

# JMRI Operations

Dennis Drury

# So what is JMRI?

JMRI stands for Java Model Railroad Interface. It includes:

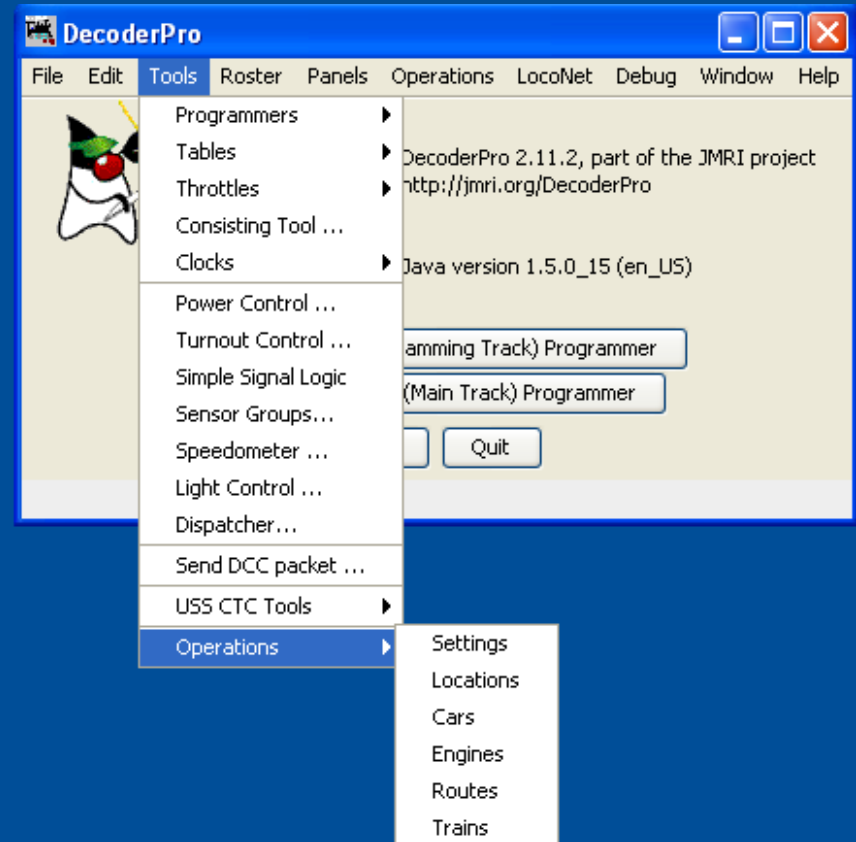
- DecoderPro®
- PanelPro™
- SoundPro
- And Operations

# So what is JMRI Operations?

- A. JMRI Operations is a car forwarding / management system
- B. The operations program will allow you to print out the paperwork that will enable your operating crew to run your layout in a more prototypical manner.
- C. If you have also created a panel for your railroad, the operations program will place icons on it to track the progress of your trains as they run across the railroad.

# Sounds great. How do we begin.

The operations program is found in all the JMRI startup applications. Click on Tools then Operations to get started.



# Paperwork examples

This is an example of a switchlist for the Klamath Falls switcher. What this list shows is the switcher pulling a cut of cars off the arrival track and sorting them into the correct outbound block. All the crew has to do is follow the list and check off the entries as the work is done.

## *California Oregon & Western RR*

Manifest for train (Klamath Falls Yard-2) Klamath Falls Yard Job 1st Trick  
Valid February 26, 1984 on duty 08:05 BN 2175

### Scheduled work in Klamath Falls

- Pickup BN 450657 HopGrain 50' Green Barley from Arrivals
- Pickup SP 674368 Box SPDDFI 51' Red MTY from Arrivals  
Single Plug Door Damage Free Insulated Boxcar
- Pickup UP 31216 Gon 50' Red L from Arrivals
- Pickup VCY 25055 Reefer 57' Blue MTY from Arrivals
- Pickup CALX 3010 Tank Asphalt 54' Black MTY (Hazardous) from Arrivals  
California Railcar 23,500 Gal. Tank Car
- Pickup PICK 1954 Boxcar SSD 50' Blue MTY from Arrivals Pickens Railroad
  
- Drop BN 450657 HopGrain 50' Green Barley to Alturas Block
- Drop SP 674368 Box SPDDFI 51' Red MTY to Alturas Block  
Single Plug Door Damage Free Insulated Boxcar
- Drop UP 31216 Gon 50' Red L to BN North Block
- Drop VCY 25055 Reefer 57' Blue MTY to K Falls Indus Block
- Drop CALX 3010 Tank Asphalt 54' Black MTY (Hazardous) to SP West Block  
California Railcar 23,500 Gal. Tank Car
- Drop PICK 1954 Boxcar SSD 50' Blue MTY to Stockton Block Pickens Railroad

## *California Oregon & Western RR*

Manifest for train (WCEUY) West Colton to Eugene Manifest

Valid June 21, 1984 14:50

- Pick up SP 9191 SD45T-2 from West Colton Diesel Shop
- Pick up SSW 9261 SD45T-2 from West Colton Diesel Shop
- Pick up SSW 9290 SD45T-2 from West Colton Diesel Shop

Scheduled work in West Colton, departure time 06:20

- Pick up SSW 88325 FlatBulkHead 60' Red MTY from WC Yard
- Pick up SSW 48235 Boxcar PSD 50' Red MTY from WC Yard
- Pick up SSW 67739 Boxcar DSD 51' Red MTY from Sunset Lumber Roller
- Pick up SP 242030 Boxcar DSD 50' Red MTY from Sunset Lumber Roller
- Pick up CALX 3042 Tank Asphalt 54' Black MTY (Hazardous) from WC Yard
- Pick up SP 242530 Boxcar DSD 51' Red MTY from WC Yard
- Pick up SP 509368 FlatBulkHead 60' Red MTY from WC Yard
- Pick up SP 699723 Box SPDDFI 51' Red MTY from WC Yard
- Pick up ACFX 91901 TankKaolin 40' White Kaolin\_Load from Engelhard Gordon
- Pick up SSW 47 Caboose 40' Red from Colton Cab Track

