI

|

1 |

5

5

L106	T105	SUN	2	14	14
L107	T107	MON	1	1	1
L107	T108	TUE	1	2	2
L107	T107	WED	1	3	3
L107	T108	THU	1	4	4
L107	T107	FRI	1	5	5

L110	T110	TUE	2	9	9
L110	T109	WED	2	10	10
L110	T110	THU	2	11	11
L110	T109	FRI	2	12	12
L110	T110	SAT	2	13	13
L110	T109	SUN	2	14	14
L111	T111	MON	1	1	1
L111	T112	TUE	1	2	2
L111	T111	WED	1	3	3
L111	T112	THU	1	4	4
L111	T111	FRI	1	5	5
L111	T112	SAT	1	6	6
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L111	T112	MON	2	8	8
L111	T111	TUE	2	9	9
L111	T112	WED	2	10	10
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L111	T112	FRI	2	12	12
L111	T111	SAT	2	13	13
L111	T112	SUN	2	14	14
L112	T112	MON	1	1	1
L112	T111	TUE	1	2	2
L112	T112	WED	1	3	3
L112	T111	THU	1	4	4
L112	T112	FRI	1	5	5
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L112	T112	SUN	1	7	7
L112	T111	MON	2	8	8
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L112	T111	WED	2	10	10
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L112	T111	FRI	2	12	12
L112	T112	SAT	2	13	13
L112	T111	SUN	2	14	14
L113	T113	MON	1	1	1
L113	T114	TUE	1	2	2
L113	T113	WED	1	3	3
L113	T114	THU	1	4	4
L113	T113	FRI	1	5	5
L113	T114	SAT	1	6	6
L113	T113	SUN	1	7	7
L113	T114	MON	2	8	8
L113	T113	TUE	2	9	9
L113	T114	WED	2	10	10
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L113	T114	FRI	2	12	12
L113	T113	SAT	2	13	13
L113	T114	SUN	2	14	14
L114	T114	MON	1	1	1
L114	T113	TUE	1	2	2
L114	T114	WED	1	3	3

L114	T113	THU	1	4	4
L114	T114	FRI	1	5	5
L114	T113	SAT	1	6	6
L114	T114	SUN	1	7	7
L114	T113	MON	2	8	8
L114	T114	TUE	2	9	9
L114	T113	WED	2	10	10
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L114	T113	FRI	2	12	12
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L115	T115	MON	1	1	1
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L115	T116	THU	1	4	4
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L115	T115	SUN	1	7	7
L115	T116	MON	2	8	8
L115	T115	TUE	2	9	9
L115	T116	WED	2	10	10
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L115	T116	FRI	2	12	12
L115	T115	SAT	2	13	13
L115	T116	SUN	2	14	14
L116	T116	MON	1	1	1
L116	T115	TUE	1	2	2
L116	T116	WED	1	3	3
L116	T115	THU	1	4	4
L116	T116	FRI	1	5	5
L116	T115	SAT	1	6	6
L116	T116	SUN	1	7	7
L116	T115	MON	2	8	8
L116	T116	TUE	2	9	9
L116	T115	WED	2	10	10
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L116	T115	FRI	2	12	12
L116	T116	SAT	2	13	13
L116	T115	SUN	2	14	14
L117	T117	MON	1	1	1
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L117	T117	WED	1	3	3
L117	T118	THU	1	4	4
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L117	T117	SUN	1	7	7
L117	T118	MON	2	8	8
L117	T117	TUE	2	9	9
L117	T118	WED	2	10	10
L117	T117	THU	2	11	11
L117	T118	FRI	2	12	12

L117	T117	SAT	2	13	13
L117	T118	SUN	2	14	14
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L118	T117	TUE	1	2	2
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L118	T117	THU	1	4	4
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L118	T117	SAT	1	6	6
L118	T118	SUN	1	7	7
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L118	T118	TUE	2	9	9
L118	T117	WED	2	10	10
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L118	T118	SAT	2	13	13
L118	T117	SUN	2	14	14
L119	T119	MON	1	1	1
L119	T120	TUE	1	2	2
L119	T119	WED	1	3	3
L119	T120	THU	1	4	4
L119	T119	FRI	1	5	5
L119	T120	SAT	1	6	6
L119	T119	SUN	1	7	7
L119	T120	MON	2	8	8
L119	T119	TUE	2	9	9
L119	T120	WED	2	10	10
L119	T119	THU	2	11	11
L119	T120	FRI	2	12	12
L119	T119	SAT	2	13	13
L119	T120	SUN	2	14	14
L120	T120	MON	1	1	1

