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Locomotive Fuelling Problem (LFP) in Railroad Operations

by

Bodhibrata Nag

Associate Professor, Indian Institute of Management Calcutta, Diamond Harbour Road,
Joka P.O., Kolkata 700 104 India

&

Katta G.Murty

Professor, Industrial & Operations Engineering Department, University of Michigan,
Ann Arbor, MI-48109-2117

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Bodhibrata Nag¹ & Katta G.Murty²

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) now-a-days there is intense competition in the commodities transport industry, and in order to survive in the business, companies have to keep their charges low. Consequently they have to keep their operating costs low.

About 75% of transport by railroads in the world is based on diesel locomotives, the remaining 25% is mostly running on electrified track. Almost all the goods transport by rail in the US is powered by diesel locomotives. The situation in Europe is the reverse, where almost all of it is on electrified track. This case study deals with minimizing the fuel costs in goods transport powered by diesel locomotives. One of the major components in the operating cost of diesel powered rail transport industry is the cost of fuel. This case study deals with minimizing the cost of fuel and the cost of contracting trucks that deliver the fuel to the locomotives used.

¹ Indian Institute of Management Calcutta, Kolkata-700104, India & Fulbright-Nehru Senior Research Fellow at University of Michigan, Ann Arbor, MI, bnag@iimcal.ac.in;

²IOE, University of Michigan, Ann Arbor, MI-48109-2117, murty@umich.edu

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

to start on the very first trip with any feasible amount of fuel without any cost incurred; the locomotive should be left with the same amount of fuel after completing the last trip in the planning horizon.

Desired Outputs

We need to determine: (a) which yards will serve as fuelling points for the locomotives (these yards, where refueling trucks are contracted are called “**committed yards**” in this paper), (b) which yard will be used to refuel the locomotive hauling each train, (c) the days and the amount of fuel loaded at each yard used as refueling point for each train, (d) the number of fueling trucks contracted at each yard, (e) and the amount of fuel (in gallons) in each locomotive tank at the beginning of the planning horizon. We need to minimize the total cost = fuel costs + fueling truck contracting costs + setup costs for refueling.

3 Discussion on methods used for solving this problem

Typically when faced with a problem like this, OR specialists will try to build a mathematical model for it (the appropriate model for this problem will be an MIP (mixed integer programming) model). For solving an MIP model, the company needs to have access to a software package like CPLEX, and that many railroad companies may not have access to such packages.

So we started looking for an approach which is much simpler to solve the case study problem, which gives comparable results and scales up easily to problems of the size encountered in real world applications. However, for the sake of comparison, we developed a mathematical model for this case study problem and solved it using CPLEX. We discuss this model and the results from it in Section 6.

We then developed a greedy algorithm for the LFP, which meets all these requirements (see [1] for a description of greedy methods). The first step in developing a greedy method for solving this problem is to develop a “**greediness criterion**” for the decisions to be made in it. Keeping the objective function to be minimized in the problem in mind, there are two greediness criteria that we can use for selecting yard i as a refueling yard for a route:

$GC1_p$ = fuel cost incurred at yard p for the route, if yard p is selected as a refueling yard

$GC2_p = (\text{fuel cost incurred at yard } p \text{ for the route}) + (\text{incremental truck contracting cost at this stage, if yard } p \text{ is selected as a refueling yard for this route})$

In the following section, we will discuss the greedy algorithm developed for the problem based on GC1.

4. Description of the greedy algorithm, Algorithm1, using GC1 as the greediness criterion

The decisions in this algorithm are made in the specific order given below, one route at a time.

i. Partitioning the set of routes into various labeled categories

There are several pairs of yards $\{y_i, y_j\}$ such that (y_i, y_j) and (y_j, y_i) are both routes and this pair of routes are operated by a pair of locomotives dedicated to these routes only, each locomotive hauling one of these pairs alternately on alternate days. Route pairs of this type are classified into a set or **category** labeled R_1 . The set R_2 consists of the remaining routes.

R_1 is again partitioned into R_{11} (for these, full locomotive tank capacity is insufficient to cover the round-trip distance from origin to destination and back), R_{12} (for these a full locomotive tank capacity is sufficient to cover the round-trip distance from origin to destination and back). In the case study problem, $R_{11} = \emptyset$, R_{12} contains 59% of all the routes with 33% of all the mileage in the problem.

R_2 consists of route pairs, with at least one stop at an intermediate yard in the forward or reverse direction or both, each operated by a dedicated pair of locomotives hauling in each direction alternately. R_2 is again partitioned into R_{21} (for these, a full locomotive tank capacity is sufficient to cover the entire round trip pair; this contains 28% of all the routes covering 33% of all the mileage in the problem), and R_{22} are the remaining (in each route pair here, at least one refueling is needed in each direction; this set contains 12% of all the routes covering 34% of all the mileage in the problem).

Therefore we will adopt the policy of refueling locomotives serving routes in categories R_{12} and R_{21} at most once in each round trip pair of routes and those in categories R_{11} and R_{22} at least once on each origin to destination route in this category.

ii. Identifying refueling yards for routes in each Category in Algorithm1

Here we discuss how this method selects the refueling yards to be used on each route; but not the actual refueling plan for each locomotive which will be discussed in sub-section (iv). Clearly each route in $R_1 = R_{12}$ in the case study problem can only be refueled on any day at the origin yard of route hauled on that day, if we choose to refuel it on that day. Also, each locomotive on these routes in R_{12} need not be refueled every day. We will now discuss how the refueling yards on each route in this algorithm, for each category of yards separately.

Category R_{11} : For the routes belonging to set R_{11} in a general problem, there is no choice other than to refuel the locomotive at the origin yards of all trains hauled over the planning horizon on these routes. Thus the origin yards of all routes in set R_{11} will be refueling yards and refueling trucks are committed to be positioned at these yards.

Category R_{12} : Initially define current $R'_{12} = R_{12}$, $S'_{12} =$ set of origin yards for routes in R'_{12} and $Y'_{12} =$ yard with the cheapest fuel cost among those in S'_{12} . For each route in R'_{12} for which Y'_{12} is the origin yard, fix Y'_{12} as the committed refueling yard, and delete those routes from the set R'_{12} . If R'_{12} is now \emptyset , go to the next category. Otherwise update S'_{12} , Y'_{12} using the current R'_{12} and repeat this step.

