

# Finding Prototype Information

Scale Rails of Southwest Florida, Inc/

March 10, 2012

# Outline

- **Why do we want prototype information?**
- **What kind of information do we want?**
- **Where do we get this information?**
- **Must I use a computer?**

# Do We Need Prototype Info?

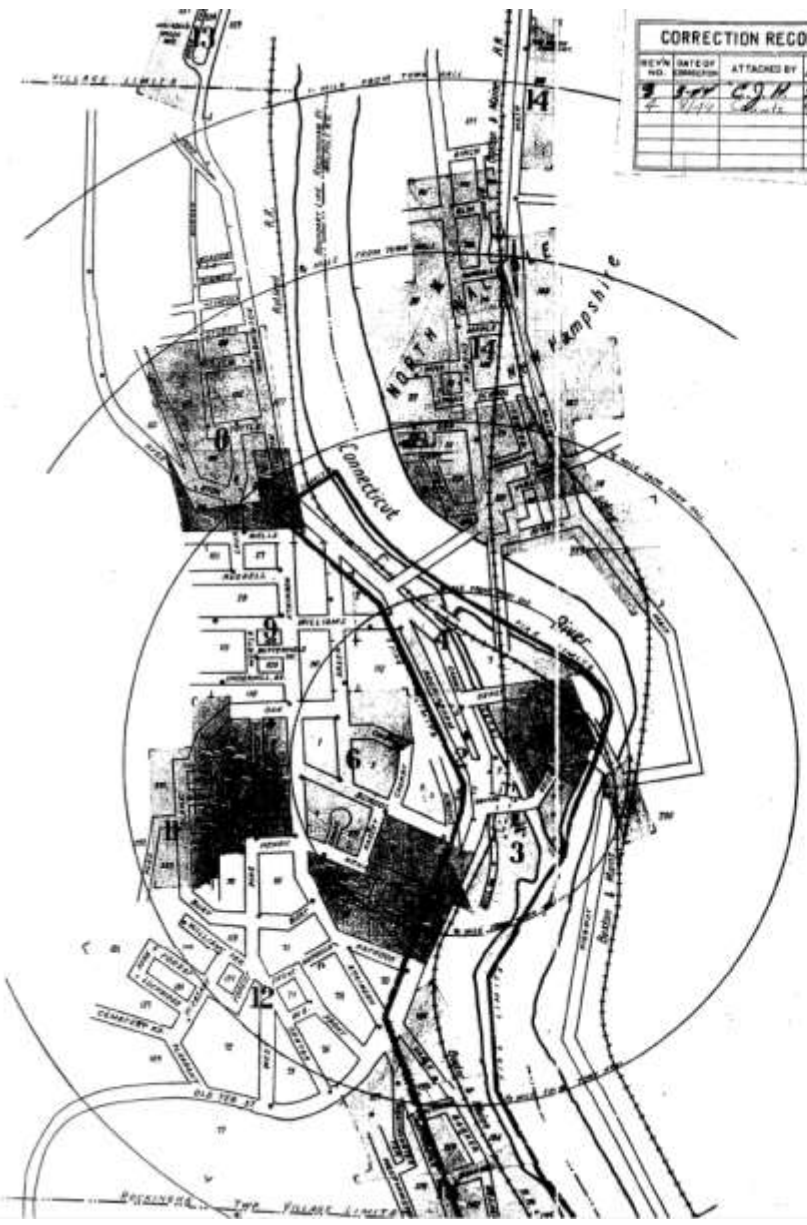
- **NO, if your layout:**
  - Models 1940's to 2010
  - Includes ATSF, Conrail, Amtrak, L&N and B&M locomotives, among others
  - Plan green felt on a 4x8 plywood base as your scenery
  - Spaghetti bowl track work plan

# Do We Need to do Research?

- **YES, if you want your RR to tell a story:**
  - Set in late summer, 1954
  - In New England
  - B&M, CN, CP and Rutland RR's
  - Be realistic and believable
  - Operations representative of traffic then
  - Industries consistent with what existed then

# What are we looking for?

- **For a Specific Railroad:**
  - Track Charts/maps
  - Yard layouts/maps
  - Timetables
  - Rules books
  - Consists for certain times/places
  - Drawings/specs, photos for locos, rolling stock, buildings, signals, phone cabinets, relay cabinets, signage, etc.
  - Any peculiarities that can be modeled



CORRECTION RECORD			
REV. NO.	DATE OF CHANGE	ATTACHED BY	DATE ATTACHED
3	1/1/44	C. J. H. S. P.	1/1/44
4	1/1/44	S. Smith	1/1/44



KEY	
	STREET
	RAILROAD
	WATER
	BUILDING
	LOT
	BOUNDARY
	RAILROAD CROSSING
	BRIDGE
	TUNNEL
	DAM
	POWER LINE
	TELEPHONE LINE
	GAS LINE
	SEWER LINE
	WATER MAIN
	FIRE HYDRANT
	FIRE ALARM BOX
	FIRE STATION
	FIRE ENGINE HOUSE
	FIRE TRUCK HOUSE
	FIRE HOSE REEL HOUSE
	FIRE ALARM BELL HOUSE
	FIRE ALARM BELL TOWER
	FIRE ALARM BELL TOWER WITH CLOCK
	FIRE ALARM BELL TOWER WITH CLOCK AND BELL
	FIRE ALARM BELL TOWER WITH CLOCK AND BELL AND FIRE ALARM BOX
	FIRE ALARM BELL TOWER WITH CLOCK AND BELL AND FIRE ALARM BOX AND FIRE ENGINE HOUSE
	FIRE ALARM BELL TOWER WITH CLOCK AND BELL AND FIRE ALARM BOX AND FIRE ENGINE HOUSE AND FIRE TRUCK HOUSE
	FIRE ALARM BELL TOWER WITH CLOCK AND BELL AND FIRE ALARM BOX AND FIRE ENGINE HOUSE AND FIRE TRUCK HOUSE AND FIRE HOSE REEL HOUSE
	FIRE ALARM BELL TOWER WITH CLOCK AND BELL AND FIRE ALARM BOX AND FIRE ENGINE HOUSE AND FIRE TRUCK HOUSE AND FIRE HOSE REEL HOUSE AND FIRE ALARM BELL TOWER

# BELLOWS FALLS

Including - North Westminster,  
Westminster & North Westminster,  
Windham County - VERMONT  
Also North Walpole - Cheshire County,  
NEW HAMPSHIRE

SARBORN MAP Co. New York  
APRIL, 1927

Copyright 1927 by the SARBORN Map Co.

NO. 10011 BELL FALLS, N. H. MAP  
FOR THE STATE OF VERMONT  
AS AUTHORIZED BY THE VERMONT  
LEGISLATURE, FEBRUARY 10, 1926  
AND 1927

There is no liability for the accuracy of the information  
contained herein unless it is shown to be fraudulent.

NEW REPORT, March, 1944

POPULATION:	
BELLOWS FALLS	4,326
NORTH WALPOLE	1,300
NORTH WESTMINSTER	600

Prevaling Winds - West and South.  
FAYERS - Snows piled as in legend.  
CRACKS - 85%.

### WATER FACILITIES

Water supply - From the Mill Pond, located 1 1/2 miles west of town, capacity 10,000,000 gallons and elevated 120' above street to town. Gravity system. Inflow system. Pumping from town into main. 1 double stream pump (vertical pump), capacity 1,000 gallons per minute. Flow control by flow regulator. See item No. 1.  
100' water of 4" to 2" pipe, 110 hydrants. Average daily consumption not known. Flow and domestic pressure at town 60 to 100 lb.

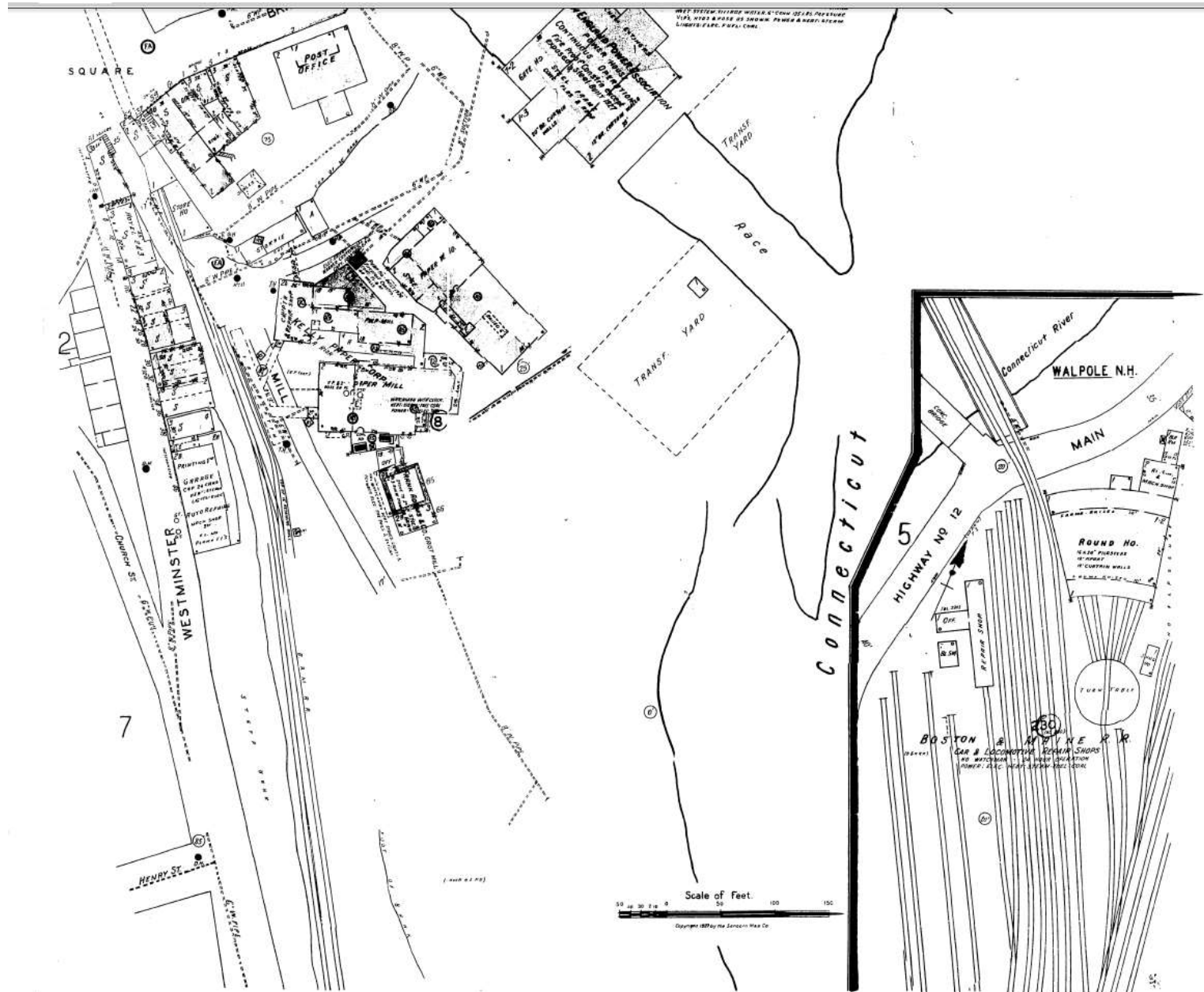
### FIRE DEPARTMENT

Volunteers - 1 chief, 2 assistant chiefs and 60 men, partly paid. 2 teams, 100' pail.  
District No. 1 - One 750 gallon per minute American LaFrance engine with 1,000' 2" hose and 40 gallon foam tank. One 500 gallon per minute Buffalo engine with 2,000' 2" hose and 100' 1 1/2" hose and 100 gallon foam tank. 1 Dodge truck with 100' 1 1/2" hose, 84 gallon per minute pump and tank for 100' 1 1/2" hose. 2 hoses. Total amount of 1 1/2" hose 4,000' of 1 1/2" hose 2,000'.  
Classified fire alarm system. 20 bells. Five alarm buildings in Fire Station No. 1, a elementary school, ordinary brick building. Air whistles at Station No. 1.  
NO FIRE LIMITS. NO FIRE DEPARTMENTS EXISTING OUTSIDE.