Train departs West Colton Eastbound with 10 cars, 772 feet, 949 tons

Scheduled work in Roseville, estimated arrival time 07:05

- Pick up MOBX 14240 Tank Asphalt 54' Black Asphalt Load (Hazardous)  
from Martinez Asphalt Loading
- Pick up BCOL 818519 FlatBulkHead 57' Green MTY from Overland Lumber Roller
- Pick up SP 621112 Box DPDDFA 60' Red MTY from GM Warm Springs
- Pick up SSW 67566 Boxcar DSD 50' Red MTY from Overland Lumber Roller
- Pick up SP 242423 Boxcar DSD 51' Red MTY from Overland Lumber Roller
- Pick up SP 228021 Box DPDHCP 50' Red MTY from Oakland Tribune Receiving
- Pick up SP 18971 Boxcar SSD 50' Yellow MTY from Pacific Aluminum

Train departs Roseville Eastbound with 17 cars, 1108 feet, 1192 tons

No work at Dunsmuir

Scheduled work in Klamath Falls, estimated arrival time 08:20

- Pick up SP 694579 Box DPDDFI 51' Red Laminates from Eugene Block  
Double Plug Door Damage Free Insulated Boxcar
- Set out MOBX 14240 Tank Asphalt 54' Black Asphalt Load (Hazardous) to Arrivals  
Mobil Oil 23,500 Gal. Tank Car
- Set out BCOL 818519 FlatBulkHead 57' Green MTY to Arrivals
- Set out SSW 48235 Boxcar PSD 50' Red MTY to Arrivals Plug Slide Door Boxcar

Train departs Klamath Falls Eastbound with 15 cars, 990 feet, 1127 tons

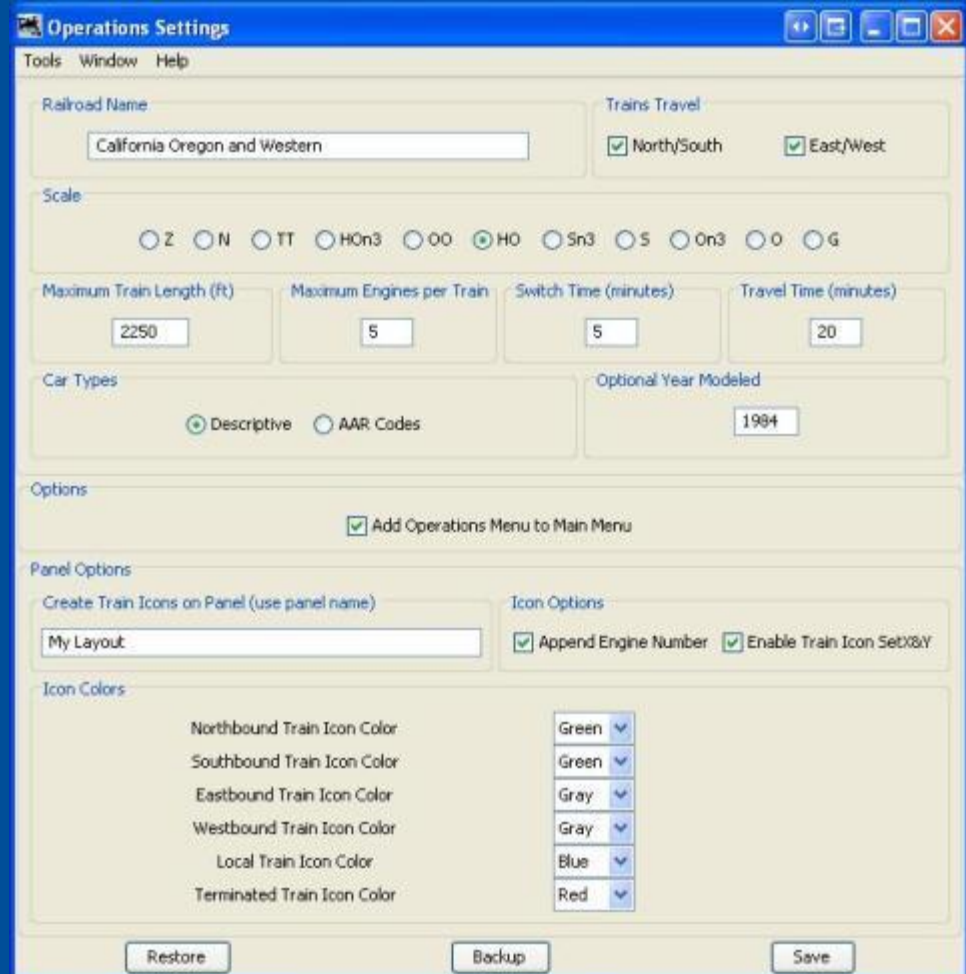
# What steps are necessary to set up Operations?

- Settings
- Locations
- Cars
- Locomotives
- Routes
- Trains
- Schedules (optional)

# Configuring Settings

Here we configure the global settings. We enter things like:

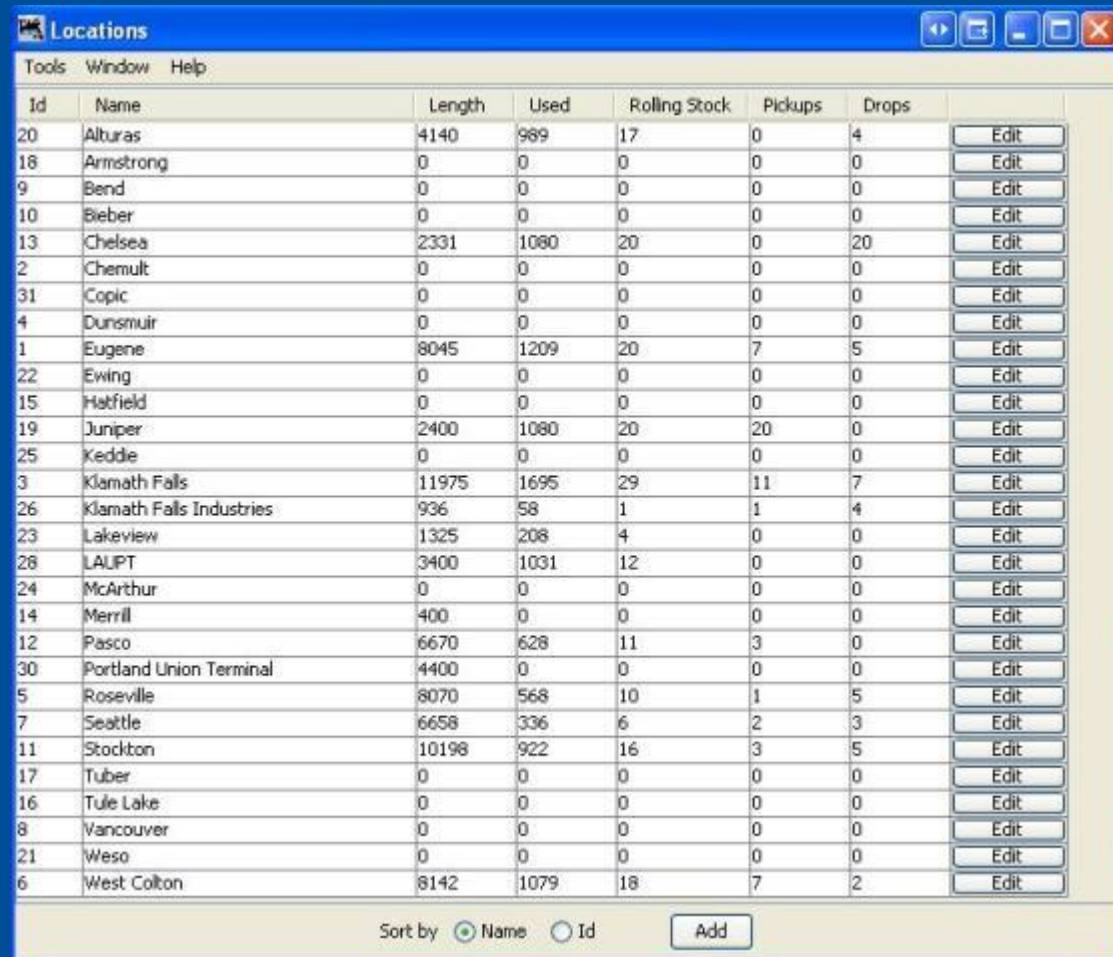
- Railroad Name
- Train direction
- Scale
- Global maximum values
- Car types
- Optional year modeled
- Add operations to main menu
- Panel options





# Adding Locations

Now we're ready to add some locations. Note that not all locations have to be on the layout. The next slide will cover these in more detail.



Id	Name	Length	Used	Rolling Stock	Pickups	Drops	Edit
20	Alturas	4140	989	17	0	4	Edit
18	Armstrong	0	0	0	0	0	Edit
9	Bend	0	0	0	0	0	Edit
10	Bieber	0	0	0	0	0	Edit
13	Chelsea	2331	1080	20	0	20	Edit
2	Chemult	0	0	0	0	0	Edit
31	Copic	0	0	0	0	0	Edit
4	Dunsmuir	0	0	0	0	0	Edit
1	Eugene	8045	1209	20	7	5	Edit
22	Ewing	0	0	0	0	0	Edit
15	Hatfield	0	0	0	0	0	Edit
19	Juniper	2400	1080	20	20	0	Edit
25	Keddie	0	0	0	0	0	Edit
3	Klamath Falls	11975	1695	29	11	7	Edit
26	Klamath Falls Industries	936	58	1	1	4	Edit
23	Lakeview	1325	208	4	0	0	Edit
28	LAUPT	3400	1031	12	0	0	Edit
24	McArthur	0	0	0	0	0	Edit
14	Merrill	400	0	0	0	0	Edit
12	Pasco	6670	628	11	3	0	Edit
30	Portland Union Terminal	4400	0	0	0	0	Edit
5	Roseville	8070	568	10	1	5	Edit
7	Seattle	6658	336	6	2	3	Edit
11	Stockton	10198	922	16	3	5	Edit
17	Tuber	0	0	0	0	0	Edit
16	Tule Lake	0	0	0	0	0	Edit
8	Vancouver	0	0	0	0	0	Edit
21	Weso	0	0	0	0	0	Edit
6	West Colton	8142	1079	18	7	2	Edit

# Adding tracks

This is the Edit Location screen. It's where we start adding tracks to our locations.

The screenshot shows the 'Edit Location' window for 'Klamath Falls Industries'. It includes a menu bar (Tools, Window, Help), a name field, and a section for train directions (North, South, East, West). Below that is a section for rolling stock with numerous checkboxes for different types of cars and equipment. There are also buttons for 'Clear all', 'Select all', and 'Auto Select'. The 'Operations at this location' section has radio buttons for 'Sidings', 'Yards', 'Interchange', and 'Staging only'. A table lists existing sidings with columns for ID, Siding Name, Length, Used, Reserved, Cars, Locos, Pick ups, and Set outs. At the bottom, there is a comment field and buttons for 'Delete Location', 'Add Location', and 'Save Location'.

**Operations at this location**

Sidings  Yards  Interchange  Staging only

Id	Siding Name	Length	Used	Reserved	Cars	Locos	Pick ups	Set outs	
26s4	Albina Asphalt Co.	180	0	116	0	0	0	2	Edit
26s3	COW Engine Service	90	0	0	0	0	0	0	Edit
26s1	F5-1	72	0	0	0	0	0	0	Edit
26s2	F5-2	72	0	0	0	0	0	0	Edit
26s5	Oregon Water Co.	80	0	0	0	0	0	0	Edit
26s7	RIP Track	362	0	64	0	0	0	1	Edit
26s6	Team Track-1	80	0	69	0	0	0	1	Edit

**Add Siding Track**

Comment: Industry Tracks located within Klamath Falls

**Delete Location** **Add Location** **Save Location**

# Yard Tracks

Before we enter any yard tracks we need to understand how the program treats them and how they're different from interchange tracks. Yard tracks are for storage and interchange tracks are for classification.