Category R_{21} : For each route pair in this category, on every route if there are no previously committed yards amongst the set of yards visited by it, the yard having the cheapest fueling cost on it will be fixed as the committed refueling yard. If there is a committed yard Y_k on this route-pair (i.e. the yard Y_k has been committed as a refueling yard earlier) and if Y_k has the cheapest fuel cost on this route, then commit this yard Y_k as the refueling yard for the route pair. On the other hand, if the cheapest fuel cost yard on this route-pair is Y_p not in the committed list, compute $s_{kp} =$ saving in fuel cost by fueling this route-pair at Y_p rather than Y_k , $=$ (fuel cost at yard Y_k - fuel cost at yard Y_p) \times (fuel requirement for the roundtrip route pair). If $s_{kp} \leq 8000$, which is the total truck contracting cost, then this route will be fueled at the previously committed fuel station Y_k . Else it will be refueled at the yard Y_p which will now be added to the committed refueling yard list. This procedure is repeated for all category R_{21} route-pairs.

Category R_{22} : In each of the route pairs in this set, at least one refueling is needed in each direction.

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), and compute $f_{ik} =$ (fuel consumption on the portion of the route-pair from y_i to y_k)(cost of fuel per gallon at y_k) + (fuel consumption on the portion of the route-pair from y_k to y_i)(cost of fuel per gallon at y_i). Among all feasible pairs $\{y_i, y_k\}$, choose that pair corresponding to the lowest value of f_{ik} as the pair of committed refueling yards for the route-pair under consideration. This procedure is repeated for all category R_{22} route-pairs.

iii. Determining initial fuel FI, at origin yards for routes, in Algorithm1

If the originating yard for the route at the beginning of the planning cycle is a committed yard, the initial fuel FI at it is zero. If the originating yard for the route at the beginning of the planning cycle is not a committed yard, the initial fuel FI at it is the fuel required to reach the first committed refueling yard on it from the origin.

iv. Fueling Plan of Locomotives & Number of trucks contracted at Committed Yards in Algorithm1

Once a setup cost for refueling the locomotive is incurred, the greedy method tries to take the full advantage of it by filling the locomotive to full capacity. This principle helps us to determine the fuel loaded at each refueling stop of each locomotive.

So fill up the locomotive tank at the first refueling yard on the route, to the full capacity of the locomotive fuel tank. At subsequent committed refueling yards on this route, refuel to the full capacity of the locomotive fuel tank for Category R_{11} and R_{22} routes. For category R_{12} and R_{21} routes, refuel to full tank capacity at every

$$\left\lceil \frac{\text{Locomotive tank capacity}}{(\text{fuel consumption rate in gallons per mile})(\text{round trip mileage})} \right\rceil \text{ round trips.}$$

At the last refueling yard in the planning horizon, refuel only to the extent that a balance fuel equal to the initial amount of fuel, FI for this route, is left in the locomotive fuel tank.

Using the fueling plan obtained above and the given information on yards visited on each route on each day of the planning horizon, the fuel dispensed at each committed yard on each day of the planning horizon is computed. The number of fueling trucks contracted at any committed yard y_i is determined by the formula $\left\lceil \frac{p_i}{q} \right\rceil$, where p_i is the maximum of the daily fuel dispensed at the committed yard y_i obtained in the above procedure, and $q = 25000$ gallons is the maximum capacity of each fueling truck.

4.1 Highlights of solution obtained by Algorithm1

The solution consists of 36 committed refueling yards and total number of trucks contracted at them is 44(number of contracted trucks varies from 1 to 3 at different committed yards). The total cost in the solution is \$11.42 million, of which the cost of fuel is \$10.75 million, operating costs of fueling trucks is \$0.35 million and fueling setup cost is \$0.32 million. The utilization of the fueling trucks over the planning horizon varies from a minimum of 3% to 60%. Algorithm1 was coded on C language, which takes about 0.5 seconds for compiling and solution on a 1.6 GHz computer.

Considering the mileage of each route, and the lowest fuel cost of the yards visited on each route, the total fuel cost in any solution is guaranteed to be \geq \$10.7 million. The total fuel cost in the solution obtained in Algorithm1 is \$10.75 million. The fuel cost is 94% of the total cost in our solution. From this we can conclude that the solution obtained by Algorithm1 is nearly optimal.

5. Description of the greedy algorithm, Algorithm2, using GC2 as the greediness criterion

Partitioning of set of routes into various categories of routes is the same as in Algorithm1, Section 4.

This algorithm differs from Algorithm1 of Section 4 in the greediness criterion used for selecting refueling yards for various routes. Also in this algorithm, in contrast to Algorithm1, since the selection of the refueling yard on each route is based on the greediness criterion GC2, it requires determining the amount of fuel to be dispensed at each yard on each day of

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 decisions to be made in this problem are: the set of yards which will serve as refueling yards, the yard(s) where each locomotive will refuel, the days on which this refueling will take place and the quantity of fuel loaded at each refueling, and the number of fuel trucks contracted at each refueling station. The problem of making all these decisions to minimize the total cost = fuel cost + setup costs for refuelings + truck contracting costs can be modeled as a MIP (mixed integer programming) model, but it leads to a model with many 0-1 variables, and may take a long time to solve.

The MIP model can be simplified by using the partition of the 214 routes for the trains into the three categories R_{12} , R_{21} and R_{22} discussed above; and using the information: each locomotive serving the routes in category R_{12} needs to be refueled only periodically as discussed in the previous section, that each locomotive serving routes in category R_{21} needs to be refueled only once on each round trip, that each locomotive serving routes in the category R_{22} needs to be refueled only once in each direction of each roundtrip, and that each locomotive is filled to capacity at each refueling. Also we notice that the fuel cost is the major element in the total cost; and all the other costs put together are only a small fraction of the fuel cost. If we take the fuel cost as the objective function to minimize, the model becomes even much simpler.

Here is the MIP model for the simplified version of the problem. In the following when we talk about “refueling on a route p ”, it refers to “refueling of a locomotive serving route p ”. Since each route pair is served by a unique pair of locomotives, given the planning horizon of 14 days, we conclude that both locomotives serving any route pair, will log equal distance by the end.

Indices used:

p : index used for routes, $p=1$ to 214

j : index used for yards, $j=1$ to 73

k : index used for routes in the forward or reverse direction between a pair of terminal yards for trains in R_{22} category, $k=1,2$

Notation for data elements:

S_p : set of yards on route p

c_j : fuel cost at yard j in terms of \$/mile= (\$/gallon)(3.5 gallons/mile)

m_p : total distance covered by route serving p in entire 2-week planning horizon

Decision Variables: All the decision variables are binary:

$y_{12pj} = 1$, if refuelling for category R_{12} route p is carried out at yard j
 $= 0$, otherwise

$y_{21pj} = 1$, if refuelling for category R_{21} route p is carried out at yard j
 $= 0$, otherwise

$y_{22pjk} = 1$, if refuelling for category R_{22} route p in direction k is carried out at feasible yard j
 $= 0$, otherwise

$y_{pj} = 1$, if the j th feasible yard refuels category R_{22} route p
 $= 0$, otherwise

$x_j = 1$, if refuelling trucks are committed at yard j
 $= 0$, otherwise

The Objective Function to minimize is:

Minimize $\sum_{p \in R_{12}, j \in S_p} y_{12pj} c_j m_p + \sum_{p \in R_{21}, j \in S_p} y_{21pj} c_j m_p + \sum_{p \in R_{22}, j \in S_p} \sum_{k=1}^2 (y_{22pjk} c_j) m_p$

Subject to the Constraints:

- (1) $\sum_{j \in S_p} y_{12pj} = 1$, for all $p \in R_{12}$
- (2) $\sum_{j \in S_p} x_j \geq 1$, for all $p \in R_{12}$
- (3) $y_{12pj} \leq x_j$, for all $p \in R_{12}, j \in S_p$
- (4) $\sum_{j \in S_p} y_{21pj} = 1$, for all $p \in R_{21}$
- (5) $\sum_{j \in S_p} x_j \geq 1$, for all $p \in R_{21}$
- (6) $y_{21pj} \leq x_j$, for all $p \in R_{21}, j \in S_p$
- (7) $\sum_{j \in S_p} \sum_{k=1}^2 y_{22pjk} = 2$, for all $p \in R_{22}$
- (8) $\sum_{j \in S_p} x_j \geq 2$, for all $p \in R_{22}$
- (9) $y_{22pjk} \leq x_j$, for all $p \in R_{22}, j \in S_p, k \in \{1,2\}$
- (10) $\sum_{k=1}^2 y_{22pjk} = 2y_{pj}$, for all $p \in R_{22}, j \in S_p$

Explanation of the constraints: Constraints (1),(2) and (3) come from the fact that each locomotive serving on a route in category R_{12} is to be refueled at one of the two terminal nodes between which the locomotive goes back and forth, that refueling trucks are to be committed at that yard for refueling. Constraints (4),(5) and (6) come from the corresponding facts for locomotives serving routes in category R_{21} . Constraint (7) corresponds to the fact that each locomotive serving a route in category R_{22} requires refueling once in each direction of the route. Constraint (8) is similar to earlier constraints (2) and (5); and (9) is similar to (3) and (6). Constraint (10) ensures that for category R_{22} only a feasible pair of yards as defined in Section 4 is chosen as a pair of refueling stations for each route pair in R_{22} .

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 computer.

7. Summary

As we have seen from the results obtained in Sections 5 & 6, the results obtained in the greedy method depend on the greediness criteria used for making the decisions. Here is a summary for comparing all three methods:

	Greedy Method with GC1	Greedy Method with GC2	MIP Model
No. of yards where refueling trucks are committed in the optimal solution	36	33	41
Total no. of trucks contracted in the optimal solution	44	39	49
Total truck contracting cost in the optimal solution(million \$)	0.35	0.31	0.39
Total Fuel Cost in the optimal solution (million \$)	10.75*	10.96	10.84*
Total refueling setup cost in the optimal solution(million \$)	0.32	0.35	0.33

Total cost in the optimal solution (million \$)	11.42	11.6	11.56
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* The reason for difference in fuel costs obtained in the solutions of Algorithm1 and the MIP model 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 solution obtained using Algorithm1 with GC1, is comparable to those obtained from the MIP model, and hence the true optimum solution of the problem. Also Algorithm1 is very simple and easy to implement, and scales directly to large scale problems in real world applications.

In the case study problem, greedy method based on GC1 gives better results than that based on GC2. Since fuel cost is over 94% of the overall costs in the optimal solution, GC1 based on fuel cost as greediness criteria works better than GC2. Also since the case study problem is a realistic example of real world problems, we can expect the similar performance in general in practice.

In real world applications it is very likely that there will be more trains on tracks, and consequently most contracted fueling trucks tend to be used to full capacity; and the difference in the total costs associated with GC1 and the MIP-based technique similar to the one discussed in Section 6 may not be much. The greedy method based on either the greediness criteria GC1 or GC2 are very easy to implement, do not need software packages like CPLEX, and take very little CPU time.

In most real world applications, partitioning the trains into categories like R11, R12, R21, R22 like in the case study example; and identifying sections of the track where the locomotive of the train will undergo refueling possibly based on practical logistic considerations, may in fact be the preferred option of railroad managements. Then, if the company does not have access to an MIP software, the greedy method based on GC1 may be the preferred approach for solving the problem. On the other hand if the company has access to a MIP software, a model like the one in Section 6 can be used to model and solve this problem as explained in Chapter 3 of [2].

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8.References:

1. Murty, Katta G. *Operations Research: Deterministic Optimization Models*, Prentice Hall, 1994
2. Murty, Katta G. *Optimization for Decision Making: Linear and Quadratic Models*, Springer, 2010
3. Railway Applications Section (RAS) of INFORMS, Problem Solving Competition-2010 <http://www.informs-ras.org/problem.htm>

Appendix: Data Set

Table: Train Schedule

TrainID	Yard	Yard Sequence	Day of journey (starts at 1)	Station Type
T1	Y25		1	Origin
T1	Y19		2	Destination
T2	Y19		1	Origin
T2	Y25		2	Destination
T3	Y21		1	Origin
T3	Y23		2	Destination
T4	Y23		1	Origin
T4	Y21		2	Destination
T5	Y36		1	Origin
T5	Y60		2	Intermediate
T5	Y62		3	Destination
T6	Y62		1	Origin
T6	Y36		2	Destination
T7	Y43		1	Origin
T7	Y41		2	Intermediate
T7	Y56		3	Intermediate
T7	Y57		4	Intermediate
T7	Y51		5	Destination
T8	Y51		1	Origin
T8	Y57		2	Intermediate
T8	Y56		3	Intermediate
T8	Y41		4	Intermediate
T8	Y43		5	Destination
T9	Y23		1	Origin
T9	Y28		2	Intermediate
T9	Y29		3	Intermediate
T9	Y3		4	Intermediate
T9	Y2		5	Intermediate
T9	Y16		6	Intermediate
T9	Y43		7	Destination
T10	Y43		1	Origin
T10	Y16		2	Intermediate
T10	Y11		3	Intermediate
T10	Y2		4	Intermediate
T10	Y3		5	Intermediate
T10	Y29		6	Intermediate
T10	Y28		7	Intermediate
T10	Y23		8	Destination
T11	Y10		1	Origin
T11	Y7		2	Intermediate
T11	Y2		3	Intermediate
T11	Y12		4	Intermediate
T11	Y30		5	Destination
T12	Y30		1	Origin
T12	Y12		2	Intermediate
T12	Y10		3	Destination