ADD'L INDEX, MARCH, 1944

PROPERTY	OWNER	PROPERTY	OWNER	PROPERTY	OWNER
Block 1, ...	...	Block 2, ...	...	Block 3, ...	...
Block 4, ...	...	Block 5, ...	...	Block 6, ...	...
Block 7, ...	...	Block 8, ...	...	Block 9, ...	...
Block 10, ...	...	Block 11, ...	...	Block 12, ...	...
Block 13, ...	...	Block 14, ...	...	Block 15, ...	...
Block 16, ...	...	Block 17, ...	...	Block 18, ...	...
Block 19, ...	...	Block 20, ...	...	Block 21, ...	...
Block 22, ...	...	Block 23, ...	...	Block 24, ...	...
Block 25, ...	...	Block 26, ...	...	Block 27, ...	...
Block 28, ...	...	Block 29, ...	...	Block 30, ...	...
Block 31, ...	...	Block 32, ...	...	Block 33, ...	...
Block 34, ...	...	Block 35, ...	...	Block 36, ...	...
Block 37, ...	...	Block 38, ...	...	Block 39, ...	...
Block 40, ...	...	Block 41, ...	...	Block 42, ...	...
Block 43, ...	...	Block 44, ...	...	Block 45, ...	...
Block 46, ...	...	Block 47, ...	...	Block 48, ...	...
Block 49, ...	...	Block 50, ...	...	Block 51, ...	...
Block 52, ...	...	Block 53, ...	...	Block 54, ...	...
Block 55, ...	...	Block 56, ...	...	Block 57, ...	...
Block 58, ...	...	Block 59, ...	...	Block 60, ...	...



# BOSTON AND MAINE RAILROAD

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## TIME TABLE NO. 58

Superseding Time Table No. 57

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FOR EMPLOYEES ONLY

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EFFECTIVE

12:01 A. M. SUNDAY

**APRIL 25, 1954**

**STUDY THE SPECIAL INSTRUCTIONS  
AND NOTE ALL CHANGES**

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F. W. BOUNKE,  
Vice President—Operations.

E. E. BAKER,  
Asst. General Manager.

W. E. BARNETT,  
Supt. Terminal Division.

O. C. HARDY,  
Supt. New Hampshire Division.

W. KAYNE,  
Gen. Frt. Transportation.

E. O. FETTER,  
Supt. Portland Division.

V. H. QUINN,  
Supt. Seaside Division.





Peter J. Gross  
8012 Tierra Entrada  
Fort Myers FL 33903

Boston and Maine Railroad  
STANDARD PLANS  
Compiled in Office of Chief Engineer  
Boston, Mass.  
B&MRRHS ARCHIVES PUB. #4

BOSTON   AND   MAINE   RAILROAD

NORMAL   CONSISTS   OF   PASSENGER   TRAINS

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TO CONFORM WITH SERVICE PROVIDED BY  
TIME TABLE NO. 60 EFFECTIVE APRIL 24, 1955

For the information and assistance of those concerned with making up trains and assigning passenger equipment this booklet shows the NORMAL consist of each train including regular weekend additional cars. The type of car indicated is that which should be assigned when available and it is essential that the turns indicated be maintained unless an identical car is on hand to fill a particular assignment. When proper equipment is not available this office should be notified.

Whenever changes are made in consists, revised pages will be issued.

D. R. FOLSOM  
Supt. Passenger Transportation

CONNECTICUT RIVER LINE TRAINS

NORTHWARD TRAINS

<u>CAR-TYPE</u>	<u>DAYS</u>	<u>FROM</u>	<u>TO</u>	<u>TURN OR FORWARDING</u>
<u>NO. 71 DAILY NORTH WIND - NEW YORK TO BRETTON WOODS</u>				(NH66)
				<u>NOTE</u>
Baggage-Parlor-Lounge (NH)	Daily	New York	Bretton Woods	70
2 Coaches(M-AC)	"	" "	"	70
Diner (NH) **	"	" "	W.R.Jct.	70
Coach(M-AC)	"	" "	Montreal	To CV 307 (337 Sun.)

EQUIPMENT:- from N.H. No. 66 at Springfield

CARS: 5-3

NOTE - Runs - June 24 to Sept. 10 inclusive

\*\* On June 24 only diner to be dropped at Bellows Falls for No. 74.

NO. 73 EX. SUNDAY - SPRINGFIELD TO WHITE RIVER JCT.

RPO, (30ft) (from 703)	Ex. Sun.	Springfield	W.R. Jct.	728
Express Car (NH or BM)	"	Harlem River	" " "	728
Storage Car (CV or BM)	"	Springfield	" " "	728
Baggage Car (BM)	"	"	" " "	728
Coach (M-AC)	"	"	" " "	728
Express Car (J)	Ex. Sa-Su	"	North-hampton	718
Express Car (J)	" " "	"	Holyoke	718

EQUIPMENT: - from 718, 728 (7060) Sun), N.H. 98 at Springfield, RPO from 703 at Greenfield.

CARS: 6-5-4-5

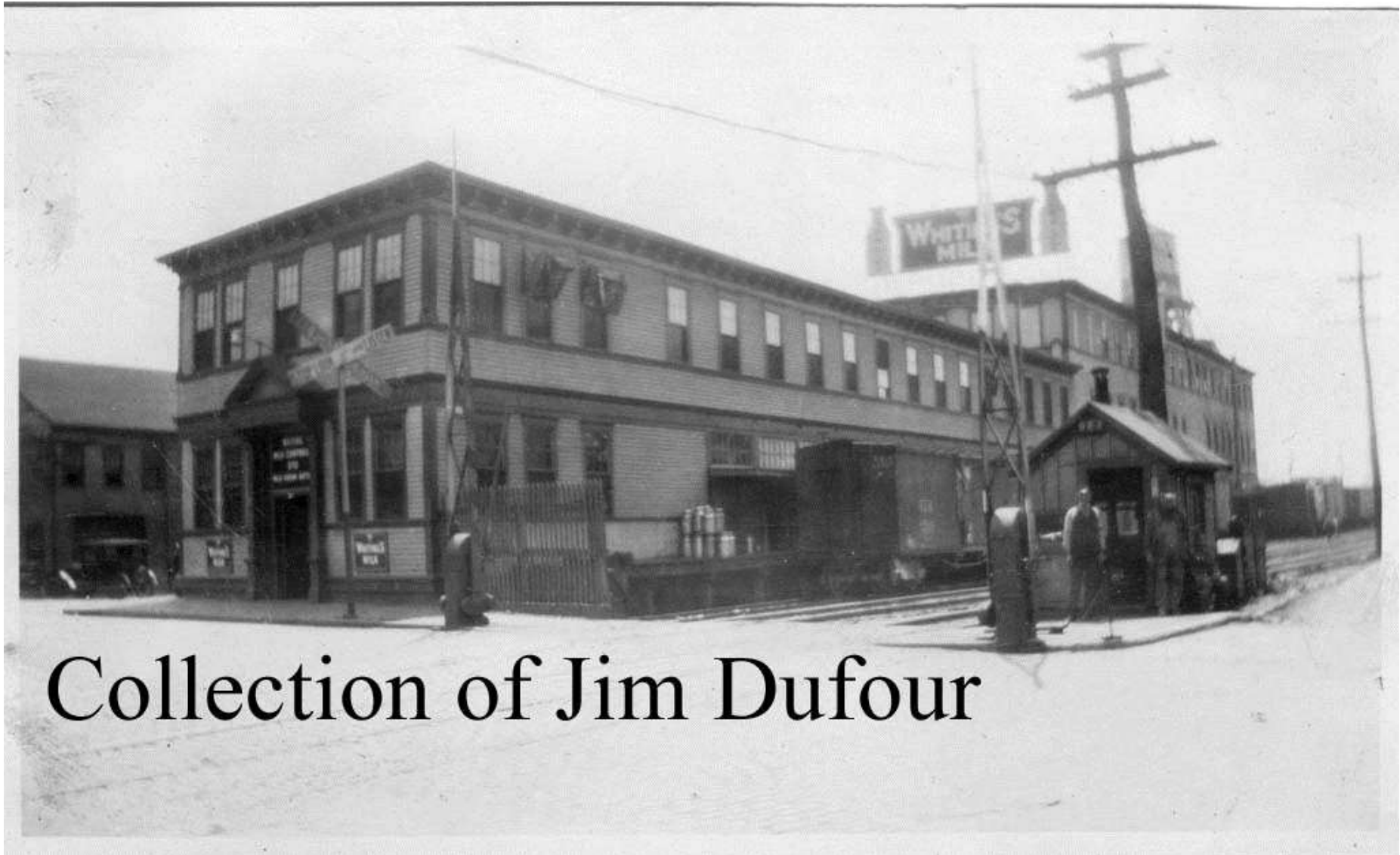




# What are we looking for?, cont.

- **Specific Region and Specific Time Period:**
  - Photos of terrain
  - Photos and drawings of houses, buildings, cities, industries, farms, and anything else you can think of that you might want to model
  - Industries that were serviced by the RR in the modeled areas in the time period of interest