**Add Yard Track**

Tools Window Help

Name: Copic Yard One Length: 900

This yard is serviced by trains traveling

North  South  East  West

Select the rolling stock serviced by this yard

<input type="checkbox"/> Baggage	<input checked="" type="checkbox"/> Box DPDDFA	<input checked="" type="checkbox"/> Box DPDDFI	<input checked="" type="checkbox"/> Box DPDHCP	<input checked="" type="checkbox"/> Box SPDDFI	<input checked="" type="checkbox"/> Boxcar Beer
<input checked="" type="checkbox"/> Boxcar DD	<input checked="" type="checkbox"/> Boxcar DPD	<input checked="" type="checkbox"/> Boxcar DPDDF	<input checked="" type="checkbox"/> Boxcar DPDHC	<input checked="" type="checkbox"/> Boxcar DSD	<input checked="" type="checkbox"/> Boxcar PSD
<input checked="" type="checkbox"/> Boxcar SSD	<input checked="" type="checkbox"/> Boxcar SWPD	<input type="checkbox"/> Caboose	<input checked="" type="checkbox"/> Coal	<input checked="" type="checkbox"/> Coilcar	<input checked="" type="checkbox"/> Flat-F6B
<input checked="" type="checkbox"/> FlatBulkHead	<input checked="" type="checkbox"/> Flatcar	<input checked="" type="checkbox"/> FlatcarEquip	<input checked="" type="checkbox"/> Gon-scrap	<input checked="" type="checkbox"/> Gondola	<input checked="" type="checkbox"/> HopChem
<input checked="" type="checkbox"/> HopCmnt	<input checked="" type="checkbox"/> HopCoal	<input checked="" type="checkbox"/> HopGrain	<input checked="" type="checkbox"/> HopSand	<input checked="" type="checkbox"/> Hopper	<input type="checkbox"/> Log Car
<input type="checkbox"/> MOW	<input type="checkbox"/> Passenger	<input checked="" type="checkbox"/> Reefer	<input checked="" type="checkbox"/> Reefer-R5L	<input checked="" type="checkbox"/> Tank Asphalt	<input checked="" type="checkbox"/> Tank Chem
<input checked="" type="checkbox"/> Tank Food	<input checked="" type="checkbox"/> Tank Gas	<input checked="" type="checkbox"/> Tank Oil	<input checked="" type="checkbox"/> Tank Propane	<input checked="" type="checkbox"/> Tank-T0G	<input checked="" type="checkbox"/> Tank-T3D
<input checked="" type="checkbox"/> Tank-T3G	<input checked="" type="checkbox"/> Tank-T9P	<input checked="" type="checkbox"/> TankKaolin	<input checked="" type="checkbox"/> Woodchip	<input type="checkbox"/> Diesel	<input type="checkbox"/> Engine

Clear all Select all

Select the roads serviced by this track

Accept all  Accept only  Exclude

Select loads serviced by this track

Accept all  Accept only  Exclude

Select pick up car order

Normal  First In First Out (FIFO)  Last In First Out (LIFO)

Comment

Delete Yard Track Add Yard Track Save Yard Track

# Interchange Tracks

## Interchange tracks

- Used by the program to move cars from one railroad to another
- Also used to move cars from one train to another
- And interchange tracks are how you set up classification yards.

# Sidings

Sidings are the industry tracks where freight cars are loaded and unloaded during the course of our operating sessions.

**Add Siding Track**

Tools Window Help

Name: Parr Lumber Company Length: 110

This siding is serviced by trains traveling

East  West

Select the rolling stock serviced by this siding

<input type="checkbox"/> Box DPDDFA	<input type="checkbox"/> Box DPDDFI	<input type="checkbox"/> Box DPDHCP	<input type="checkbox"/> Box SPDDFI	<input type="checkbox"/> Boxcar Beer	<input checked="" type="checkbox"/> Boxcar DD
<input checked="" type="checkbox"/> Boxcar DPD	<input checked="" type="checkbox"/> Boxcar DPDDF	<input type="checkbox"/> Boxcar DPDHC	<input checked="" type="checkbox"/> Boxcar DSD	<input checked="" type="checkbox"/> Boxcar PSD	<input checked="" type="checkbox"/> Boxcar SSD
<input type="checkbox"/> Boxcar SWPD	<input type="checkbox"/> Coal	<input type="checkbox"/> Coilcar	<input checked="" type="checkbox"/> FlatBulkHead	<input checked="" type="checkbox"/> Flatcar	<input type="checkbox"/> FlatcarEquip
<input type="checkbox"/> Gon-scrap	<input type="checkbox"/> Gondola	<input type="checkbox"/> HopChem	<input type="checkbox"/> HopCmnt	<input type="checkbox"/> HopCoal	<input type="checkbox"/> HopGrain
<input type="checkbox"/> HopSand	<input type="checkbox"/> Hopper	<input type="checkbox"/> Log Car	<input type="checkbox"/> MOW	<input type="checkbox"/> Reefer	<input type="checkbox"/> Reefer-R5L
<input type="checkbox"/> Tank Asphalt	<input type="checkbox"/> Tank Chem	<input type="checkbox"/> Tank Food	<input type="checkbox"/> Tank Gas	<input type="checkbox"/> Tank Oil	<input type="checkbox"/> Tank Propane
<input type="checkbox"/> Tank-T0G	<input type="checkbox"/> Tank-T3D	<input type="checkbox"/> Tank-T3G	<input type="checkbox"/> Tank-T9P	<input type="checkbox"/> TankKaolin	<input type="checkbox"/> Woodchip

Clear all Select all

Select the roads serviced by this track

Accept all  Accept only  Exclude

Select loads serviced by this track

Accept all  Accept only  Exclude

Boxcar DSD Lumber Load Add Load Delete Load Delete All

Optional Schedule

[Dropdown] Edit

Comment

[Text Area]

Delete Siding Track Add Siding Track Save Siding Track

# Staging Tracks

Here is the Add Staging Track screen. As you can see, you have a lot of options to configure the program to manage your car movements.

**Add Staging Track**

Tools Window Help Window Help

Name: Bieber Track One Length: 1350

This staging track is serviced by trains traveling

North  South

Select the rolling stock serviced by this staging track

Clear all Select all

Select the roads serviced by this track

Accept all  Accept only  Exclude

Select loads serviced by this track

Accept all  Accept only  Exclude

Select trains or routes for arrivals

Any  Trains  Routes

Select trains or routes for departures

Any  Trains  Routes

Optional car load controls

Swap default loads and empties

Empty cars with default loads

Optional custom car load controls

Empty cars with custom loads

Generate custom loads for sidings serviced by this train

Generate custom loads for any siding (multiple trains)

Comment

Delete Staging Track Add Staging Track Save Staging Track

# Adding Cars

This is the Edit Car window.  
Here you can input the:

- Road (reporting marks)
- Road number
- Car type and category
- Length
- Weight
- Location
- Color
- Load
- Kernel
- Year built
- Car owner