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L128	T128	SAT	2	13	13
L128	T127	SUN	2	14	14
L129	T129	MON	1	1	1
L129	T130	TUE	1	2	2
L129	T129	WED	1	3	3
L129	T130	THU	1	4	4
L129	T129	FRI	1	5	5
L129	T130	SAT	1	6	6
L129	T129	SUN	1	7	7
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L130	T130	WED	1	3	3
L130	T129	THU	1	4	4
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L130	T130	SUN	1	7	7
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L130	T129	FRI	2	12	12
L130	T130	SAT	2	13	13
L130	T129	SUN	2	14	14
L131	T131	MON	1	1	1
L131	T132	TUE	1	2	2
L131	T131	WED	1	3	3
L131	T132	THU	1	4	4
L131	T131	FRI	1	5	5
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L131	T131	SUN	1	7	7
L131	T132	MON	2	8	8
L131	T131	TUE	2	9	9
L131	T132	WED	2	10	10
L131	T131	THU	2	11	11
L131	T132	FRI	2	12	12
L131	T131	SAT	2	13	13
L131	T132	SUN	2	14	14
L132	T132	MON	1	1	1
L132	T131	TUE	1	2	2

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L132	T132	SUN	1	7	7
L132	T131	MON	2	8	8
L132	T132	TUE	2	9	9
L132	T131	WED	2	10	10
L132	T132	THU	2	11	11

L136	T135	TUE	1	2	2
L136	T136	WED	1	3	3
L136	T135	THU	1	4	4
L136	T136	FRI	1	5	5
L136	T135	SAT	1	6	6
L136	T136	SUN	1	7	7
L136	T135	MON	2	8	8
L136	T136	TUE	2	9	9
L136	T135	WED	2	10	10
L136	T136	THU	2	11	11
L136	T135	FRI	2	12	12
L136	T136	SAT	2	13	13
L136	T135	SUN	2	14	14
L137	T137	MON	1	1	1
L137	T138	TUE	1	2	2
L137	T137	WED	1	3	3
L137	T138	THU	1	4	4
L137	T137	FRI	1	5	5
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L137	T137	SUN	1	7	7
L137	T138	MON	2	8	8
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L137	T138	WED	2	10	10
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L137	T138	FRI	2	12	12
L137	T137	SAT	2	13	13
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L138	T138	WED	1	3	3
L138	T137	THU	1	4	4
L138	T138	FRI	1	5	5
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L138	T138	SUN	1	7	7
L138	T137	MON	2	8	8
L138	T138	TUE	2	9	9

L139	T139	THU	2	11	11
L139	T140	FRI	2	12	12
L139	T139	SAT	2	13	13

L143	T144	SAT	1	6	6
L143	T143	SUN	1	7	7
L143	T144	MON	2	8	8
L143	T143	TUE	2	9	9
L143	T144	WED	2	10	10
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L143	T144	FRI	2	12	12
L143	T143	SAT	2	13	13
L143	T144	SUN	2	14	14
L144	T144	MON	1	1	1
L144	T143	TUE	1	2	2
L144	T144	WED	1	3	3
L144	T143	THU	1	4	4
L144	T144	FRI	1	5	5
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L144	T144	SUN	1	7	7
L144	T143	MON	2	8	8
L144	T144	TUE	2	9	9
L144	T143	WED	2	10	10
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L144	T143	FRI	2	12	12
L144	T144	SAT	2	13	13
L144	T143	SUN	2	14	14
L145	T145	MON	1	1	1
L145	T146	TUE	1	2	2
L145	T145	WED	1	3	3
L145	T146	THU	1	4	4
L145	T145	FRI	1	5	5
L145	T146	SAT	1	6	6
L145	T145	SUN	1	7	7
L145	T146	MON	2	8	8
L145	T145	TUE	2	9	9
L145	T146	WED	2	10	10
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L145	T146	FRI	2	12	12
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L145	T146	SUN	2	14	14
L146	T146	MON	1	1	1
L146	T145	TUE	1	2	2
L146	T146	WED	1	3	3
L146	T145	THU	1	4	4
L146	T146	FRI	1	5	5
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L146	T146	SUN	1	7	7
L146	T145	MON	2	8	8
L146	T146	TUE	2	9	9
L146	T145	WED	2	10	10
L146	T146	THU	2	11	11
L146	T145	FRI	2	12	12
L146	T146	SAT	2	13	13
L146	T145	SUN	2	14	14