Collection of Jim Dufour



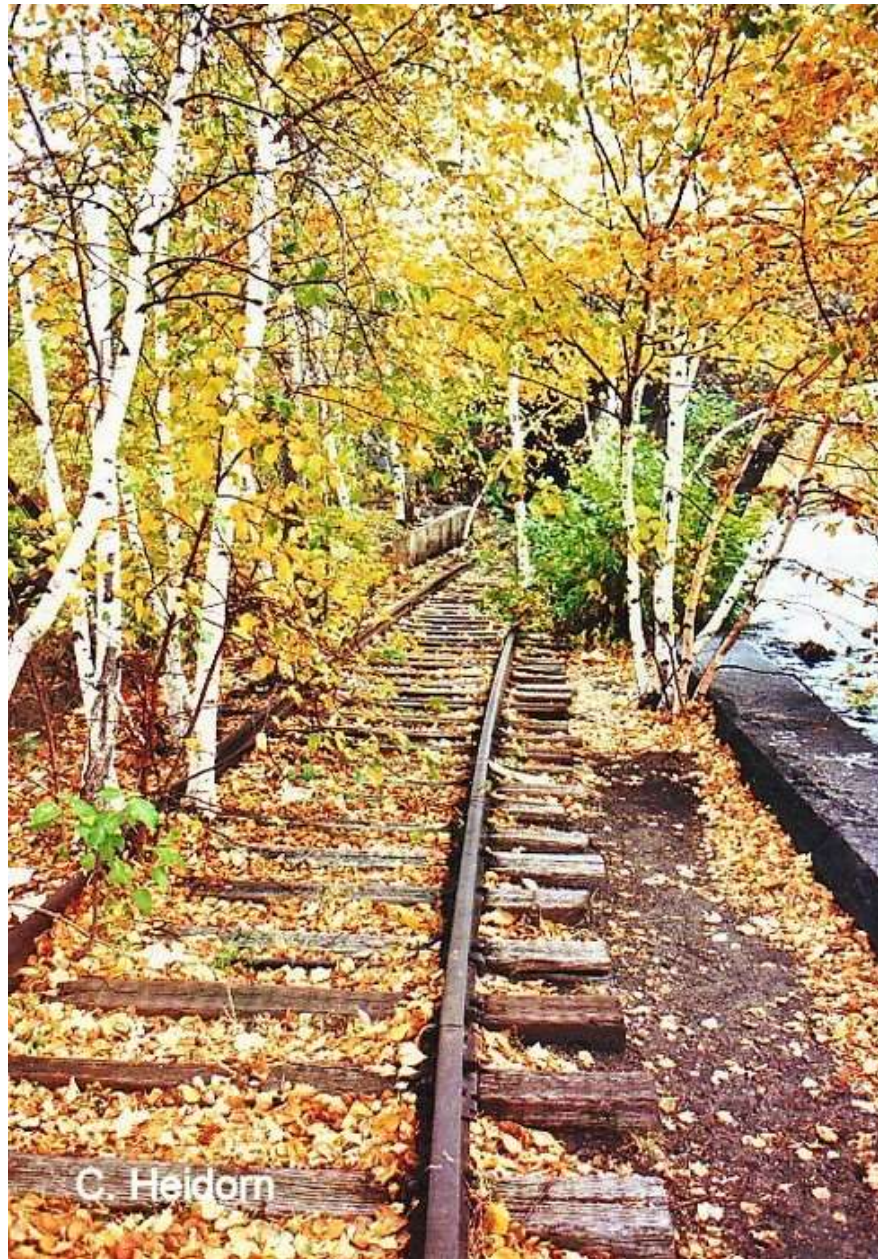
C. Heidorn





C. Heidorn









## A WORLD FAMOUS INDUSTRY - THE NORTON COMPANY OF WORCESTER

**Norton's chief output is grinding wheels** and it makes about 200,000 different types and shapes of them..... Other important products **include non-slip tiles for floors and stairs, ceramic mosaic tile, refractories for all purposes, ceramic surface plates, grinding and lapping machines, and encapsulating and bottle labeling machines.**

To guard against chipping or cracking in transit, Norton **packages large wheels in wooden boxes or barrels packed with sawdust. Smaller wheels are shipped in corrugated boxes packed with sawdust or shredded paper. Pulpstones are so large and heavy that four of them may fill a flat car. On the other hand, dozens of small mounted points or burrs can be shipped in a single small package.**

The **Boston & Maine serves only of Norton's buildings directly**; switching cars to that Plant from the track of our Worcester-Gardner (*ex Worcester & Concord Main Line*). All other deliveries and shipments are exchanged with the Norton Railroad at the Company's main yard which connects with our main line tracks. From this yard, the Norton Railroad moves incoming and outgoing cars to and from its many buildings. It uses its own cars to move materials between plants during the manufacturing process.

**The major inbound traffic brought by the B&M to the Norton Company** consists of the **raw abrasives** from Canada and **coal** (*from probably Mystic Wharf where colliers from Hampton Roads were off-loaded*). Also inbound were many **miscellaneous raw materials including clay, brick, sand, sulphur and lumber. Outbound, the B&M handles grinding machines, all types of grinding wheels, abrasive grains and refractory material. (Much of the smaller, lighter items were probably LCL shipments in 1951.)**

<u>STATION</u>	<u>ROAD</u>	<u>1948</u>	<u>1949</u>	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>	<u>1956</u>
Berlin - Berlin Mills Ry	<b>BM Ry</b>		4,787	6,447	7,193	6,136	6,521	6,196	6,957	6,834
Other New Hampshire	<b>var.</b>		5,856	4,908	4,836	5,902	3,847	3,374	3,896	3,853
Wells River	<b>CP</b>		38,581	44,530	45,272	38,313	41,462	39,854	41,403	40,838
Wells River	<b>M&amp;WR</b>		1,262	1,577	1,450	1,335	1,459	782	689	712
White River Junction	<b>CV</b>		21,272	24,050	24,409	20,119	22,147	20,695	22,473	19,638
Bellows Falls	<b>Rutland</b>		9,756	9,890	9,715	8,514	9,252	9,104	10,379	10,340
Other Stations	<b>CV</b>		<u>7,167</u>	<u>8,216</u>	<u>8,348</u>	<u>6,886</u>	<u>8,130</u>	<u>9,195</u>	<u>8,831</u>	<u>9,874</u>

**TOTAL  
CONNECTICUT  
RIVER**

88,681 99,618 101,223 87,205 92,818 89,200 94,628 92,089

Worcester	<b>B&amp;A</b>		2,603	2,161	2,691	2,011	1,977	2,130	2,319	2,458
Worcester	<b>NH</b>		49,369	52,019	52,898	50,553	51,024	45,628	46,081	46,017
Lowell	<b>NH</b>		7,078	7,321	7,959	7,293	7,329	5,515	7,521	5,865
Fitchburg	<b>NH</b>		1,072	1,412	1,464	1,351	1,904	1,394	1,863	2,159
Other Stations	<b>NH</b>		<u>1,449</u>	<u>1,858</u>	<u>1,735</u>	<u>1,442</u>	<u>1,313</u>	<u>1,428</u>	<u>1,488</u>	<u>1,337</u>

**TOTAL  
WORCESTER  
AREA**

61,571 64,771 66,747 62,650 63,547 56,095 59,272 57,836

<u>STATION</u>	<u>ROAD</u>	<u>1948</u>	<u>1949</u>	<u>1950</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>	<u>1956</u>
Berlin - Berlin Mills Ry	<b>BM Ry</b>		4,406	4,993	7,832	7,059	6,505	5,116	6,319	6,873
Other New Hampshire	<b>var.</b>		1,364	1,883	1,516	1,269	1,167	1,317	1,095	1,518
Wells River	<b>CP</b>		25,967	27,391	25,969	22,499	22,474	19,876	21,556	21,011
Wells River	<b>M&amp;WR</b>		2,471	2,237	1,892	1,717	1,903	1,700	1,926	1,537
White River Junction	<b>CV</b>		12,526	12,647	12,028	10,888	10,349	9,095	10,600	9,025
Bellows Falls	<b>Rutland</b>		8,674	9,199	7,899	8,406	7,170	6,568	7,927	7,469
Other Stations	<b><u>CV</u></b>		<u>5,555</u>	<u>6,331</u>	<u>5,739</u>	<u>5,573</u>	<u>6,161</u>	<u>6,724</u>	<u>7,054</u>	<u>7,170</u>
	<b>TOTAL CONNECTICUT RIVER</b>		60,963	64,681	62,875	57,411	55,729	50,396	56,477	54,603

# What are we looking for?, cont.

- **For specific industries:**
  - Photos, drawings, descriptions, anecdotes, logos, histories, bills of lading, production data
  - Process flow information
  - Data (car loads/week, type of material, type of car) on raw materials received, from whom and where
  - Data (car loads/week, products, type of car) on products shipped and to whom and where



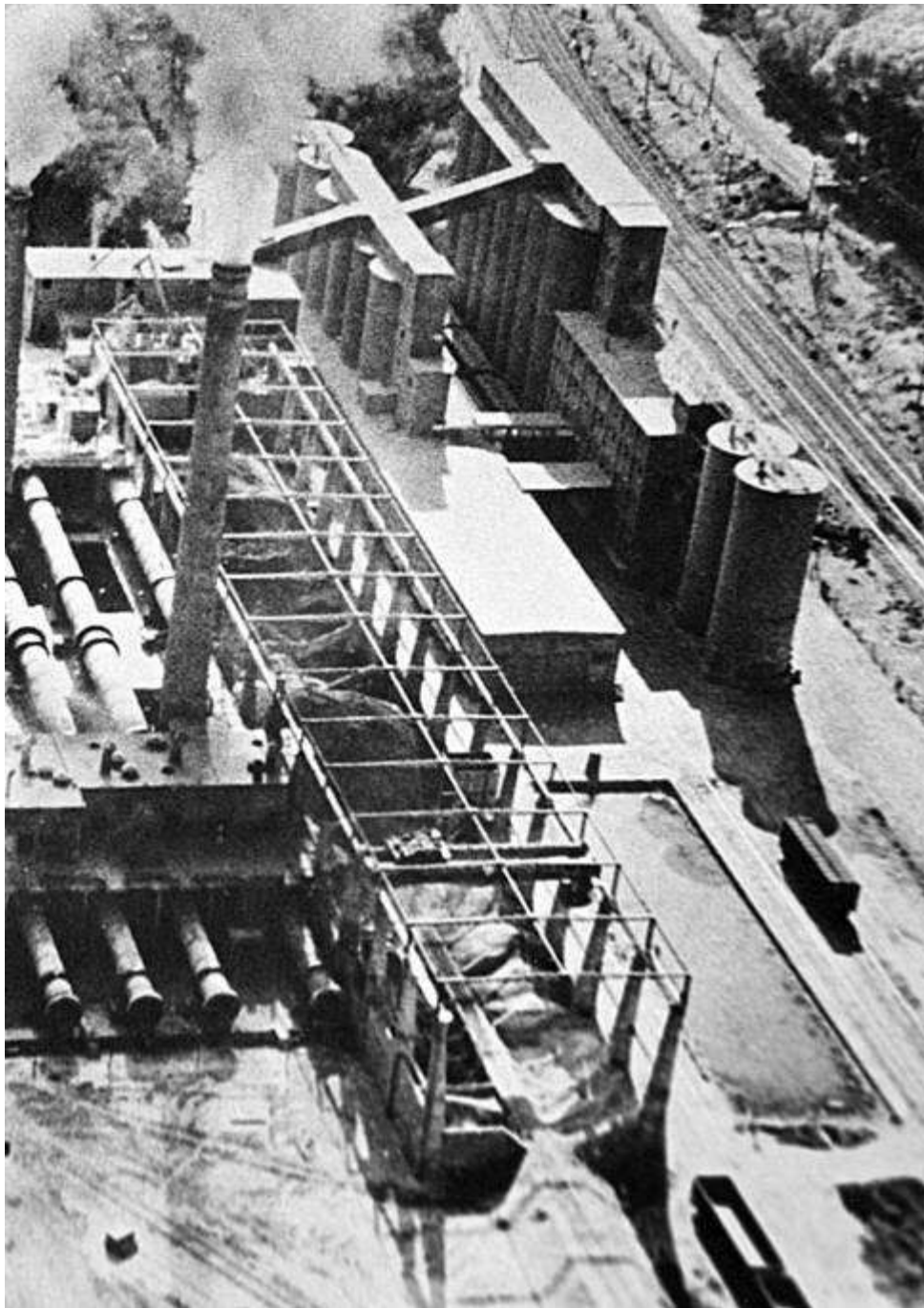
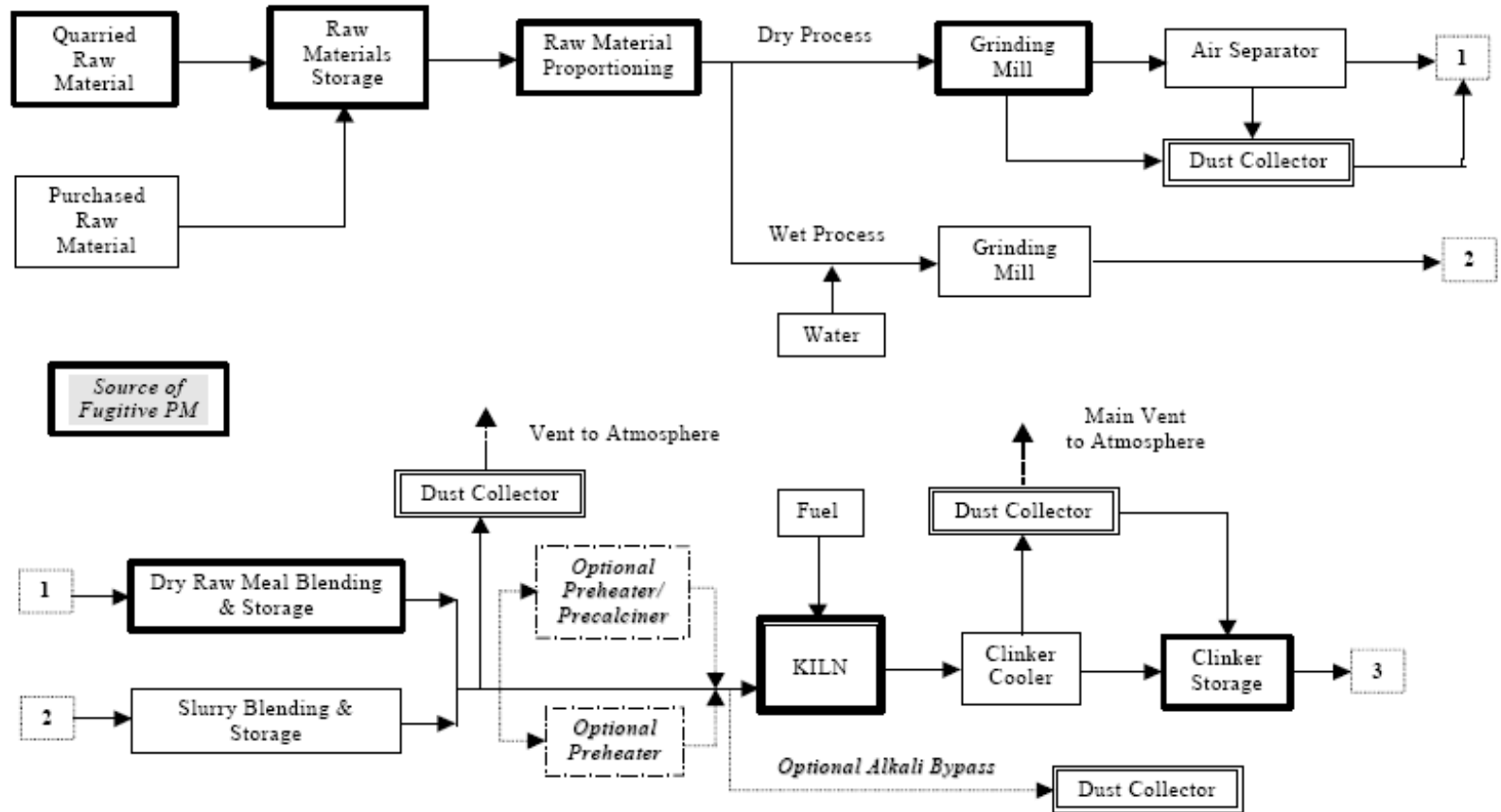