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
T27	Y43	1	1	Origin
T27	Y42	2	1	Intermediate
T27	Y47	3	2	Destination
T28	Y47	1	1	Origin
T28	Y43	2	2	Destination
T29	Y50	1	1	Origin
T29	Y44	2	1	Destination
T30	Y44	1	1	Origin
T30	Y48	2	1	Intermediate
T30	Y50	3	2	Destination
T31	Y23	1	1	Origin
T31	Y28	2	1	Intermediate
T31	Y30	3	1	Destination
T32	Y30	1	1	Origin
T32	Y28	2	1	Intermediate
T32	Y23	3	1	Destination
T33	Y43	1	1	Origin
T33	Y41	2	1	Intermediate
T33	Y56	3	2	Intermediate
T33	Y57	4	2	Intermediate
T33	Y59	5	2	Destination
T34	Y59	1	1	Origin
T34	Y57	2	1	Intermediate
T34	Y56	3	1	Intermediate
T34	Y41	4	2	Intermediate
T34	Y43	5	2	Destination
T35	Y59	1	1	Origin
T35	Y57	2	2	Intermediate
T35	Y55	3	2	Destination
T36	Y55	1	1	Origin
T36	Y57	2	1	Intermediate
T36	Y59	3	2	Destination
T37	Y43	1	1	Origin
T37	Y41	2	1	Intermediate
T37	Y56	3	1	Intermediate
T37	Y57	4	2	Intermediate
T37	Y59	5	2	Destination
T38	Y59	1	1	Origin
T38	Y57	2	1	Intermediate
T38	Y56	3	1	Intermediate
T38	Y41	4	2	Intermediate
T38	Y42	5	2	Intermediate
T38	Y43	6	2	Destination
T39	Y59	1	1	Origin
T39	Y34	2	1	Intermediate
T39	Y17	3	1	Intermediate
T39	Y20	4	2	Intermediate

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
T54	Y30	3	2	Destination
T55	Y69	1	1	Origin
T55	Y30	2	1	Intermediate
T55	Y12	3	2	Intermediate
T55	Y2	4	2	Intermediate

T55	Y1	5	2	Destination
T56	Y1	1	1	Origin
T56	Y2	2	2	Intermediate
T56	Y12	3	2	Intermediate
T56	Y30	4	2	Intermediate
T56	Y69	5	2	Destination
T57	Y60	1	1	Origin
T57	Y48	2	2	Destination
T58	Y48	1	1	Origin
T58	Y60	2	2	Destination
T59	Y50	1	1	Origin
T59	Y48	2	2	Intermediate
T59	Y38	3	2	Intermediate
T59	Y15	4	2	Intermediate
T59	Y1	5	2	Destination
T60	Y1	1	1	Origin
T60	Y38	2	1	Intermediate
T60	Y50	3	2	Destination
T61	Y34	1	1	Origin
T61	Y59	2	1	Destination
T62	Y59	1	1	Origin
T62	Y34	2	2	Destination
T63	Y45	1	1	Origin
T63	Y17	2	2	Destination
T64	Y17	1	1	Origin
T64	Y45	2	2	Destination
T65	Y60	1	1	Origin
T65	Y45	2	1	Destination
T66	Y45	1	1	Origin
T66	Y60	2	2	Destination
T67	Y45	1	1	Origin
T67	Y32	2	2	Destination
T68	Y32	1	1	Origin
T68	Y45	2	2	Destination
T69	Y45	1	1	Origin
T69	Y15	2	1	Destination
T70	Y15	1	1	Origin
T70	Y45	2	1	Destination
T71	Y46	1	1	Origin
T71	Y48	2	1	Destination
T72	Y48	1	1	Origin
T72	Y46	2	1	Destination
T73	Y43	1	1	Origin
T73	Y50	2	1	Destination
T74	Y50	1	1	Origin
T74	Y43	2	2	Destination
T75	Y36	1	1	Origin
T75	Y60	2	2	Destination
T76	Y60	1	1	Origin
T76	Y36	2	2	Destination
T77	Y49	1	1	Origin

T77	Y48	2	1	Destination
T78	Y48	1	1	Origin
T78	Y49	2	1	Destination
T79	Y60	1	1	Origin
T79	Y41	2	1	Destination
T80	Y41	1	1	Origin
T80	Y60	2	1	Destination
T81	Y41	1	1	Origin
T81	Y32	2	2	Destination
T82	Y32	1	1	Origin
T82	Y41	2	2	Destination
T83	Y60	1	1	Origin
T83	Y41	2	1	Intermediate
T83	Y32	3	2	Destination
T84	Y32	1	1	Origin
T84	Y40	2	1	Intermediate
T84	Y60	3	2	Destination
T85	Y60	1	1	Origin
T85	Y15	2	1	Destination
T86	Y15	1	1	Origin
T86	Y60	2	1	Destination
T87	Y43	1	1	Origin
T87	Y42	2	1	Intermediate
T87	Y57	3	2	Destination
T88	Y57	1	1	Origin
T88	Y56	2	2	Intermediate
T88	Y44	3	2	Intermediate
T88	Y43	4	2	Destination
T89	Y48	1	1	Origin
T89	Y41	2	1	Destination
T90	Y41	1	1	Origin
T90	Y48	2	2	Destination
T91	Y64	1	1	Origin
T91	Y19	2	1	Intermediate
T91	Y32	3	2	Destination
T92	Y32	1	1	Origin
T92	Y19	2	2	Intermediate
T92	Y64	3	2	Destination
T93	Y34	1	1	Origin
T93	Y19	2	2	Destination
T94	Y19	1	1	Origin
T94	Y17	2	1	Intermediate
T94	Y33	3	2	Intermediate
T94	Y34	4	2	Destination
T95	Y57	1	1	Origin
T95	Y33	2	2	Intermediate
T95	Y17	3	2	Intermediate
T95	Y27	4	2	Destination
T96	Y27	1	1	Origin
T96	Y22	2	2	Intermediate
T96	Y33	3	2	Intermediate

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
T102	Y57	2	2	Destination
T103	Y57	1	1	Origin
T103	Y54	2	2	Destination
T104	Y54	1	1	Origin
T104	Y57	2	2	Destination
T105	Y57	1	1	Origin
T105	Y53	2	2	Destination
T106	Y53	1	1	Origin
T106	Y57	2	2	Destination
T107	Y63	1	1	Origin
T107	Y57	2	1	Destination
T108	Y57	1	1	Origin
T108	Y63	2	2	Destination
T109	Y57	1	1	Origin
T109	Y59	2	1	Destination
T110	Y59	1	1	Origin
T110	Y57	2	1	Destination
T111	Y57	1	1	Origin
T111	Y52	2	2	Destination
T112	Y52	1	1	Origin
T112	Y57	2	2	Destination
T113	Y64	1	1	Origin
T113	Y19	2	1	Intermediate
T113	Y34	3	2	Intermediate
T113	Y57	4	2	Destination
T114	Y57	1	1	Origin
T114	Y34	2	1	Intermediate
T114	Y19	3	2	Intermediate
T114	Y64	4	2	Destination
T115	Y72	1	1	Origin
T115	Y66	2	1	Intermediate
T115	Y27	3	1	Destination
T116	Y27	1	1	Origin
T116	Y66	2	1	Intermediate
T116	Y72	3	2	Destination
T117	Y27	1	1	Origin
T117	Y24	2	1	Destination
T118	Y24	1	1	Origin