The screenshot shows the 'Edit Car' window with the following fields and controls:

- Road:** Dropdown menu set to 'UTLX', with an 'Edit' button.
- Road Number:** Text input field containing '910305', with a 'Clear' button.
- Type:** Dropdown menu set to 'Tank-T9P', with an 'Edit' button. Below it are checkboxes for 'Passenger' (unchecked), 'Caboose' (unchecked), 'Hazardous' (checked), and 'FRED' (unchecked).
- Length:** Dropdown menu set to '63', with an 'Edit' button.
- Weight:** Two text input fields: 'Ounces' (5.3) and 'Tons' (106). A 'Calculate' button is between them. A checked 'Auto' checkbox is on the right.
- Location and Track:** Two dropdown menus, one empty and one with a downward arrow. A checked 'Auto' checkbox is on the right.
- Optional Color:** Dropdown menu set to 'Black', with an 'Edit' button.
- Load:** Dropdown menu set to 'MTY', with an 'Edit' button.
- Kernel:** Dropdown menu (empty), with an 'Edit' button.
- Built:** Text input field containing '04-82'.
- Owner:** Dropdown menu set to 'DMD', with an 'Edit' button.
- Comment:** Text input field containing 'LPG Tank Car'.

At the bottom of the window are three buttons: 'Delete', 'Add', and 'Save'.

# AAR vs. Descriptive Codes

One of the choices you were given in the Settings screen is whether to use AAR or Descriptive car types. Regardless of which type you choose you can add a modifier that will allow you to fine tune how the program assigns cars to various industry sidings. We'll talk about that in the next slide.



# Using the “-” function

The dash is an important component in Operations. When you enter or modify a car type, inserting a “-” (dash) followed by more text after the car, name the program will use all the text in the name to assign a particular car to an industry, but will only print out the text before the dash in the switchlists and manifests. Examples might be XM-1, XM-2 or XM-3; or Boxcar-1, Boxcar-2 or Boxcar-3.

# UMLER codes

UMLER codes are a way to let the program know the difference between cars of the same general type. For example, Boxcar-BEN is a Standard boxcar (B) that is between 50 and 60 feet long with a cushioned under frame (E) and is a double door car. Boxcar-D5C is a DF (Damage Free) boxcar that is between 49 and 58 feet long and has a cushioned under frame.

UMLER Car Codes		NOTE: UMLER stand for Universal Machine Language Equipment Register									
Type of car	Sub-Type	First Digit	Second Digit			Third Digit					Double Door
			Inside Length	Standard	Cushioned	Capacity	Single Door Width				
							6 feet	8 feet	9 feet	10 feet +	
Boxcar	Standard	B	< 50 feet	4	D	< 70 Tons	A	D	G	J	M
			50 blt 60 ft	5	E	70 blt 90 T	B	E	H	K	N
			60 blt 70 ft	6	F	> 90 Tons	C	F	I	L	O
			> 70 ft	7	G						
Boxcar	DF	D	Inside Length								
			< 49 feet	4		Cushioned	C				
			49 blt 58 ft	5							
			58 blt 70 ft	6		Not Cushion	U				
			> 70 ft	7							
			All Door	A							
			Roof Hatch	H							
Boxcar	DF Insulated	I (eye)	Inside Length								
			< 49 feet	4		Cushioned	C				
			49 blt 58 ft	5							
			58 blt 70 ft	6		Not Cushion	U				
			> 70 ft	7							
Boxcar	Load Divider	L	Inside Length								
			< 52 feet	4		Side Filler	S				
			52 blt 58 ft	5		Air Pack	A				
			58 blt 70 ft	6		Other	O				
			> 70 ft	7							

# Adding Locomotives

This is the Add Locomotive screen. You can import the roster information from DecoderPro if you're already using JMRI or you can enter it manually. You can enter:

- Road
- Number
- Model
- Type
- Length
- Location and track
- Weight
- Horsepower
- If the unit is part of a consist
- Year built
- Owner

Note that many of these fields can be edited.

The screenshot shows the 'Edit Locomotive' window with the following fields and controls:

- Road:** A dropdown menu set to 'COW' and an 'Edit' button.
- Road Number:** A text input field containing '2001' and a 'Clear' button.
- Model:** A dropdown menu set to 'GP38' and an 'Edit' button.
- Type:** A dropdown menu set to 'Diesel' and an 'Edit' button.
- Length:** A dropdown menu set to '59' and an 'Edit' button.
- Location and Track:** Two dropdown menus, the first set to 'Klamath Falls' and the second set to 'Klamath Engine Lead'.
- Optional:**
  - Weight Tons:** A text input field containing '125'.
  - Horsepower:** A text input field containing '2000'.
- Consist:** A dropdown menu set to '2003' and an 'Edit' button.
- Built:** A text input field.
- Owner:** A dropdown menu set to 'DMD' and an 'Edit' button.
- Comment:** A text input field.

At the bottom of the window are three buttons: 'Delete', 'Add', and 'Save'.

# Routes

The screenshot shows the 'Edit Route' window with the following details:

- Name:** Stockton -> Pasco
- Comment:** (empty)
- Table:**

Id	Location	Train Direction	Moves	Pick ups?	Set outs?	Wait	Max Length	Grade	X	Y	Comment				
3r1	Stockton	North	18	yes	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r2	Keddie	North	0	no	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r3	Bieber	North	0	no	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r4	Armstrong	North	0	no	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r5	Tuber	North	0	no	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r6	Tule Lake	North	0	no	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r7	Hatfield	North	0	no	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r8	Merrill	North	0	no	no	0	1300	0.0	0	0		Add	Up	Down	Dele...
3r9	Klamath Falls	North	10	yes	yes	0	1500	0.0	0	0		Add	Up	Down	Dele...
3r10	Chemult	North	0	no	no	0	1500	0.0	0	0		Add	Up	Down	Dele...
3r11	Bend	North	0	no	no	0	1500	0.0	0	0		Add	Up	Down	Dele...
3r12	Pasco	North	18	no	yes	0	1500	0.0	0	0		Add	Up	Down	Dele...

**Location:** (empty dropdown) **Add Location**  Add location at start  Add location at end

**Display:**  Wait  Departure Time

**Buttons:** Delete Route, Add Route, Save Route

This is the Edit Route screen for my Stockton to Pasco route. As you can see it runs northbound from Stockton to Pasco and is the route used by BN train 170.