Figure 2-2. Cement Manufacturing Process Flow Diagram



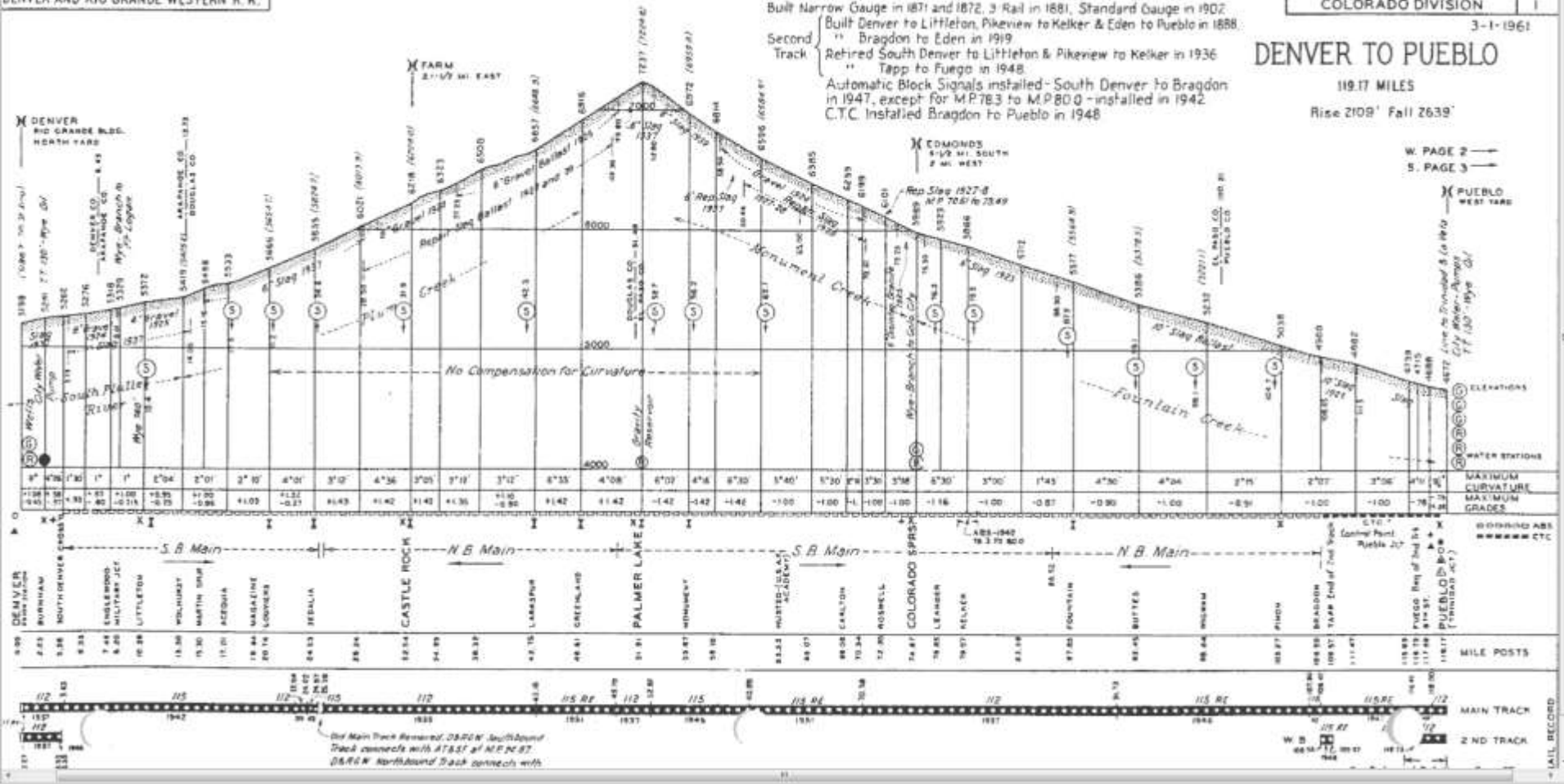
<u>Division</u>	<u>Station</u>	<u>State</u>	<u>Industry</u>	<u>Specific Location</u>
Conn River	Bellows Falls	VT	Bellows Falls Coop Creamery	
Conn River	Bellows Falls	VT	Bragg Lumber Co.	
Conn River	Bellows Falls	VT	Checkerboard Feed Store	
Conn River	Bellows Falls	VT	Green Mountain Paper Co.	
Conn River	Bellows Falls	VT	Robertson Paper Co.	
Conn River	Bellows Falls	VT	Standard Paper Co.	
Conn River	Bellows Falls	VT	Wayne Feed Co.	
Conn River	Bellows Falls	VT	Winslow Brothers & Smith Co.	
Fitchburg	Fitchburg	MA	Commonwealth Plastic	
Fitchburg	Fitchburg	MA	DH Dillon	
Fitchburg	Fitchburg	MA	Eastern States Farmers Exchange	
Fitchburg	Fitchburg	MA	Falulah Paper Co.	
Fitchburg	Fitchburg	MA	Fitchburg Engr. Corp.	
Fitchburg	Fitchburg	MA	Fitchburg Hardware Co.	
Fitchburg	Fitchburg	MA	Fitchburg Welding Co.	
Fitchburg	Fitchburg	MA	Fitchburg Yarn Co.	
Fitchburg	Fitchburg	MA	General Electric Co.	
Fitchburg	Keene	NH	Ashuelot Valley Lumber Co.	
Fitchburg	Keene	NH	Cheshire County Farmers Exchange	
Fitchburg	Keene	NH	Clark Distributors	
Fitchburg	Keene	NH	Economy Coal Co.	
Fitchburg	Keene	NH	Elm City Grain Co.	
Fitchburg	Keene	NH	Gas Service Co.	
Fitchburg	Keene	NH	Holbrook Groc. Co.	
Fitchburg	Keene	NH	Hope Coal Co.	
Fitchburg	Keene	NH	Kapiloff Poultry Co.	

# DENVER TO PUEBLO

119.17 MILES  
Rise 2109' Fall 2639'

Built Narrow Gauge in 1871 and 1872, 3 Rail in 1881, Standard Gauge in 1902.  
 Second Track Built Denver to Littleton, Pikeview to Kelker & Eden to Pueblo in 1888.  
 " Bragdon to Eden in 1919  
 " Reired South Denver to Littleton & Pikeview to Kelker in 1936  
 " Tapp to Fuego in 1948.  
 Automatic Block Signals installed - South Denver to Bragdon in 1947, except for M.P. 78.3 to M.P. 80.0 - installed in 1942  
 C.T.C. installed Bragdon to Pueblo in 1948

W. PAGE 2  
S. PAGE 3



# Sources of this information

- **Many places and many ways:**
  - **Magazines**
  - **RR Historical Societies**
  - **NMRA library and SIGs**
  - **Libraries, including the Library of Congress**
  - **Specialized book publishers/sellers**
  - **Companies (rr and industrial)**