T118	Y27	2	2	Destination
T119	Y27	1	1	Origin
T119	Y23	2	2	Destination
T120	Y23	1	1	Origin
T120	Y27	2	2	Destination
T121	Y64	1	1	Origin
T121	Y65	2	1	Destination
T122	Y65	1	1	Origin
T122	Y64	2	1	Destination
T123	Y64	1	1	Origin
T123	Y19	2	2	Destination
T124	Y19	1	1	Origin
T124	Y64	2	2	Destination
T125	Y67	1	1	Origin
T125	Y64	2	2	Destination
T126	Y64	1	1	Origin
T126	Y67	2	2	Destination
T127	Y70	1	1	Origin
T127	Y64	2	2	Destination
T128	Y64	1	1	Origin
T128	Y70	2	2	Destination
T129	Y64	1	1	Origin
T129	Y20	2	1	Intermediate
T129	Y27	3	2	Destination
T130	Y27	1	1	Origin
T130	Y64	2	2	Destination
T131	Y15	1	1	Origin
T131	Y48	2	2	Destination
T132	Y48	1	1	Origin
T132	Y15	2	2	Destination
T133	Y1	1	1	Origin
T133	Y15	2	1	Destination
T134	Y15	1	1	Origin
T134	Y1	2	1	Destination
T135	Y2	1	1	Origin
T135	Y60	2	1	Destination
T136	Y60	1	1	Origin
T136	Y2	2	1	Destination
T137	Y3	1	1	Origin
T137	Y2	2	1	Destination
T138	Y2	1	1	Origin
T138	Y3	2	2	Destination
T139	Y13	1	1	Origin
T139	Y3	2	2	Destination
T140	Y3	1	1	Origin
T140	Y13	2	2	Destination
T141	Y10	1	1	Origin
T141	Y2	2	1	Destination
T142	Y2	1	1	Origin
T142	Y10	2	1	Destination
T143	Y10	1	1	Origin

T143	Y2	2	2	Destination
T144	Y2	1	1	Origin
T144	Y10	2	1	Destination
T145	Y2	1	1	Origin
T145	Y10	2	2	Destination
T146	Y10	1	1	Origin
T146	Y2	2	2	Destination
T147	Y15	1	1	Origin
T147	Y30	2	2	Destination
T148	Y30	1	1	Origin
T148	Y15	2	2	Destination
T149	Y15	1	1	Origin
T149	Y28	2	2	Intermediate
T149	Y27	3	2	Destination
T150	Y27	1	1	Origin
T150	Y28	2	1	Intermediate
T150	Y15	3	2	Destination
T151	Y1	1	1	Origin
T151	Y14	2	2	Destination
T152	Y14	1	1	Origin
T152	Y1	2	2	Destination
T153	Y15	1	1	Origin
T153	Y38	2	1	Destination
T154	Y38	1	1	Origin
T154	Y15	2	1	Destination
T155	Y15	1	1	Origin
T155	Y1	2	1	Intermediate
T155	Y2	3	2	Destination
T156	Y2	1	1	Origin
T156	Y1	2	1	Intermediate
T156	Y15	3	2	Destination
T157	Y30	1	1	Origin
T157	Y2	2	2	Destination
T158	Y2	1	1	Origin
T158	Y30	2	2	Destination
T159	Y30	1	1	Origin
T159	Y2	2	1	Destination
T160	Y2	1	1	Origin
T160	Y30	2	2	Destination
T161	Y60	1	1	Origin
T161	Y37	2	2	Destination
T162	Y37	1	1	Origin
T162	Y61	2	2	Intermediate
T162	Y60	3	2	Destination
T163	Y27	1	1	Origin
T163	Y23	2	2	Intermediate
T163	Y71	3	2	Intermediate
T163	Y6	4	2	Destination
T164	Y6	1	1	Origin
T164	Y13	2	2	Intermediate
T164	Y71	3	2	Intermediate

T164	Y23	4	2	Intermediate
T164	Y27	5	2	Destination
T165	Y27	1	1	Origin
T165	Y66	2	2	Destination
T166	Y66	1	1	Origin
T166	Y27	2	2	Destination
T167	Y6	1	1	Origin
T167	Y30	2	2	Destination
T168	Y30	1	1	Origin
T168	Y4	2	2	Intermediate
T168	Y6	3	2	Destination
T169	Y6	1	1	Origin
T169	Y30	2	2	Intermediate
T169	Y64	3	2	Destination
T170	Y64	1	1	Origin
T170	Y69	2	1	Intermediate
T170	Y30	3	1	Intermediate
T170	Y4	4	2	Intermediate
T170	Y6	5	2	Destination
T171	Y58	1	1	Origin
T171	Y57	2	2	Destination
T172	Y57	1	1	Origin
T172	Y58	2	2	Destination
T173	Y56	1	1	Origin
T173	Y57	2	1	Destination
T174	Y57	1	1	Origin
T174	Y55	2	2	Intermediate
T174	Y56	3	2	Destination
T175	Y45	1	1	Origin
T175	Y41	2	2	Destination
T176	Y41	1	1	Origin
T176	Y45	2	2	Destination
T177	Y47	1	1	Origin
T177	Y48	2	1	Destination
T178	Y48	1	1	Origin
T178	Y47	2	1	Destination
T179	Y36	1	1	Origin
T179	Y60	2	1	Destination
T180	Y60	1	1	Origin
T180	Y36	2	1	Destination
T181	Y40	1	1	Origin
T181	Y44	2	2	Destination
T182	Y44	1	1	Origin
T182	Y40	2	2	Destination
T183	Y60	1	1	Origin
T183	Y43	2	1	Destination
T184	Y43	1	1	Origin
T184	Y60	2	2	Destination
T185	Y43	1	1	Origin
T185	Y16	2	2	Intermediate
T185	Y2	3	2	Intermediate