# Trains

This is the add / edit train window. You'll enter in the:

- Name
- Description
- Departure time
- Route
- Car types
- Locomotive type
- Optional info
- Comments

**Edit Train**  
Tools Window Help

Name:  Description:

Departure Time (hh:mm):   Route:

This train services the following locations

- Stockton
- Keddie
- Bieber
- Armstrong
- Tuber
- Tule Lake
- Hatfield
- Merrill
- Klamath Falls
- Chemult
- Bend
- Pasco

Select car types serviced by this train

- Baggage
- Box DPDDFA
- Box DPDDFI
- Box DPDHCP
- Box SPDDFI
- Boxcar Beer
- Boxcar DD
- Boxcar DPD
- Boxcar DPDDF
- Boxcar DPDHC
- Boxcar DSD
- Boxcar PSD
- Boxcar SSD
- Boxcar SWPD
- Caboose
- Coal
- Coilcar
- Flat-F6B
- FlatBulkHead
- Flatcar
- FlatcarEquip
- Gon-scrap
- Gondola
- HopChem
- HopCmnt
- HopCoal
- HopGrain
- HopSand
- Hopper
- Log Car
- MOW
- Passenger
- Reefer
- Reefer-R5L
- Tank Asphalt
- Tank Chem
- Tank Food
- Tank Gas
- Tank Oil
- Tank Propane
- Tank-T0G
- Tank-T3D
- Tank-T3G
- Tank-T9P
- TankKaolin
- Woodchip

Select locomotive types serviced by this train

- Diesel
- Engine

Optional train requirements

Locomotives:   None

Model:   FRED  Caboose

Road:   Road

Comment:

# Schedules

**Edit Schedule for Siding Sotol Tequila Chihuahua**

Tools Window Help

Name: Sotol Tequila Shipping

Comment: Shipping schedule for the CHP boxcar shipping tequila

Mode:  Sequential  Match

Id	Current	Type	Road	Receive	Ship	Destination	Track	Count	Wait								
17c1		Boxcar SSD	CHP	▼	MTY	▼	Tequila Load	▼	Fuene	▼	Oregon Liquor Commission-1	▼	1	0	Up	Down	Dele...
17c2		Boxcar SSD	CHP	▼	MTY	▼	Tequila Load	▼	Seattle	▼	Northwest Beverages-1	▼	1	0	Up	Down	Dele...
17c3	-->	Boxcar SSD	CHP	▼	MTY	▼	Tequila Load	▼	Alturas	▼	Modoc-I assen Beverage	▼	1	0	Up	Down	Dele...
17c4		Boxcar SSD	CHP	▼	MTY	▼	Tequila Load	▼	Pasco	▼	Hill & Mundell Beverages	▼	1	0	Up	Down	Dele...

Add New Delivery

Boxcar SSD ▼

Add car type

Add at start  Add at end

Delete Schedule Add Schedule Save Schedule

This is the Edit Schedule window. Here you can enter such data as:

- Name and comments
- Sequential or Match loads
- Type and road of car
- Receive and Ship
- Destination and track
- Count and Wait

# Build Reports

```
train (Report BN 138).txt - Notepad
File Edit Format View Help
Build Report for train (BN 138) built on 6/22/11 10:04 AM
JMRI version 2.11.4
  Location (Stockton) requests 18 moves
  Location (Keddie) does not allow set outs or pick ups
  Location (Bieber) has only staging tracks
  Location (Armstrong) does not allow set outs or pick ups
  Location (Tuber) does not allow set outs or pick ups
  Location (Tule Lake) does not allow set outs or pick ups
  Location (Hatfield) does not allow set outs or pick ups
  Location (Merrill) does not allow set outs or pick ups
  Location (Klamath Falls) requests 10 moves
  Location (Chemult) does not allow set outs or pick ups
  Location (Pasco) requests 18 moves
  Location (Seattle) requests 18 moves
Route (Stockton -> Seattle) requests 32 cars and 64 moves
Train (BN 138) services locomotive types:
  Diesel, Engine
Train requires 2 consisted locomotives, model () road ()
Search for 2 locos, model (), road (), departing (Stockton), destination (Seattle)
  Loco (BN 3058) is part of consist (3053) and has 2 locomotives
  Loco (BN 3053) is lead loco for consist (3053) and has 2 locomotives
  Loco (BN 3053) road (BN) model (GP40-2) type (Diesel)
  at location (Stockton, Stockton Engine House) destination (Seattle)
  Can't set out loco (BN 3053) to track (Olympia Barley) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Sound Beverage) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Northwest Beverages-2) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Northwest Beverages-1) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Western Feed Co.) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Bens Truck Supply) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Bellingham Cold Storage) due to type (Diesel)
  Can't set out loco (BN 3053) to track (UW Seattle Coal Rcv) due to type (Diesel)
  Can't set out loco (BN 3053) to track (LPN Lumber) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Pacific Forest Products) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Weldwood Canada) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Seattle Caboose) due to type (Diesel)
  Can't set out loco (BN 3053) to track (Seattle Yard) due to type (Diesel)
  Loco (BN 3053) assigned destination (Seattle, Seattle Roundhouse)
  Loco (BN 3058) assigned destination (Seattle, Seattle Roundhouse)
Done assigning locomotives to train (BN 138)
Train (BN 138) services car types:
Box DPDDFA, Box DPDDFI, Box DPDHCP, Box SPDDFI, Boxcar Beer, Boxcar DD, Boxcar DPD,
Boxcar DPDDF, Boxcar DPDHC, Boxcar DSD, Boxcar PSD, Boxcar SSD, Boxcar SWPD, Caboose,
Coal, Coilcar, FlatbulkHead, Flatcar, FlatcarEquip, Gon-scrap, Gondola, Hopchem,
HopCmnt, HopCoal, HopGrain, HopSand, Hopper, MOW, Passenger, Reefer, Tank Asphalt,
Tank Food, Tank Gas, Tank Oil, Tank Propane, Tankkaolin, woodchip
Remove cars not serviced by this train
Exclude car (SP 696425) by train, no pick up at interchange (Klamath Falls, Alturas Block)
Exclude car (USLX 3015) by train, no pick up at interchange (Klamath Falls, Alturas Block)
Exclude car (MTTX 98051) by train, no pick up at interchange (Klamath Falls, Chelsea Block)
Exclude car (MP 819780) by train, no pick up at interchange (Klamath Falls, Arrivals)
Exclude car (NP 75775) by train, no pick up at interchange (Klamath Falls, Stockton Block)
Exclude car (TTX 470829) by train, no pick up at interchange (Klamath Falls, Alturas Block)
Exclude car (SP 401290) by train, no pick up at interchange (Klamath Falls, Eugene Block)
Exclude car (MOBX 14240) by train, no pick up at interchange (Klamath Falls, K Falls Indus Block)
```