# Sources of this information, cont.

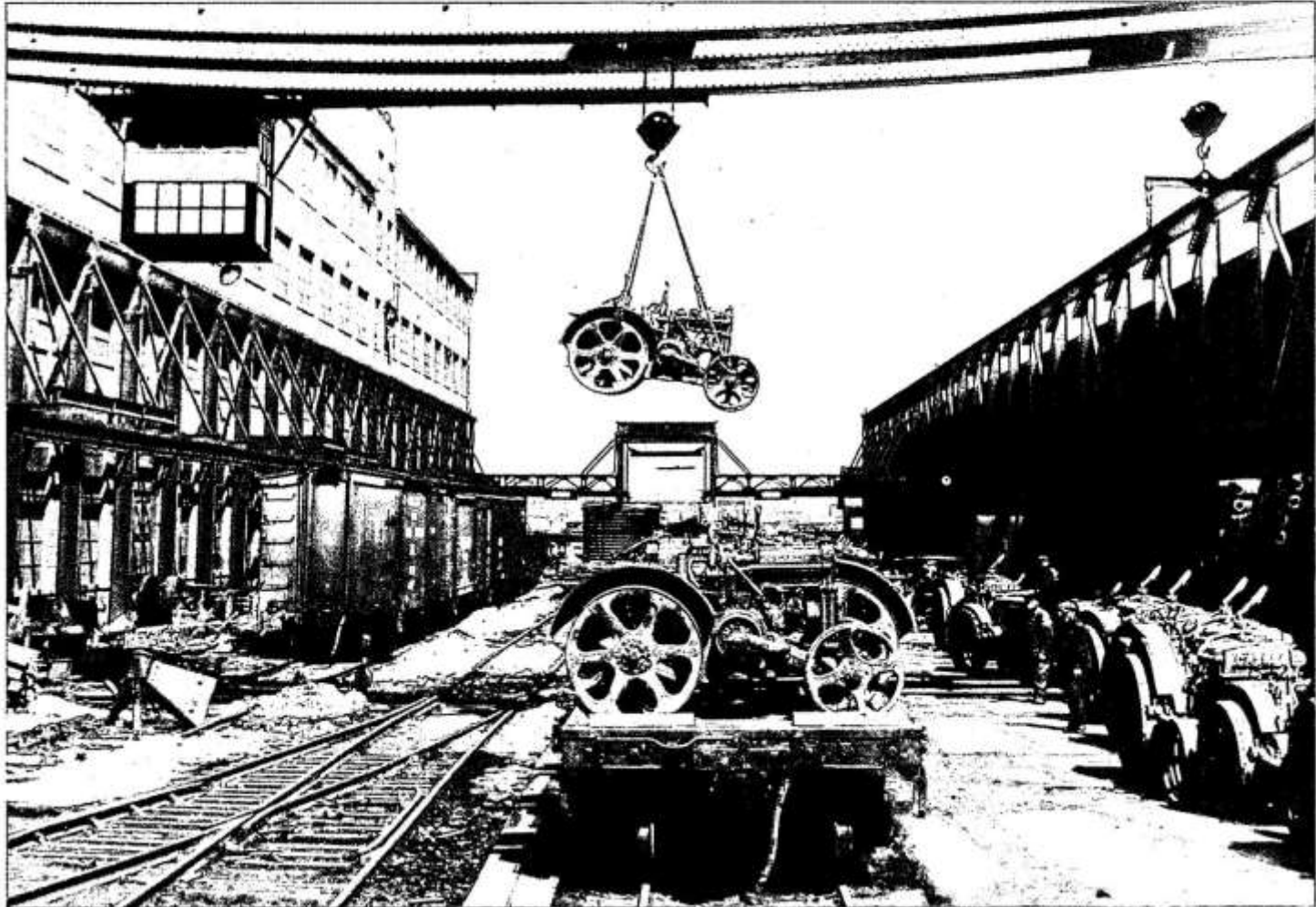
- **Many places and many ways (cont.):**
  - **Uncle Sam**
  - **Model Railroad Clubs**
  - **Model railroad conventions and train shows**
  - **Personal Visits**
  - **The Internet**
- **Let's look at some of these sources**

# Sources: Magazines

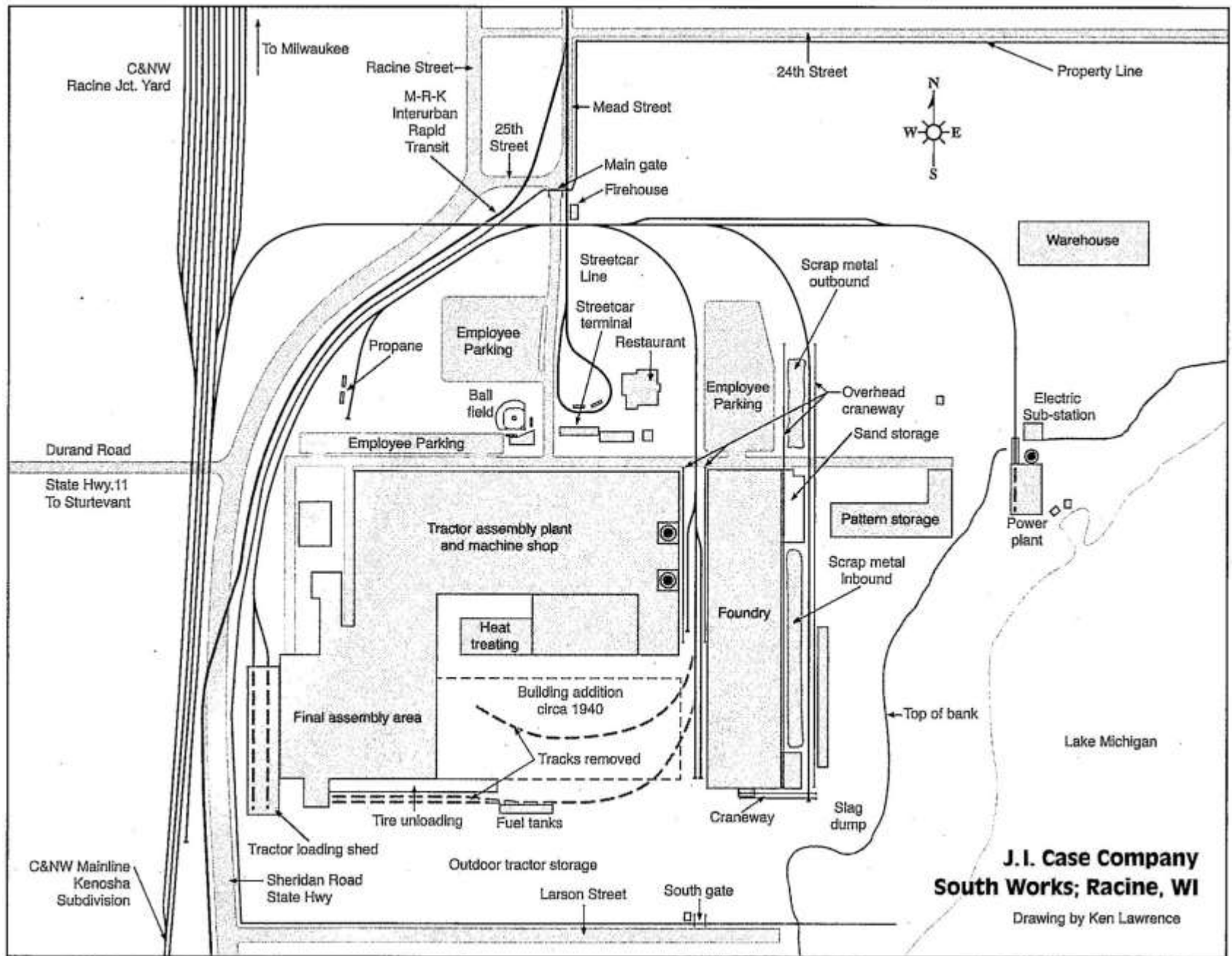
- Many modeling magazines have helpful articles
- Classic Model RR magazines include: Model Railroader, Railroad Model Craftsman, Narrow Gauge and Short line Gazette, Mainline Modeler
- Trains and Classic Trains are all about the Prototype
- NMRA monthly magazine
- NMRA Special Interest Groups (SIG) and RR Historical Societies issue periodic magazines specific to the railroad of interest

# Trains and tractors: The J.I. Case plant in Racine, Wisconsin

A look at how railroads served a large tractor manufacturing plant/Keith M. Kohlmann







# WHITE RIVER JUNCTION

## One ball/red light

Trains from the Central Vermont (Northern Div.) or movements from the west may cross.

## Two balls/red lights

Trains from B&M New Hampshire Div. (Concord-White River Jct.) main line or movements from the east may cross. Switching over the diamond east and west also permitted.

## Three balls/red lights

Trains from B&M New Hampshire Div. (Berlin-White River Jct.) or movements from the north may cross. Switching over diamond north or south also permitted.

## Four balls/red lights

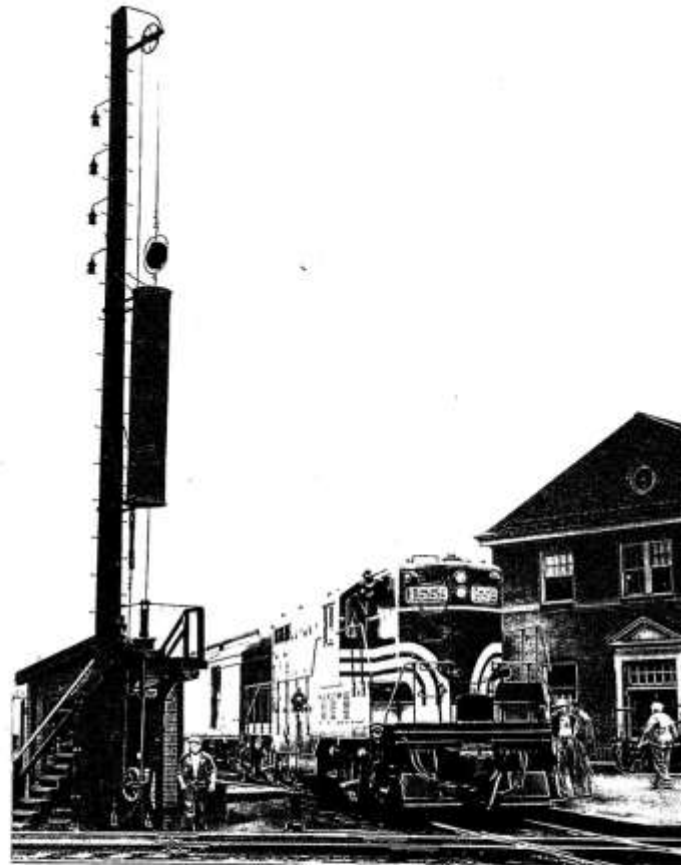
Trains from the CV (Southern Div.) or movements from the south may cross.

## No balls/red lights

All trains or movements approaching the diamond must stop. Any movement over the diamond when no signal is displayed will be made only on authority of the signalman.

Source: B&M Employees Timetable, June 21, 1946

The B&M train for Berlin, N.H., awaits departure at White River Junction. The switch tender is about to reset the signal to show four balls so the train may cross from south to north.