T185	Y3	4	2	Intermediate
T185	Y29	5	2	Intermediate
T185	Y27	6	2	Destination
T186	Y27	1	1	Origin
T186	Y29	2	1	Intermediate
T186	Y2	3	2	Intermediate
T186	Y11	4	2	Intermediate
T186	Y16	5	2	Intermediate
T186	Y43	6	2	Destination
T187	Y30	1	1	Origin
T187	Y69	2	2	Destination
T188	Y69	1	1	Origin
T188	Y30	2	2	Destination
T189	Y64	1	1	Origin
T189	Y30	2	2	Intermediate
T189	Y2	3	2	Destination
T190	Y2	1	1	Origin
T190	Y30	2	1	Intermediate
T190	Y64	3	2	Destination
T191	Y3	1	1	Origin
T191	Y30	2	2	Destination
T192	Y30	1	1	Origin
T192	Y3	2	2	Destination
T193	Y27	1	1	Origin
T193	Y29	2	1	Intermediate
T193	Y2	3	2	Destination
T194	Y2	1	1	Origin
T194	Y3	2	2	Intermediate
T194	Y29	3	2	Intermediate
T194	Y27	4	2	Destination
T195	Y60	1	1	Origin
T195	Y36	2	1	Destination
T196	Y36	1	1	Origin
T196	Y60	2	2	Destination
T197	Y27	1	1	Origin
T197	Y22	2	1	Destination
T198	Y22	1	1	Origin
T198	Y27	2	2	Destination
T199	Y22	1	1	Origin
T199	Y73	2	2	Destination
T200	Y73	1	1	Origin
T200	Y22	2	2	Destination
T201	Y45	1	1	Origin
T201	Y64	2	2	Destination
T202	Y64	1	1	Origin
T202	Y45	2	2	Destination
T203	Y15	1	1	Origin
T203	Y8	2	2	Intermediate
T203	Y9	3	2	Intermediate
T203	Y30	4	2	Intermediate
T203	Y64	5	2	Destination

T204	Y64	1	1	Origin
T204	Y69	2	1	Intermediate
T204	Y30	3	2	Intermediate
T204	Y9	4	2	Intermediate
T204	Y8	5	2	Intermediate
T204	Y15	6	2	Destination
T205	Y34	1	1	Origin
T205	Y59	2	1	Destination
T206	Y59	1	1	Origin
T206	Y34	2	2	Destination
T207	Y66	1	1	Origin
T207	Y22	2	2	Intermediate
T207	Y20	3	2	Intermediate
T207	Y19	4	2	Intermediate
T207	Y17	5	2	Intermediate
T207	Y34	6	2	Intermediate
T207	Y59	7	2	Destination
T208	Y59	1	1	Origin
T208	Y17	2	2	Intermediate
T208	Y19	3	2	Intermediate
T208	Y20	4	2	Intermediate
T208	Y66	5	2	Destination
T209	Y18	1	1	Origin
T209	Y25	2	2	Destination
T210	Y25	1	1	Origin
T210	Y18	2	2	Destination
T211	Y64	1	1	Origin
T211	Y67	2	2	Destination
T212	Y67	1	1	Origin
T212	Y64	2	2	Destination
T213	Y26	1	1	Origin
T213	Y22	2	1	Destination
T214	Y22	1	1	Origin
T214	Y26	2	2	Destination

Table: Yard to Yard Distance

Yard1	Yard2	Distance in Miles
Y1	Y2	186
Y1	Y3	300
Y1	Y4	300
Y1	Y5	300
Y1	Y6	300
Y1	Y7	277
Y1	Y8	293
Y1	Y9	300
Y1	Y10	300
Y1	Y11	146
Y1	Y12	300
Y1	Y13	300

Y1	Y14	106
Y1	Y15	117
Y1	Y16	300
Y1	Y17	300
Y1	Y18	300
Y1	Y19	300
Y1	Y20	300
Y1	Y21	300
Y1	Y22	300
Y1	Y23	300
Y1	Y24	300
Y1	Y25	300
Y1	Y26	300
Y1	Y27	300
Y1	Y28	300
Y1	Y29	300
Y1	Y30	300
Y1	Y31	300
Y1	Y32	300
Y1	Y33	300
Y1	Y34	300
Y1	Y35	283
Y1	Y36	300
Y1	Y37	300
Y1	Y38	245
Y1	Y39	300
Y1	Y40	300
Y1	Y41	300
Y1	Y42	300
Y1	Y43	300
Y1	Y44	300
Y1	Y45	249
Y1	Y46	300
Y1	Y47	300
Y1	Y48	300
Y1	Y49	300
Y1	Y50	300
Y1	Y51	300
Y1	Y52	300
Y1	Y53	300
Y1	Y54	300
Y1	Y55	300
Y1	Y56	300
Y1	Y57	300
Y1	Y58	300
Y1	Y59	300
Y1	Y60	127
Y1	Y61	261
Y1	Y62	277
Y1	Y63	300
Y1	Y64	300

Y1	Y65	300
Y1	Y66	300
Y1	Y67	300
Y1	Y68	300
Y1	Y69	300
Y1	Y70	300
Y1	Y71	300
Y1	Y72	300
Y1	Y73	300
Y2	Y1	186
Y2	Y3	202
Y2	Y4	298
Y2	Y5	300
Y2	Y6	300
Y2	Y7	99
Y2	Y8	300
Y2	Y9	300
Y2	Y10	230
Y2	Y11	158
Y2	Y12	146
Y2	Y13	300
Y2	Y14	181
Y2	Y15	300
Y2	Y16	300
Y2	Y17	300
Y2	Y18	300
Y2	Y19	300
Y2	Y20	300
Y2	Y21	300
Y2	Y22	300
Y2	Y23	300
Y2	Y24	300
Y2	Y25	300
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Y65	Y67	219
Y65	Y68	185
Y65	Y69	104
Y65	Y70	186
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Y65	Y72	300
Y65	Y73	268
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Y66	Y2	300
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Y66	Y69	300
Y66	Y70	300
Y66	Y71	300
Y66	Y72	247
Y66	Y73	300
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Y67	Y65	219
Y67	Y66	300
Y67	Y68	187
Y67	Y69	288
Y67	Y70	173
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Y67	Y73	300
Y68	Y1	300
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Y68	Y63	300
Y68	Y64	76
Y68	Y65	185
Y68	Y66	300
Y68	Y67	187
Y68	Y69	148
Y68	Y70	188
Y68	Y71	300
Y68	Y72	300
Y68	Y73	182
Y69	Y1	300
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Y69	Y27	277
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Y69	Y65	104
Y69	Y66	300
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Y69	Y68	148
Y69	Y70	259
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Y69	Y72	300
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Y70	Y17	300
Y70	Y18	268
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Y70	Y26	192
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Y70	Y63	300
Y70	Y64	111
Y70	Y65	186
Y70	Y66	300
Y70	Y67	173
Y70	Y68	188
Y70	Y69	259
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Y70	Y73	300
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Y71	Y73	300