# Trains Window

Tools Window Help

Time	Build	Name	Description	Route	Departs	Terminates	Current	Status	Action	
00:05	<input type="checkbox"/>	<b>Build</b>	Klamath Falls Yard-1	Klamath Falls yard engine 1 st...	Klamath Falls Yard	Klamath Falls	Klamath Falls	Train reset	<b>Move</b> <b>Edit</b>	
02:00	<input type="checkbox"/>	<b>Prev...</b>	Klamath Falls Indus 2002	Klamath Falls Industry Job	Klamath Falls Industry	Klamath Falls	Klamath Falls	Partial 5/11 cars	<b>Move</b> <b>Edit</b>	
03:00	<input type="checkbox"/>	<b>Prev...</b>	BN 170 3040	Stockton to Pasco	Stockton -> Pasco	Stockton	Pasco	Stockton	Partial 10/23 cars	<b>Move</b> <b>Edit</b>
04:00	<input type="checkbox"/>	<b>Prev...</b>	BN 171 2100	Pasco to Stockton	Pasco -> Stockton	Pasco	Stockton	Pasco	Partial 9/23 cars	<b>Move</b> <b>Edit</b>
06:20	<input type="checkbox"/>	<b>Prev...</b>	WCEUY 8277	West Colton to Eugene Manif...	West Colton -> Euge...	West Colton	Eugene	West Colton	Partial 12/43 cars	<b>Move</b> <b>Edit</b>
07:00	<input type="checkbox"/>	<b>Prev...</b>	Alturas Switcher-1 2007	Alturas local engine first trick	Alturas Switcher	Alturas	Alturas	Alturas	Partial 2/16 cars	<b>Move</b> <b>Edit</b>
07:45	<input type="checkbox"/>	<b>Build</b>	Amtrak Train 14	Northbound Coast Starlight	Amtrak Train 14	LAUPT	Portland Union Ter...	Terminated	<b>Move</b> <b>Edit</b>	
08:05	<input type="checkbox"/>	<b>Build</b>	Klamath Falls Yard-2	Klamath Falls Yard Engine 2n...	Klamath Falls Yard	Klamath Falls	Klamath Falls	Terminated	<b>Move</b> <b>Edit</b>	
09:05	<input type="checkbox"/>	<b>Prev...</b>	Alturas Turn 2004	Klamath Falls to Alturas and r...	Alturas Turn	Klamath Falls	Klamath Falls	Klamath Falls	Partial 2/21 cars	<b>Move</b> <b>Edit</b>
11:20	<input type="checkbox"/>	<b>Prev...</b>	EUWCY 9290	Eugene to West Colton Manif...	Eugene -> West Colt...	Eugene	West Colton	Eugene	Partial 15/43 cars	<b>Move</b> <b>Edit</b>
16:00	<input type="checkbox"/>	<b>Prev...</b>	Lake District 1	Lakeview to Alturas Turn	Lake District RR	Lakeview	Lakeview	Lakeview	Partial 2/13 cars	<b>Move</b> <b>Edit</b>
17:30	<input type="checkbox"/>	<b>Prev...</b>	BN 137 2175	Seattle to Stockton Manifest	Seattle -> Stockton	Seattle	Stockton	Seattle	Partial 2/32 cars	<b>Move</b> <b>Edit</b>
18:20	<input type="checkbox"/>	<b>Prev...</b>	RVEUY 9224	Roseville to Eugene Manifest	Roseville -> Eugene	Roseville	Eugene	Roseville	Partial 1/30 cars	<b>Move</b> <b>Edit</b>
19:00	<input type="checkbox"/>	<b>Build</b>	Klamath Falls Yard-3	Klamath Falls Yard Engine 3r...	Klamath Falls Yard	Klamath Falls	Klamath Falls	Terminated	<b>Move</b> <b>Edit</b>	
20:00	<input type="checkbox"/>	<b>Build</b>	COW Log Train	Log Train	Log Train	Klamath Falls	Klamath Falls	Build Failed	<b>Report</b> <b>Edit</b>	
20:10	<input type="checkbox"/>	<b>Prev...</b>	BN 138 3053	Stockton to Seattle Manifest	Stockton -> Seattle	Stockton	Seattle	Stockton	Partial 4/32 cars	<b>Move</b> <b>Edit</b>
20:30	<input type="checkbox"/>	<b>Build</b>	Copic Local	Klamath Falls to Copic and re...	Copic Local	Klamath Falls	Klamath Falls	Terminated	<b>Move</b> <b>Edit</b>	
21:00	<input type="checkbox"/>	<b>Prev...</b>	Chelsea Turn 2010	K. Falls to Chelsea and return	Chelsea Turn	Klamath Falls	Klamath Falls	Klamath Falls	Partial 2/21 cars	<b>Move</b> <b>Edit</b>
21:05	<input type="checkbox"/>	<b>Build</b>	Amtrak Train 11	Southbound Coast Starlight	Amtrak Train 11	Portland Union Ter...	LAUPT	Terminated	<b>Move</b> <b>Edit</b>	
23:00	<input type="checkbox"/>	<b>Preview</b>	EURVY 8966	Eugene to Roseville Manifest	Eugene -> Roseville	Eugene	Roseville	Eugene	Partial 2/30 cars	<b>Move</b> <b>Edit</b>