# Modeling the BC&G's Dundon Shops in Reverse

Article by Dracke Stover, MMR



# THE BELLOWS FALLS MILK

Rodney P. Cowen



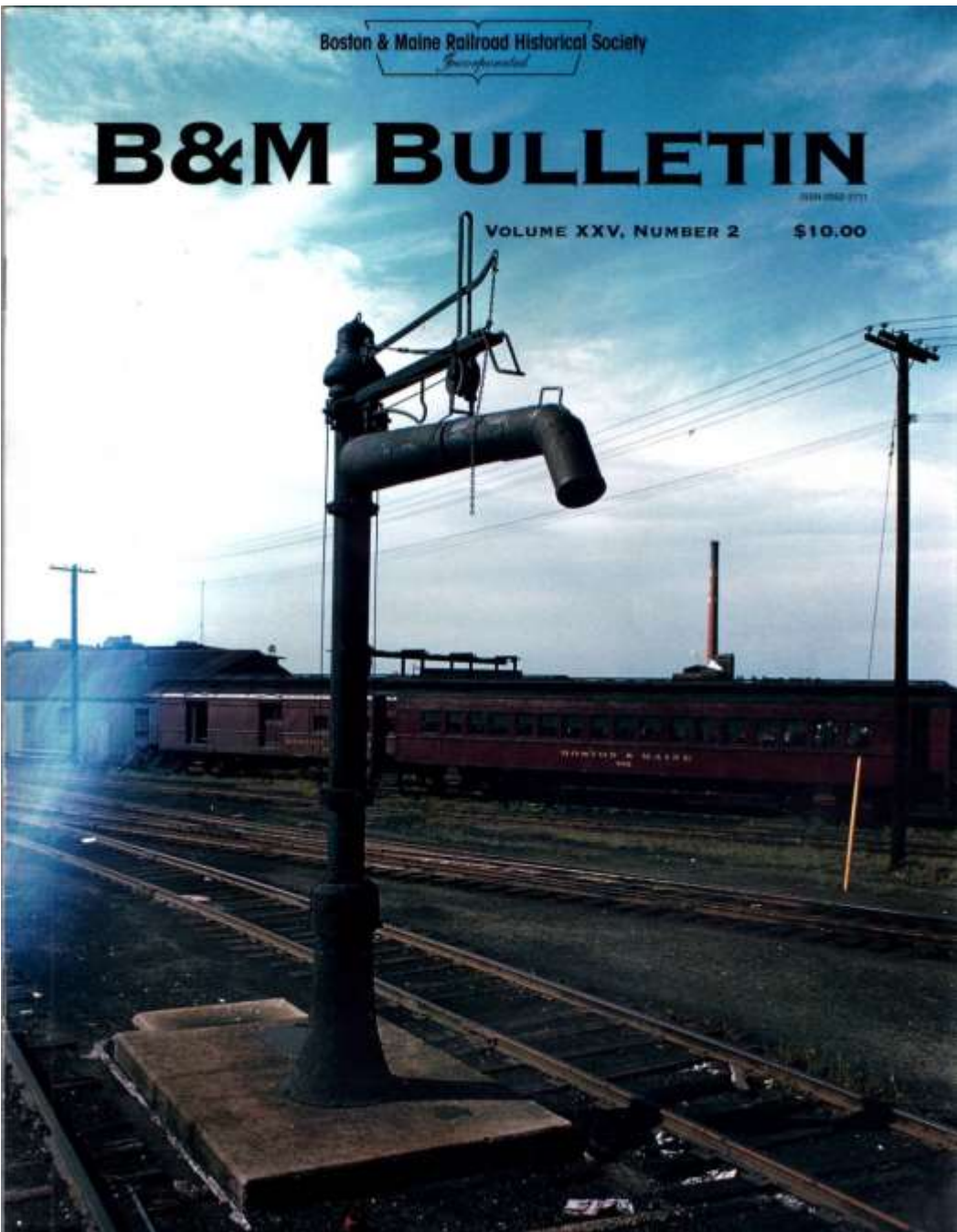
# Sources: Historical Societies

- **Some have extensive, accessible holdings of original railroad info, including drawings, photos, timetables, and industries serviced**
- **Publish periodic magazines or newsletters with information of interest**
- **Publish specialized materials of interest to modelers**
- **Hold conventions that attract people with special info, manufactures and modelers**
- **Have people with great knowledge of the RR, who live to answer your questions and get you the information you want**

Boston & Maine Railroad Historical Society  
*Incorporated*

# B&M BULLETIN

VOLUME XXV, NUMBER 2 \$10.00



Boston & Maine Railroad Historical Society  
19 Incorporated 71

# NEWSLETTER

Meeting/Membership Telephone Number (978) 454-3600

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January — February 2012

Bob Warren, Editor (bmbobwarren@comcast.net)

Visit the B&MRRHS on the web at: <http://www.trainweb.org/bmrrhs/>

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## B&MRRHS CALENDAR

Meetings commence at 3:30 pm on the second Saturday at Rogers Hall unless otherwise indicated.

2012

**Jan. 14th** Mal Sokol will take us on a journey through New England.

**Feb. 11th** Gary Gurski will present "A Tale of two cabooses."

**Mar. 10th** A visit to the Pepperell Model RR Club is scheduled.

**April 14th** Our joint meeting in Lowell with MassBayRRE **cancelled** Instead a presentation will be on the Manchester & Lawrence Branch by Erich Whitney, head of the Rail-trail in Derry, NH.

## Membership Notice

Members, please notify the Society when you move and let the Post Office know that you want all mail forwarded. First Class will be forwarded up to one year and all other MAIL up to six months. Without your notification your Society mailings will be returned to the B&MRRHS as "UNDELIVERABLE".

All change of addresses should be sent to the Derry PO Box in care of Membership or if possible e-mailed via [CPC835-DD@juno.com](mailto:CPC835-DD@juno.com).

Buddy Winiarz, Membership Secretary, B&MRRHS

## Directions To The Rogers Hall Society Meeting Location

From Rt. 495 take exit 38 which is Rt. 38, go right, this is Rogers St. Depending if you come from the north or south there are six and seven sets of lights respectively. Approximately 1.3 miles from Rt. 495 is the last set of lights (working) bears to the left here. Rogers Hall is about 3 tenths of a miles on your right. Directly across the street is Rogers Fort Hill Park, parking is available there.

If you come from Rt. 133 (Andover St.) follow that until you intersect Rt. 38 in Lowell. Go through this intersection and take your third left which is High St. Go to the end and take a left and this will take you to Rogers Hall on your left and Rogers Fort Hill Park on the right.

If you come from Rt. 38 or Rt. 113 you need to get off at the overhead traffic circle as if going to St. Johns Hospital. Follow this to the intersection of Rts. 38 and 133 and follow the above directions to High St.

## NEXT ISSUE

The deadline for submitting material for the Newsletter is the first of each even month. Such material can be sent to the editor at the above email address or to 2285 Stagecoach St. SW, Los Lunas, NM 87031

The editor reserves the right to edit any submitted material.



Boston & Maine Railroad Historical Society  
19 Incorporated 71

# MODELERS NOTES

Bruce Bowden, Co-editor  
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ISSUE #136  
January – February 2012

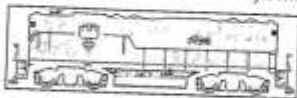
Bob Warren, Co-Editor  
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## Current News

Intermountain Railway Co. is releasing the B&M FT A-B sets in the original scheme with the winged side heralds, four numbers each in HO and N scale. HO Models will be DC and DCC equipped at \$219.95 List and with optional Soundtraxx Taunani sound \$359.95 List. The N scale models are DCC equipped and list for \$199.95. Intermountain like other manufacturers is making very little if any extra for stock. If you want it be sure to reserve it. Models are due in the July-August timeframe.

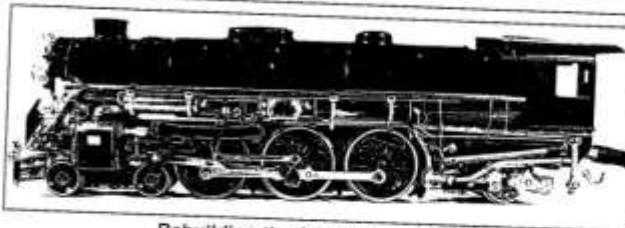
See [www.intermountain-railway.com](http://www.intermountain-railway.com)



In N scale Atlas Model Railroad Co. has announced the June release of a new batch of GP-7/9 diesel locomotives featuring new paint schemes and three road numbers each for the B&M and MEC plus an undecorated version. The models are being offered in both a standard DC and a DCC decoder-equipped version. The MEC GP-7 Phase II models are painted gold and green, the B&M GP-9's in blue and white. MSRP is \$109.95 in Standard DC and for \$144.95 in DCC.

According to Atlas, both types of models feature a powered, low-friction drive; blackened metal wheels; dual brass flywheels; directional lighting; golden-white LEDs; and Accumate couplers. The DCC-equipped version features a NCE Decoder.

Also in N for June Atlas plans a USRA Double Sheath Box Car in two B&M numbers (#70159 and #70187), MSRP \$20.95.



## Rebuilding the Athearn P-4, Part VI

By Dave McMullian

The last phase of our work on the P-4 project involved adding details below the running board on the right side. Now we are going to work on the lower left side, as well as the front end. Before we get started, let me say that it has been difficult to determine the best sequence for assembly throughout this project. The model involves a lot of delicate parts and fragile assemblies. As a rule, I've tried to build subassemblies whenever possible and leave them unattached while I work on other areas. This minimizes breakage, although I've had a couple of boo-boos. This sequence issue is one of the perils of trying to write a series while the work is still in progress. I suggest that you read all my articles thoroughly before embarking on the project and study how the various parts interact. You may prefer to rearrange some of the procedures. One other comment before we start: I've learned that as parts are added, I need to keep filing, trimming, tweaking, and bending work already done. This project involves a large number of hand-fabricated parts, and inevitably, there will be conflicts. So be patient, do lots of trial fits, and work through it one step at a time.

Before we start on parts that are unique to the left side, there are several that are the same as the right side. Refer to Part V in MN #130 for instructions on the following:

Driver Brakes – Kemtron X-222 or similar

Ashpan – Cal-Scale 190-249

Okadee Blow-off Cock – Cary BOC-160 or Precision Scale 3109

Brake Lever on the side of the trailing truck – scratch build

Exhaust steam line to the feedwater heater – scratch build

Valve Guide (PSC 31958) behind the cylinders and linkage

2 Bolt Heads (Tichy 8016) and plate on the cylinders

Before attaching the left ashpan, trim .100 from the forward end, and then cut the back end so the overall length is 1.25". Mount it so the forward end is .062 back from the front edge of the firebox. Note that the valve guide is mounted upside-down compared to the one on the right side (see Fig. 1 and compare to the last installment). The combination lever and crosshead link are identical to those on the right; see Fig. 11 in Part V. The exhaust steam line to the feedwater heater is also shown in Fig. 1.

Before we start building the various air, steam, and water lines, you should try to collect as many photos and reference materials as possible to see how these lines are routed. I have copies of the Lima factory drawings for all the plumbing but I still needed to refer to my photos frequently. There are a number of lines that run from the pilot area all the way back to the ashpan area. To simplify fabrication, I divided these lines into sections, with the breaks hidden behind the two air reservoirs. The forward sections



# Sources: NMRA

## **NMRA Library:**

- NMRA library in Chattanooga, TN**
- They do research for you**
- You can visit and do your own research**
- NMRA members can search and find information in the library on-line**
- Publish specialized books**

An aerial photograph of a large freight car yard, showing numerous rows of freight cars parked on tracks. The cars are arranged in neat, parallel lines, extending into the distance. The background shows a body of water and some industrial structures. A large red rectangular box is overlaid on the upper portion of the image, containing the title and subtitle in white text. Another smaller red rectangular box is overlaid on the lower portion of the image, containing the authors' names in white text.

# THE POSTWAR FREIGHT CAR FLEET

*North American Freight Car Designs  
from 1898 to 1947*

LARRY KLINE AND TED CULOTTA

C. T. C. - R. E. R. .... No. 306  
Canada C. T. C. - R. E. R. .... No. 305  
Ala. P. S. C. - R. E. R. .... No. 306  
Canada Ala. P. S. C. - R. E. R. .... No. 305  
Ark. P. S. C. - R. E. R. .... No. 306  
Canada Ark. P. S. C. - R. E. R. .... No. 305  
Cal. P. U. C. - R. E. R. .... No. 306  
Canada Cal. P. U. C. - R. E. R. .... No. 305  
Conn. P. U. C. - R. E. R. .... No. 306  
Canada Conn. P. U. C. - R. E. R. .... No. 305  
Ill. C. C. - R. E. R. .... No. 306  
Canada Ill. C. C. - R. E. R. .... No. 305  
P. S. C. - Ind. - R. E. R. .... No. 306  
Canada P. S. C. - Ind. - R. E. R. .... No. 305  
Me. P. U. C. - R. E. R. .... No. 306  
Canada Me. P. U. C. - R. E. R. .... No. 305  
P. S. C. - Md. - R. E. R. .... No. 306  
Canada P. S. C. - Md. - R. E. R. .... No. 305  
Mass. D. P. S. - R. E. R. .... No. 306  
Canada Mass. D. P. S. - R. E. R. .... No. 305  
Mich. P. S. C. - R. E. R. .... No. 306  
Canada Mich. P. S. C. - R. E. R. .... No. 305  
P. S. C. - Mo. - R. E. R. .... No. 306  
Canada P. S. C. - Mo. - R. E. R. .... No. 305



By The National Model  
Railroad Association

P. S. C. - Nev. - R. E. R. .... No. 306  
Canada P. S. C. - Nev. - R. E. R. .... No. 305  
P. U. C. - N. J. - R. E. R. .... No. 306  
Canada P. U. C. - N. J. - R. E. R. .... No. 305  
N. M. C. C. - R. E. R. .... No. 306  
Canada N. M. C. C. - R. E. R. .... No. 305  
P. S. C. - N. Y. - R. E. R. .... No. 306  
Canada P. S. C. - N. Y. - R. E. R. .... No. 305  
N. D. P. S. C. - R. E. R. .... No. 306  
Canada N. D. P. S. C. - R. E. R. .... No. 305  
Ohio - R. E. R. .... No. 306  
Canada Ohio - R. E. R. .... No. 305  
Pa. - P. U. C. - R. E. R. .... No. 306  
Canada Pa. - P. U. C. - R. E. R. .... No. 305  
R. C. Tex. - R. E. R. .... No. 306  
Canada R. C. Tex. - R. E. R. .... No. 305  
P. S. C. - U. R. E. R. .... No. 306  
Canada P. S. C. - U. R. E. R. .... No. 305  
Va. C. C. - R. E. R. .... No. 306  
Canada Va. C. C. - R. E. R. .... No. 305  
P. S. C. - W. Va. - R. E. R. .... No. 306  
Canada P. S. C. - W. Va. - R. E. R. .... No. 305  
Wyo. P. S. C. - R. E. R. .... No. 306  
Canada Wyo. P. S. C. - R. E. R. .... No. 305

Vol. LXVIII ... No. 3. .... JANUARY 1953. .... QUARTERLY

OF THE  
**UNITED STATES, CANADIAN AND MEXICAN RAILROADS**

Stamp here date received.