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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
L1	T1	TUE	2	9	9
L1	T2	WED	2	10	10
L1	T1	THU	2	11	11
L1	T2	FRI	2	12	12
L1	T1	SAT	2	13	13
L1	T2	SUN	2	14	14
L2	T2	MON	1	1	1
L2	T1	TUE	1	2	2
L2	T2	WED	1	3	3
L2	T1	THU	1	4	4
L2	T2	FRI	1	5	5
L2	T1	SAT	1	6	6
L2	T2	SUN	1	7	7
L2	T1	MON	2	8	8
L2	T2	TUE	2	9	9
L2	T1	WED	2	10	10
L2	T2	THU	2	11	11
L2	T1	FRI	2	12	12
L2	T2	SAT	2	13	13
L2	T1	SUN	2	14	14
L3	T3	MON	1	1	1
L3	T4	TUE	1	2	2
L3	T3	WED	1	3	3
L3	T4	THU	1	4	4
L3	T3	FRI	1	5	5
L3	T4	SAT	1	6	6
L3	T3	SUN	1	7	7
L3	T4	MON	2	8	8
L3	T3	TUE	2	9	9
L3	T4	WED	2	10	10
L3	T3	THU	2	11	11
L3	T4	FRI	2	12	12
L3	T3	SAT	2	13	13
L3	T4	SUN	2	14	14
L4	T4	MON	1	1	1
L4	T3	TUE	1	2	2
L4	T4	WED	1	3	3
L4	T3	THU	1	4	4
L4	T4	FRI	1	5	5
L4	T3	SAT	1	6	6
L4	T4	SUN	1	7	7
L4	T3	MON	2	8	8
L4	T4	TUE	2	9	9
L4	T3	WED	2	10	10
L4	T4	THU	2	11	11
L4	T3	FRI	2	12	12
L4	T4	SAT	2	13	13

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

L8	T8	TUE	2	9	9
L8	T7	WED	2	10	10
L8	T8	THU	2	11	11
L8	T7	FRI	2	12	12
L8	T8	SAT	2	13	13
L8	T7	SUN	2	14	14
L9	T9	MON	1	1	1
L9	T10	TUE	1	2	2
L9	T9	WED	1	3	3
L9	T10	THU	1	4	4
L9	T9	FRI	1	5	5
L9	T10	SAT	1	6	6
L9	T9	SUN	1	7	7
L9	T10	MON	2	8	8
L9	T9	TUE	2	9	9
L9	T10	WED	2	10	10
L9	T9	THU	2	11	11
L9	T10	FRI	2	12	12
L9	T9	SAT	2	13	13
L9	T10	SUN	2	14	14
L10	T10	MON	1	1	1
L10	T9	TUE	1	2	2
L10	T10	WED	1	3	3
L10	T9	THU	1	4	4
L10	T10	FRI	1	5	5
L10	T9	SAT	1	6	6
L10	T10	SUN	1	7	7
L10	T9	MON	2	8	8
L10	T10	TUE	2	9	9
L10	T9	WED	2	10	10
L10	T10	THU	2	11	11
L10	T9	FRI	2	12	12
L10	T10	SAT	2	13	13
L10	T9	SUN	2	14	14
L11	T11	MON	1	1	1
L11	T12	TUE	1	2	2
L11	T11	WED	1	3	3
L11	T12	THU	1	4	4
L11	T11	FRI	1	5	5
L11	T12	SAT	1	6	6
L11	T11	SUN	1	7	7
L11	T12	MON	2	8	8
L11	T11	TUE	2	9	9
L11	T12	WED	2	10	10
L11	T11	THU	2	11	11
L11	T12	FRI	2	12	12
L11	T11	SAT	2	13	13
L11	T12	SUN	2	14	14
L12	T12	MON	1	1	1
L12	T11	TUE	1	2	2
L12	T12	WED	1	3	3

L12	T11	THU	1	4	4
L12	T12	FRI	1	5	5
L12	T11	SAT	1	6	6
L12	T12	SUN	1	7	7
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L195	T196	SUN	2	14	14
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L196	T195	TUE	1	2	2
L196	T196	WED	1	3	3
L196	T195	THU	1	4	4
L196	T196	FRI	1	5	5
L196	T195	SAT	1	6	6
L196	T196	SUN	1	7	7
L196	T195	MON	2	8	8
L196	T196	TUE	2	9	9
L196	T195	WED	2	10	10
L196	T196	THU	2	11	11
L196	T195	FRI	2	12	12
L196	T196	SAT	2	13	13
L196	T195	SUN	2	14	14
L197	T197	MON	1	1	1
L197	T198	TUE	1	2	2
L197	T197	WED	1	3	3
L197	T198	THU	1	4	4
L197	T197	FRI	1	5	5
L197	T198	SAT	1	6	6
L197	T197	SUN	1	7	7
L197	T198	MON	2	8	8
L197	T197	TUE	2	9	9
L197	T198	WED	2	10	10
L197	T197	THU	2	11	11
L197	T198	FRI	2	12	12
L197	T197	SAT	2	13	13
L197	T198	SUN	2	14	14

L198	T198	MON	1	1	1
L198	T197	TUE	1	2	2
L198	T198	WED	1	3	3
L198	T197	THU	1	4	4
L198	T198	FRI	1	5	5
L198	T197	SAT	1	6	6
L198	T198	SUN	1	7	7
L198	T197	MON	2	8	8
L198	T198	TUE	2	9	9
L198	T197	WED	2	10	10
L198	T198	THU	2	11	11
L198	T197	FRI	2	12	12
L198	T198	SAT	2	13	13
L198	T197	SUN	2	14	14
L199	T199	MON	1	1	1
L199	T200	TUE	1	2	2
L199	T199	WED	1	3	3
L199	T200	THU	1	4	4
L199	T199	FRI	1	5	5
L199	T200	SAT	1	6	6
L199	T199	SUN	1	7	7
L199	T200	MON	2	8	8
L199	T199	TUE	2	9	9
L199	T200	WED	2	10	10
L199	T199	THU	2	11	11
L199	T200	FRI	2	12	12
L199	T199	SAT	2	13	13
L199	T200	SUN	2	14	14
L200	T200	MON	1	1	1
L200	T199	TUE	1	2	2
L200	T200	WED	1	3	3
L200	T199	THU	1	4	4
L200	T200	FRI	1	5	5
L200	T199	SAT	1	6	6
L200	T200	SUN	1	7	7
L200	T199	MON	2	8	8
L200	T200	TUE	2	9	9
L200	T199	WED	2	10	10
L200	T200	THU	2	11	11
L200	T199	FRI	2	12	12
L200	T200	SAT	2	13	13
L200	T199	SUN	2	14	14
L201	T201	MON	1	1	1
L201	T202	TUE	1	2	2
L201	T201	WED	1	3	3
L201	T202	THU	1	4	4
L201	T201	FRI	1	5	5
L201	T202	SAT	1	6	6
L201	T201	SUN	1	7	7
L201	T202	MON	2	8	8
L201	T201	TUE	2	9	9