Sort by:  Time  Name  Route  Departs  Terminates  Status  Id

Options:  Show All  Messages  Build Reports  Preview Manifests

Action:  Move  Terminate  Reset



# Car Report

Tools Window Help												
Number	Road	Type	Len	Color	Kernel	Location	Destination	Train	Moves	Set	Edit	
61050	LPN	FlatBulkHead	60	Orange		Klamath Falls (Chelsea Block)	->Chelsea (Chelsea Track 1 Spot 6)		43	Set	Edit	
14240	MOBX	Tank Asphalt (H)	54	Black		Klamath Falls (K Falls Indus Block)	Klamath Falls Industries (Albina Asphalt Co.)	Klamath Falls Indus	40	Set	Edit	
782283	MP	Boxcar Beer	65	Brown		Alturas (Alturas -> Lakeview)	->Seattle (Sound Beverage)		124	Set	Edit	
819780	MP	Flatcar	60	Red		Klamath Falls (Arrivals)	Klamath Falls Industries (RIP Track)->Stockton (Stockton Yard)		8	Set	Edit	
2243	MR	Boxcar DSD	50	White		Pasco (Pasco Yard)	Stockton (Stockton Yard)	BN 171	65	Set	Edit	
98051	MTTX	Flatcar	60	Yellow		Klamath Falls (Chelsea Block)	->Chelsea (Chelsea Track 2 Spot 7)		8	Set	Edit	
75775	NP	HopCmnt	36	Gray		Klamath Falls (Stockton Block)	Stockton (Stockton Yard)	BN 171	18	Set	Edit	
90075	OTTX	Flat-F6B	60	Brown					0	Set	Edit	
902	OTTX	Flat-F6B	60	Yellow					0	Set	Edit	
452902	PFE	Reefer-R5L	57	Orange					0	Set	Edit	
453318	PFE	Reefer-R5L	57	Orange					0	Set	Edit	
1954	PICK	Boxcar SSD	50	Blue		Stockton (Stockton Yard)	Klamath Falls (Arrivals)	BN 170	19	Set	Edit	
43585	PROX	Tank Propane (H)	54	Black		Alturas (Alturas -> Lakeview)	->Pasco (Canada Gas Supply)		417	Set	Edit	
836	RDMX	Reefer	57	Orange		Pasco (Pasco Yard)	Stockton (Stockton Yard)	BN 171	381	Set	Edit	
1400	SP	Caboose (C)	40	Red		Eugene (Eugene Cab Track)	Roseville (Roseville Cab Track)	EURVY	469	Set	Edit	
1544	SP	Caboose (C)	40	Red		Roseville (Roseville Cab Track)	Eugene (Eugene Cab Track)	RVEUY	470	Set	Edit	
18971	SP	Boxcar SSD	50	Yellow		Eugene (Reynolds Aluminum)	Roseville (Pacific Aluminum)->Eugene (Reynolds Aluminum)	EUWCY	97	Set	Edit	
215803	SP	Boxcar PSD	51	Red		Alturas (Alturas -> Klamath Falls)	->West Colton (Biagi Brothers-2)		54	Set	Edit	
228021	SP	Box DPDHCP	50	Red		Eugene (Int Paper Shipping)	Roseville (Oakland Tribune Receiving)	EUWCY	216	Set	Edit	
242030	SP	Boxcar DSD	50	Red		Eugene (Eugene Car Storage)	West Colton (WC Yard)	EUWCY	92	Set	Edit	
242423	SP	Boxcar DSD	51	Red		Eugene (Eugene Car Storage)	Roseville (Roseville Yard)	EUWCY	86	Set	Edit	
242506	SP	Boxcar DSD	51	Red		West Colton (Sunset Lumber Roller-1)	Klamath Falls (Arrivals)	WCEUY	78	Set	Edit	
242530	SP	Boxcar DSD	51	Red		Eugene (Eugene Car Storage)	West Colton (WC Yard)	EUWCY	77	Set	Edit	
365019	SP	Gondola	65	Red		Klamath Falls (K Falls Indus Block)	Klamath Falls (Arrivals)->Roseville (Pioneer Pipe)	Klamath Falls Indus	117	Set	Edit	
365022	SP	Gondola	65	Red		Klamath Falls (K Falls Indus Block)	Klamath Falls Industries (Team Track-1)->Eugene (NW Tube Shipping)	Klamath Falls Indus	131	Set	Edit	
401290	SP	HopSand	36	Gray		Klamath Falls (Eugene Block)	Eugene (Eugene Car Storage)	WCEUY	26	Set	Edit	
496543	SP	HopGrain	54	Gray		Alturas (Alturas -> Klamath Falls)	->Eugene (Steiner Hops)		202	Set	Edit	
509368	SP	FlatBulkHead	60	Red		Eugene (Eugene Car Storage)	West Colton (WC Yard)	EUWCY	67	Set	Edit	
509445	SP	FlatBulkHead	60	Red		Klamath Falls (Chelsea Block)			48	Set	Edit	
599346	SP	Flat-F6B	60	Brown					0	Set	Edit	
599378	SP	Flat-F6B	60	Brown					0	Set	Edit	
599392	SP	Flat-F6B	60	Brown					0	Set	Edit	
621112	SP	Box DPDDFA	60	Red		Eugene (Delco Portland)	Roseville (GM Warm Springs)->Eugene (Delco Portland)	EUWCY	28	Set	Edit	
674368	SP	Box SPDDFI	51	Red		Lakeview (Arco Energy Spot 2)	Alturas (Arrivals)	Lake District	62	Set	Edit	
674452	SP	Box SPDDFI	51	Red		West Colton (WC Yard)	Eugene (Eugene Car Storage)	WCEUY	88	Set	Edit	
691407	SP	Boxcar Beer	65	Brown		Klamath Falls (Alturas Block)	Alturas (Osoturia Shipping Spot WC)->West Colton (Biagi Brothers-1)		130	Set	Edit	
694579	SP	Box DPDDFI	51	Red		Eugene (Eugene Car Storage)	Klamath Falls (Arrivals)	EUWCY	4	Set	Edit	
696425	SP	Boxcar DPDDF	51	Red		Klamath Falls (Alturas Block)			2	Set	Edit	
699642	SP	Box SPDDFI	51	Red		West Colton (WC Yard)	Eugene (Eugene Car Storage)	WCEUY	178	Set	Edit	

Sort by  Number  Road  Type  Color  Load  Kernel  Location  Destination  FD  RWE  Train  Moves  Built  Owner

# Questions

If you have any questions please feel free to contact me directly at [cowrr1984@gmail.com](mailto:cowrr1984@gmail.com)

In addition you can join the JMRI Users Yahoo group at:

<http://groups.yahoo.com/group/jmriusers/>

Or come see me after the clinic.

Thanks, Dennis Drury