Showing by Car Numbers,  
the Marked Capacity, Length,  
Dimensions and Cubical Capacity,  
of Cars used to transport Freight.

This publication does NOT set forth Gallonage of Tank Cars for Tariff purposes. (See note page 1.)

ISSUED JANUARY 1, 1953.

EFFECTIVE JANUARY 10, 1953.  
(Except as noted.)

"The form of this publication is authorized under special permission of the Interstate Commerce Commission No. 166822 of February 24, 1938 (amendment No. 5), to and including March 13, 1953, with which date this permission expires, unless sooner revoked or extended."

Issued on one day's notice, under authority of Rule 10 (j), Interstate Commerce Commission  
Tariff Circular No. 20.

Issued on one day's notice under special authority of the Board of Transport Commissioners  
for Canada No. 142 of May 12th, 1924.

(Also, both the form of this publication and its issuance on one day's notice are authorized by the respective State Commissions, as follows:-

ARKANSAS PUBLIC SERVICE COMMISSION	AUTHORITY	Case No. 809	OF	APRIL 19, 1937
CALIFORNIA—PUBLIC UTILITIES COMMISSION OF	SPECIAL PERMISSION	T. C. No. 502	OF	MARCH 20, 1951
CONNECTICUT PUBLIC UTILITIES COMMISSION	AUTHORITY	SN-555	OF	DECEMBER 2, 1943
FLORIDA RAILROAD AND PUBLIC UTILITIES COMMISSION	AUTHORITY	RA-247	OF	JULY 7, 1942
ILLINOIS COMMERCE COMMISSION	SPECIAL PERMISSION	No. R-12563	OF	JUNE 8, 1943
INDIANA PUBLIC SERVICE COMMISSION	SPECIAL PERMISSION	T. B. 4429	OF	APRIL 17, 1937
MAINE PUBLIC UTILITIES COMMISSION	SPECIAL PERMISSION	R. R. 2337	OF	JUNE 1, 1949
MASSACHUSETTS DEPARTMENT OF PUBLIC UTILITIES	SPECIAL PERMISSION	P. S. C.-503-H	OF	SEPTEMBER 14, 1914
MICHIGAN PUBLIC SERVICE COMMISSION	SPECIAL PERMISSION	No. 679	OF	MAY 13, 1941
MISSOURI PUBLIC SERVICE COMMISSION	AUTHORITY	Rule 10 (j)	OF	CIRCULAR NO. 42
	SPECIAL PERMISSION	No. 5676 (amendment)	OF	MARCH 8, 1951
NEVADA PUBLIC SERVICE COMMISSION	AUTHORITY	No. 782	OF	AUGUST 27, 1924
NEW JERSEY BOARD OF PUBLIC UTILITY COMMISSIONERS	AUTHORITY		OF	APRIL 21, 1938
NEW YORK PUBLIC SERVICE COMMISSION	AUTHORITY	Rule 10 (j)	OF	CIRCULAR NO. 104
OHIO PUBLIC UTILITIES COMMISSION	SPECIAL PERMISSION	10498	OF	MARCH 18, 1951
PENNSYLVANIA PUBLIC UTILITY COMMISSION	SPECIAL PERMISSION	No. 20200	OF	MAY 20, 1941
UTAH PUBLIC SERVICE COMMISSION	SPECIAL PERMISSION	No. 5507	OF	MARCH 20, 1951
VIRGINIA STATE CORPORATION COMMISSION	SPECIAL PERMISSION	File 1082-	OF	JUNE 2, 1943
WISCONSIN PUBLIC SERVICE COMMISSION	APPROVAL	No. S. B. 949	OF	APRIL 27, 1937

ISSUED BY  
M. A. ZENOBIA, Agent.  
424 West 33rd Street  
NEW YORK (1) N. Y.

# Sources: NMRA, cont,

**NMRA Special Interest Groups ,about 50,  
including:**

- **Layout Design SIG**
- **Railroad Operations Industries SIG**
- **Railway Signaling Technical and Historical Society SIG**
- **Railroad Prototype Modelers SIG**

# Sources: Libraries

## Libraries

- **Local Libraries in area of interest:**
- **Historical information on RR, industries, and structures**
- **Historical preservation information including photos**

# Sources: Libraries, cont.

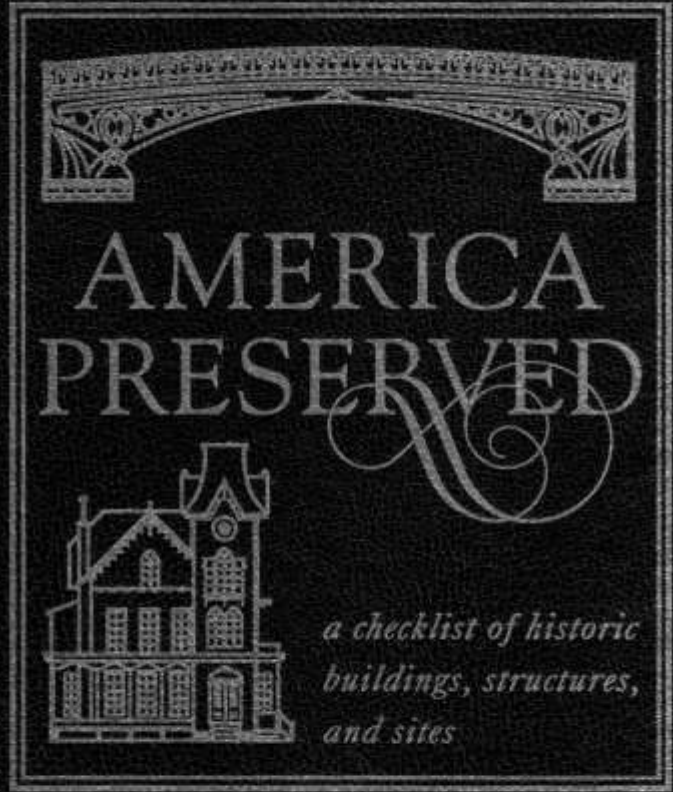
## **Railroad Historical Societies in areas of interest:**

- **Special collections relating to railroad or notable industries**
- **Knowledgeable People**
- **Photo archives**

# Sources: Libraries, cont.

## **Library of Congress:**

- **Extensive holdings**
- **Books on industries**
- **Interlibrary loan**
- **Historic American Building Survey/Historic American Engineering Record**
- **Internet access for much of the information**





# Library of Congress Digital Memory Site

- [Advertising](#)
- [African American History](#)
- [Architecture, Landscape](#)
- [Cities, Towns](#)
- [Culture, Folklife](#)
- [Environment, Conservation](#)
- [Government, Law](#)
- [Immigration, American Expansion](#)
- [Literature](#)
- [Maps](#)
- [Native American History](#)
- [Performing Arts, Music](#)
- [Presidents](#)
- [Religion](#)
- [Sports, Recreation](#)
- [Technology, Industry](#)
- [War, Military](#)
- [Women's History](#)

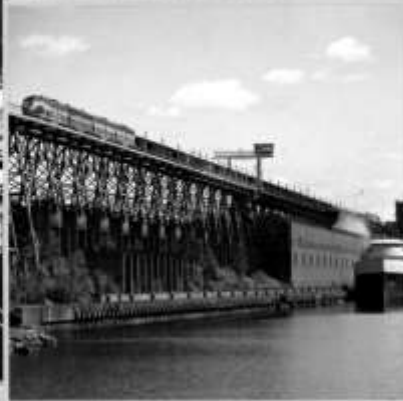
# Sources: Books

## Books

- **Model RR magazine publishers**
- **Many companies that sell books of RR interest. Most advertise in the model RR mags.**
- **Used Book Sellers**
- **EBAY**

**Model  
Railroader**  
DOORS

THE MODEL RAILROADER'S GUIDE TO  
**INDUSTRIES 2**  
ALONG THE TRACKS



**JEFF WILSON**

# Equipment of the BOSTON AND MAINE

## Volume 2: DIESEL CAB UNITS



by  
Robert A. Liljestrand  
&  
David R. Sweetland

# RAILWAY MILK CARS

## VOLUME 2



ROBERT A. LILJESTRAND

AND

JOHN NEHRICH

# Sources: Companies

## Companies

- **Write a letter to the company – what do you have to lose? Gain?**
- **Some companies helpful, some not**
- **Most companies have more information than they realize, and donate it to some historical society or library when they need to get rid of it - find out where it is.**

# Sources: Uncle Sam

## Uncle Sam

- **Everything Uncle has is available to the public**
- **Uncle REGULATES almost every industry in the nation (OSHA, EPA, FTA, FDA, etc.)**
- **Therefore Uncle collects everything on industries, including drawings, process analyses, transportation patterns, etc.**

# Sources: Uncle Sam, cont.

- **Not quite so helpful pre- mid 60's and earlier**
- **Many docs located in libraries local to the regulated facility**
- **National Archives -- for nominal copying fee**



# Sources: Model RR Clubs

## Model Railroad Clubs

- **Club Libraries**
- **Club members**

# Sources: Conventions/Train Shows

## Conventions -- Train Shows

- **Historical Societies, Book sellers, photo sellers all there to sell “stuff”**
- **Dealers in ephemeral, such as track charts, time tables, rule books, etc**
- **Manufactures of models have developed expertise in certain areas, and share willingly, \$\$**