L147	T147	MON	1	1	1
L147	T148	TUE	1	2	2
L147	T147	WED	1	3	3
L147	T148	THU	1	4	4
L147	T147	FRI	1	5	5
L147	T148	SAT	1	6	6
L147	T147	SUN	1	7	7
L147	T148	MON	2	8	8
L147	T147	TUE	2	9	9
L147	T148	WED	2	10	10
L147	T147	THU	2	11	11
L147	T148	FRI	2	12	12
L147	T147	SAT	2	13	13
L147	T148	SUN	2	14	14
L148	T148	MON	1	1	1

L148 T148MON

15.9(8

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14	14

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L157	T158	SUN	2	14	14
L158	T158	MON	1	1	1

L168	T168	SAT	2	13	13
L168	T167	SUN	2	14	14

L172	T171	MON	2	8	8
L172	T172	TUE	2	9	9
L172	T171	WED	2	10	10
L172	T172	THU	2	11	11
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L172	T172	SAT	2	13	13
L172	T171	SUN	2	14	14
L173	T173	MON	1	1	1
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L173	T173	WED	1	3	3
L173	T174	THU	1	4	4
L173	T173	FRI	1	5	5
L173	T174	SAT	1	6	6
L173	T173	SUN	1	7	7
L173	T174	MON	2	8	8
L173	T173	TUE	2	9	9
L173	T174	WED	2	10	10
L173	T173	THU	2	11	11
L173	T174	FRI	2	12	12
L173	T173	SAT	2	13	13
L173	T174	SUN	2	14	14
L174	T174	MON	1	1	1
L174	T173	TUE	1	2	2
L174	T174	WED	1	3	3
L174	T173	THU	1	4	4
L174	T174	FRI	1	5	5
L174	T173	SAT	1	6	6
L174	T174	SUN	1	7	7
L174	T173	MON	2	8	8
L174	T174	TUE	2	9	9
L174	T173	WED	2	10	10
L174	T174	THU	2	11	11
L174	T173	FRI	2	12	12
L174	T174	SAT	2	13	13
L174	T173	SUN	2	14	14
L175	T175	MON	1	1	1
L175	T176	TUE	1	2	2
L175	T175	WED	1	3	3
L175	T176	THU	1	4	4
L175	T175	FRI	1	5	5
L175	T176	SAT	1	6	6
L175	T175	SUN	1	7	7
L175	T176	MON	2	8	8
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L175	T176	WED	2	10	10
L175	T175	THU	2	11	11
L175	T176	FRI	2	12	12
L175	T175	SAT	2	13	13
L175	T176	SUN	2	14	14
L176	T176	MON	1	1	1
L176	T175	TUE	1	2	2

L176

T176

WED

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3

3

L183	T183	SUN	1	7	7
L183	T184	MON	2	8	8
L183	T183	TUE	2	9	9
L183	T184	WED	2	10	10
L183	T183	THU	2	11	11
L183	T184	FRI	2	12	12
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L183	T184	SUN	2	14	14
L184	T184	MON	1	1	1
L184	T183	TUE	1	2	2
L184	T184	WED	1	3	3
L184	T183	THU	1	4	4
L184	T184	FRI	1	5	5
L184	T183	SAT	1	6	6
L184	T184	SUN	1	7	7
L184	T183	MON	2	8	8
L184	T184	TUE	2	9	9
L184	T183	WED	2	10	10
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L184	T183	FRI	2	12	12
L184	T184	SAT	2	13	13
L184	T183	SUN	2	14	14
L185	T185	MON	1	1	1
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L190	T190	THU	2	11	11
L190	T189	FRI	2	12	12
L190	T190	SAT	2	13	13
L190	T189	SUN	2	14	14
L191	T191	MON	1	1	1
L191	T192	TUE	1	2	2
L191	T191	WED	1	3	3
L191	T192	THU	1	4	4
L191	T191	FRI	1	5	5
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L191	T192	FRI	2	12	12
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L192	T192	WED	1	3	3
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L192	T192	SUN	1	7	7
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L192	T191	WED	2	10	10
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L192	T191	FRI	2	12	12
L192	T192	SAT	2	13	13
L192	T191	SUN	2	14	14
L193	T193	MON	1	1	1
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L193	T194	THU	1	4	4
L193	T193	FRI	1	5	5
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L193	T193	SUN	1	7	7
L193	T194	MON	2	8	8
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L193	T194	WED	2	10	10
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L193	T194	FRI	2	12	12
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L194	T194	MON	1	1	1
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L194	T194	WED	1	3	3
L194	T193	THU	1	4	4
L194	T194	FRI	1	5	5