L201	T202	WED	2	10	10
L201	T201	THU	2	11	11
L201	T202	FRI	2	12	12
L201	T201	SAT	2	13	13
L201	T202	SUN	2	14	14
L202	T202	MON	1	1	1
L202	T201	TUE	1	2	2
L202	T202	WED	1	3	3
L202	T201	THU	1	4	4
L202	T202	FRI	1	5	5
L202	T201	SAT	1	6	6
L202	T202	SUN	1	7	7
L202	T201	MON	2	8	8
L202	T202	TUE	2	9	9
L202	T201	WED	2	10	10
L202	T202	THU	2	11	11
L202	T201	FRI	2	12	12
L202	T202	SAT	2	13	13
L202	T201	SUN	2	14	14
L203	T203	MON	1	1	1
L203	T204	TUE	1	2	2
L203	T203	WED	1	3	3
L203	T204	THU	1	4	4
L203	T203	FRI	1	5	5
L203	T204	SAT	1	6	6
L203	T203	SUN	1	7	7
L203	T204	MON	2	8	8
L203	T203	TUE	2	9	9
L203	T204	WED	2	10	10
L203	T203	THU	2	11	11
L203	T204	FRI	2	12	12
L203	T203	SAT	2	13	13
L203	T204	SUN	2	14	14
L204	T204	MON	1	1	1
L204	T203	TUE	1	2	2
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
L204	T203	WED	2	10	10
L204	T204	THU	2	11	11
L204	T203	FRI	2	12	12
L204	T204	SAT	2	13	13
L204	T203	SUN	2	14	14
L205	T205	MON	1	1	1
L205	T206	TUE	1	2	2
L205	T205	WED	1	3	3
L205	T206	THU	1	4	4

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
L205	T205	SAT	2	13	13
L205	T206	SUN	2	14	14
L206	T206	MON	1	1	1
L206	T205	TUE	1	2	2
L206	T206	WED	1	3	3
L206	T205	THU	1	4	4
L206	T206	FRI	1	5	5
L206	T205	SAT	1	6	6
L206	T206	SUN	1	7	7
L206	T205	MON	2	8	8
L206	T206	TUE	2	9	9
L206	T205	WED	2	10	10
L206	T206	THU	2	11	11
L206	T205	FRI	2	12	12
L206	T206	SAT	2	13	13
L206	T205	SUN	2	14	14
L207	T207	MON	1	1	1
L207	T208	TUE	1	2	2
L207	T207	WED	1	3	3
L207	T208	THU	1	4	4
L207	T207	FRI	1	5	5
L207	T208	SAT	1	6	6
L207	T207	SUN	1	7	7
L207	T208	MON	2	8	8
L207	T207	TUE	2	9	9
L207	T208	WED	2	10	10
L207	T207	THU	2	11	11
L207	T208	FRI	2	12	12
L207	T207	SAT	2	13	13
L207	T208	SUN	2	14	14
L208	T208	MON	1	1	1
L208	T207	TUE	1	2	2
L208	T208	WED	1	3	3
L208	T207	THU	1	4	4
L208	T208	FRI	1	5	5
L208	T207	SAT	1	6	6
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
L209	T209	MON	1	1	1
L209	T210	TUE	1	2	2
L209	T209	WED	1	3	3
L209	T210	THU	1	4	4
L209	T209	FRI	1	5	5
L209	T210	SAT	1	6	6
L209	T209	SUN	1	7	7
L209	T210	MON	2	8	8
L209	T209	TUE	2	9	9
L209	T210	WED	2	10	10
L209	T209	THU	2	11	11
L209	T210	FRI	2	12	12
L209	T209	SAT	2	13	13
L209	T210	SUN	2	14	14
L210	T210	MON	1	1	1
L210	T209	TUE	1	2	2
L210	T210	WED	1	3	3
L210	T209	THU	1	4	4
L210	T210	FRI	1	5	5
L210	T209	SAT	1	6	6
L210	T210	SUN	1	7	7
L210	T209	MON	2	8	8
L210	T210	TUE	2	9	9
L210	T209	WED	2	10	10
L210	T210	THU	2	11	11
L210	T209	FRI	2	12	12
L210	T210	SAT	2	13	13
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
L211	T211	SUN	1	7	7
L211	T212	MON	2	8	8
L211	T211	TUE	2	9	9
L211	T212	WED	2	10	10
L211	T211	THU	2	11	11
L211	T212	FRI	2	12	12
L211	T211	SAT	2	13	13
L211	T212	SUN	2	14	14
L212	T212	MON	1	1	1
L212	T211	TUE	1	2	2
L212	T212	WED	1	3	3
L212	T211	THU	1	4	4
L212	T212	FRI	1	5	5
L212	T211	SAT	1	6	6
L212	T212	SUN	1	7	7
L212	T211	MON	2	8	8

L212	T212	TUE	2	9	9
L212	T211	WED	2	10	10
L212	T212	THU	2	11	11
L212	T211	FRI	2	12	12
L212	T212	SAT	2	13	13
L212	T211	SUN	2	14	14
L213	T213	MON	1	1	1
L213	T214	TUE	1	2	2
L213	T213	WED	1	3	3
L213	T214	THU	1	4	4
L213	T213	FRI	1	5	5
L213	T214	SAT	1	6	6
L213	T213	SUN	1	7	7
L213	T214	MON	2	8	8
L213	T213	TUE	2	9	9
L213	T214	WED	2	10	10
L213	T213	THU	2	11	11
L213	T214	FRI	2	12	12
L213	T213	SAT	2	13	13
L213	T214	SUN	2	14	14
L214	T214	MON	1	1	1
L214	T213	TUE	1	2	2
L214	T214	WED	1	3	3
L214	T213	THU	1	4	4
L214	T214	FRI	1	5	5
L214	T213	SAT	1	6	6
L214	T214	SUN	1	7	7
L214	T213	MON	2	8	8
L214	T214	TUE	2	9	9
L214	T213	WED	2	10	10
L214	T214	THU	2	11	11
L214	T213	FRI	2	12	12
L214	T214	SAT	2	13	13
L214	T213	SUN	2	14	14

Table: Fueling Costs

Yard	Fuel Price (\$/gallon)
Y1	\$3.00
Y2	\$3.24
Y3	\$3.22
Y4	\$3.48
Y5	\$3.38
Y6	\$3.04
Y7	\$3.24
Y8	\$2.98
Y9	\$3.24
Y10	\$3.24
Y11	\$3.02
Y12	\$3.24

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
Y38	\$3.02
Y39	\$3.12
Y40	\$3.12
Y41	\$3.08
Y42	\$2.90
Y43	\$3.28
Y44	\$3.02
Y45	\$3.16
Y46	\$3.08
Y47	\$3.12
Y48	\$3.12
Y49	\$3.08
Y50	\$3.08
Y51	\$2.96
Y52	\$2.96
Y53	\$2.96
Y54	\$2.96
Y55	\$3.52
Y56	\$3.56
Y57	\$3.52
Y58	\$3.52
Y59	\$3.12
Y60	\$2.90
Y61	\$2.90
Y62	\$3.12
Y63	\$3.52

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