L198	T198	MON	1	1	1
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L198	T198	WED	1	3	3
L198	T197	THU	1	4	4
L198	T198	FRI	1	5	5
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L198	T198	SUN	1	7	7
L198	T197	MON	2	8	8
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L198	T197	WED	2	10	10
L198	T198	THU	2	11	11
L198	T197	FRI	2	12	12
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L199	T199	MON	1	1	1
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L199	T199	WED	1	3	3
L199	T200	THU	1	4	4
L199	T199	FRI	1	5	5

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L201	T202	FRI	2	12	12
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L202	T201	THU	1	4	4
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L202	T202	TUE	2	9	9
L202	T201	WED	2	10	10
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L202	T201	FRI	2	12	12
L202	T202	SAT	2	13	13
L202	T201	SUN	2	14	14
L203	T203	MON	1	1	1
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L203	T203	WED	1	3	3
L203	T204	THU	1	4	4
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L203	T204	SAT	1	6	6
L203	T203	SUN	1	7	7
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L203	T204	WED	2	10	10
L203	T203	THU	2	11	11
L203	T204	FRI	2	12	12
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L203	T204	SUN	2	14	14
L204	T204	MON	1	1	1
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L204	T204	WED	1	3	3
L204	T203	THU	1	4	4
L204	T204	FRI	1	5	5
L204	T203	SAT	1	6	6
L204	T204	SUN	1	7	7
L204	T203	MON	2	8	8
L204	T204	TUE	2	9	9

L205	T205	FRI	1	5	5
L205	T206	SAT	1	6	6
L205	T205	SUN	1	7	7
L205	T206	MON	2	8	8
L205	T205	TUE	2	9	9
L205	T206	WED	2	10	10
L205	T205	THU	2	11	11
L205	T206	FRI	2	12	12
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L205	T206	SUN	2	14	14
L206	T206	MON	1	1	1
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L206	T205	THU	1	4	4
L206	T206	FRI	1	5	5
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L206	T205	WED	2	10	10
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L206	T205	FRI	2	12	12
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L207	T208	MON	2	8	8
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L207	T208	WED	2	10	10
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L208	T208	FRI	1	5	5
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L208	T208	SUN	1	7	7
L208	T207	MON	2	8	8
L208	T208	TUE	2	9	9
L208	T207	WED	2	10	10
L208	T208	THU	2	11	11
L208	T207	FRI	2	12	12
L208	T208	SAT	2	13	13

L208	T207	SUN	2	14	14
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L209	T209	WED	1	3	3
L209	T210	THU	1	4	4
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L209	T210	WED	2	10	10
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L209	T210	FRI	2	12	12
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L209	T210	SUN	2	14	14
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L210	T209	THU	1	4	4
L210	T210	FRI	1	5	5
L210	T209	SAT	1	6	6

L210	T209	MON	2	8	8
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L210	T209	WED	2	10	10
L210	T210	THU	2	11	11
L210	T209	FRI	2	12	12
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L210	T209	SUN	2	14	14
L211	T211	MON	1	1	1
L211	T212	TUE	1	2	2
L211	T211	WED	1	3	3
L211	T212	THU	1	4	4
L211	T211	FRI	1	5	5
L211	T212	SAT	1	6	6

| L212 | T212 | TUE | 2 | 9 | 9 |

Y13	\$3.04
Y14	\$3.00
Y15	\$3.12
Y16	\$3.28
Y17	\$2.96
Y18	\$2.96
Y19	\$3.04
Y20	\$2.94
Y21	\$3.22
Y22	\$3.14
Y23	\$3.04
Y24	\$3.10
Y25	\$2.96
Y26	\$3.32
Y27	\$3.18
Y28	\$3.20
Y29	\$3.20
Y30	\$3.20
Y31	\$2.92
Y32	\$2.94
Y33	\$2.92
Y34	\$2.94
Y35	\$3.28
Y36	\$3.28
Y37	\$3.28

Y64	\$2.98
Y65	\$3.22
Y66	\$3.10
Y67	\$3.04
Y68	\$2.92
Y69	\$3.22
Y70	\$3.22
Y71	\$3.04
Y72	\$3.14
Y73	\$3.24