# Sources: Personal Visits

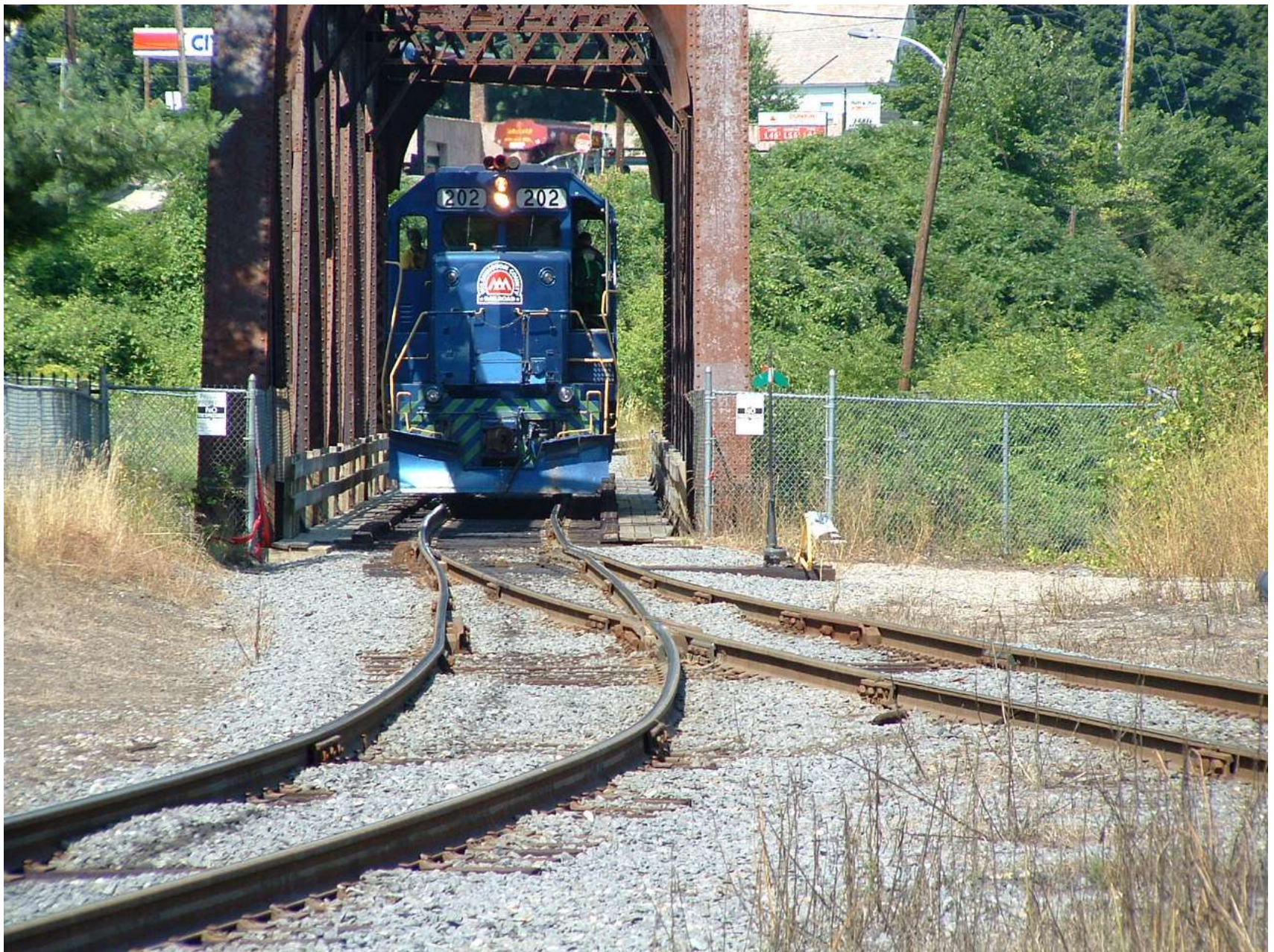
## Personal Visits

- **Gain sense of topography, rocks, soil color, type of trees/brush, colors (take lots of photos and samples)**
- **Identify actual buildings to include in your layout (take lots of photos and basic measurements)**

# Sources: Personal Visits cont.

- **Understand where track runs/ran and industries serviced**
- **Local library has historical information on town, industries, RR**
- **Fun time!**













3/10/2012

63





3/10/2012





3/10/2012





3/10/2012













3/10/2012

69



# Sources: Internet

## The Internet

- **You can get by without it, but you will miss large amounts of freely and instantly available information**
- **More and more, what you can get by snail mail you can get on the internet**
- **Sometimes it is a pain in the a..... but is still worth it**
- **I'll just scratch the surface today, it is too big to summarize very well**

# Sources: Internet cont.

## **Groups and Web sites**

- **Both too numerous to cover even in summary**
- **Will give examples of both I use, and information I've gained**

# Sources: Internet cont.

## Yahoo Groups:

- Birds of a feather will flock together
- Common interest, different locations and different resources available to each individual
- Prototype related groups
- Location specific groups
- Technology specific groups

# Sources: Internet cont.

## Yahoo

- **Yahoo has 360 groups listed under “model trains & railroads”**
- **Yahoo has 22 groups listed under “ATSF”**
- **Search to find your groups of interest. Ex. search on “Cajon” will find 159 groups, including the Cajon Group**
- **Search on “Digitrax” will find 29 groups, including the Digitrax group**

# Sources: Internet cont.

## Yahoo cont.:

- **General term search may turn up thousands of groups, narrow the search. “Citrus” had 505 groups, but “Citrus Modeling” had only 9, including the CitrusModeling group**



# Sources: Internet cont.

- **ATSF**
- **BM\_RR**
- **BNSF**
- **bnsf\_modelers**
- **CAJON**
- **casting**
- **citrusmodelers**
- **Digitrax**
- **Espee**
- **Espee\_forever**
- **HOTrains**
- **Industrial\_Modelers**
- **Idsig**
- **milktrains**
- **ModelAirbrush**
- **Ry-ops-industrialSig**
- **SCENERY**
- **Scratch\_building**
- **Small\_layout\_design**
- **STEEL**
- **SunshineRegion**
- **Traintools**
- **ScaleRailsSWFlorida**

# Sources: Internet cont.

## So What do you get from these groups?

















- **Access to 100s or 1000s of people with the same interest**
- **Some even know what their talking about – but some don't!**
- **Photos of what they did or saw**

# Sources: Internet cont.



















- **E-mails message lists with questions and answers**
- **Files with helpful and specific information**
- **References to Web Sites with even more help**
- **Photos of prototype, models**

[Add File](#) | [Create Text File](#) | [Create Folder](#)

## Files

Name	Size	Creator	Created
 <b>Alan LePain's 2D-3D Images</b> Various B&M CAD Created Railroad Items		<a href="#">a_lepain</a> 	May 22, 2008
 <b>Arch McDonnell Paintings</b> Images of Arch McDonnell Original Paintings		<a href="#">mojavespsf</a> 	Nov 16, 2006
 <b>B&amp;M - MEC Passenger Pool Equipment</b> Prototype and modeling information		<a href="#">coltrans2002</a> 	Jan 17, 2010
 <b>B&amp;M 4100</b> 4100 ABC Class Speed Lettering photos by D.Smith		<a href="#">c300z</a> 	Apr 15, 2005
 <b>B&amp;M Automatic Train Stop</b> ATS articles from Employees Magazine		<a href="#">wskeay</a> 	Oct 12, 2003
 <b>B&amp;M Enginehouse</b> Miscellaneous photos and information		<a href="#">wskeay</a> 	Apr 3, 2009
 <b>B&amp;M Ex-PRR mP54 Passenger Equipment</b> Modeling Info		<a href="#">coltrans2002</a> 	Sep 30, 2009
 <b>B&amp;M N-5 Caboose</b> Rail Works B&M N-5 Caboose		<a href="#">sarbuf</a> 	Jun 18, 2003

Files > Alan LePain's 2D-3D Images

Name	Size	Creator	Created
 <b>B&amp;M Arrow Herald_Time Table.gif</b> B&M Arrow Herald	29 KB	<a href="#">a_lepain</a> 	Feb 11, 2009
 <b>B&amp;M-Signal-102_US&amp;S_Style-B.pdf</b> B&M Signal 102 US&S Style-B	3224 KB	<a href="#">a_lepain</a> 	Jun 17, 2008
 <b>Cattle Brow.pdf</b> Standard B&M Cattle Brow Type-A	659 KB	<a href="#">a_lepain</a> 	May 23, 2008
 <b>Crossing Sign_Look Out For The Engine.pdf</b> Early Wood Railroad Crossing Sign	474 KB	<a href="#">a_lepain</a> 	May 23, 2008
 <b>Flag Stop Signal_Hastings.pdf</b> Flag Stop Signal-Hastings-Weston, MA.	2414 KB	<a href="#">a_lepain</a> 	May 29, 2008
 <b>Font for B&amp;M Station Signs.pdf</b> B&M Station Sign Font	53 KB	<a href="#">a_lepain</a> 	Mar 29, 2010
 <b>Freight House-Wayland MA.pdf</b> 2D Drawings	373 KB	<a href="#">a_lepain</a> 	May 14, 2009
 <b>Index_B&amp;MRR Structures &amp; Track Appliances 1900-1906.xls</b> Index B&M Standard Plans 1900-1906	2821 KB	<a href="#">a_lepain</a> 	Feb 16, 2012
 <b>Index_B&amp;MRR Structures &amp; Track Appliances 1930-1960.xls</b> Index B&M Standard Plans 1930-1960	2899 KB	<a href="#">a_lepain</a> 	Feb 16, 2012

## Boston & Maine Railroad

### Cattle Brow Type-A

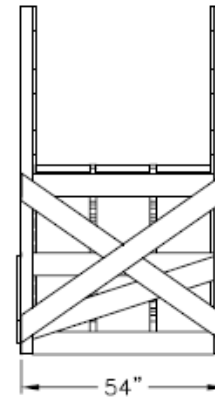
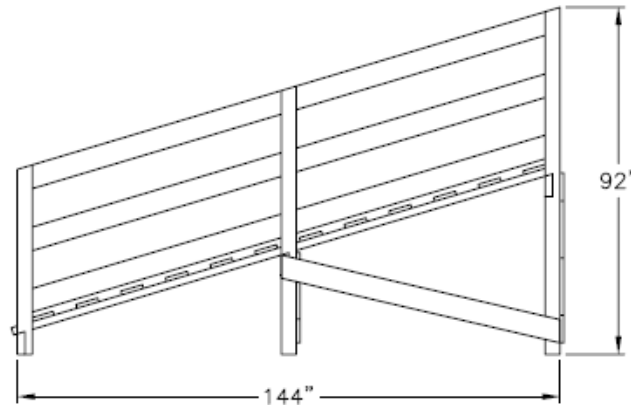
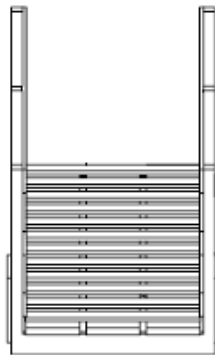
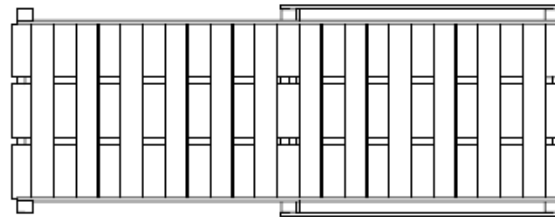
Image Created by Alan LePain  
C2008

At many freight houses a permanent or portable Cattle Brow were found. This version is based from a B&M standard plan. Its deluxe version was equipped with "iron rollers" to allow easy portability.



# Boston and Maine Railroad

## TYPE-A CATTLE BROW



Drawn by Alan LePain, Holden, MA  
2006



Files > BELLOWS FALLS - Sanborn Maps

Name	Size	Creator	Created
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+1.pdf</a>	327 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+11.pdf</a>	93 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+13.pdf</a>	176 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+14.pdf</a>	260 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+2.pdf</a>	183 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+3.pdf</a>	183 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+4.pdf</a>	218 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+5.pdf</a>	231 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010
 <a href="#">Bellows+Falls+Apr.+1927-Aug.+1949,+Sheet+8.pdf</a>	123 KB	<a href="#">dsq_skd</a> 	Feb 14, 2010

# Sources: Internet cont.

## Web Sites:

### Google:

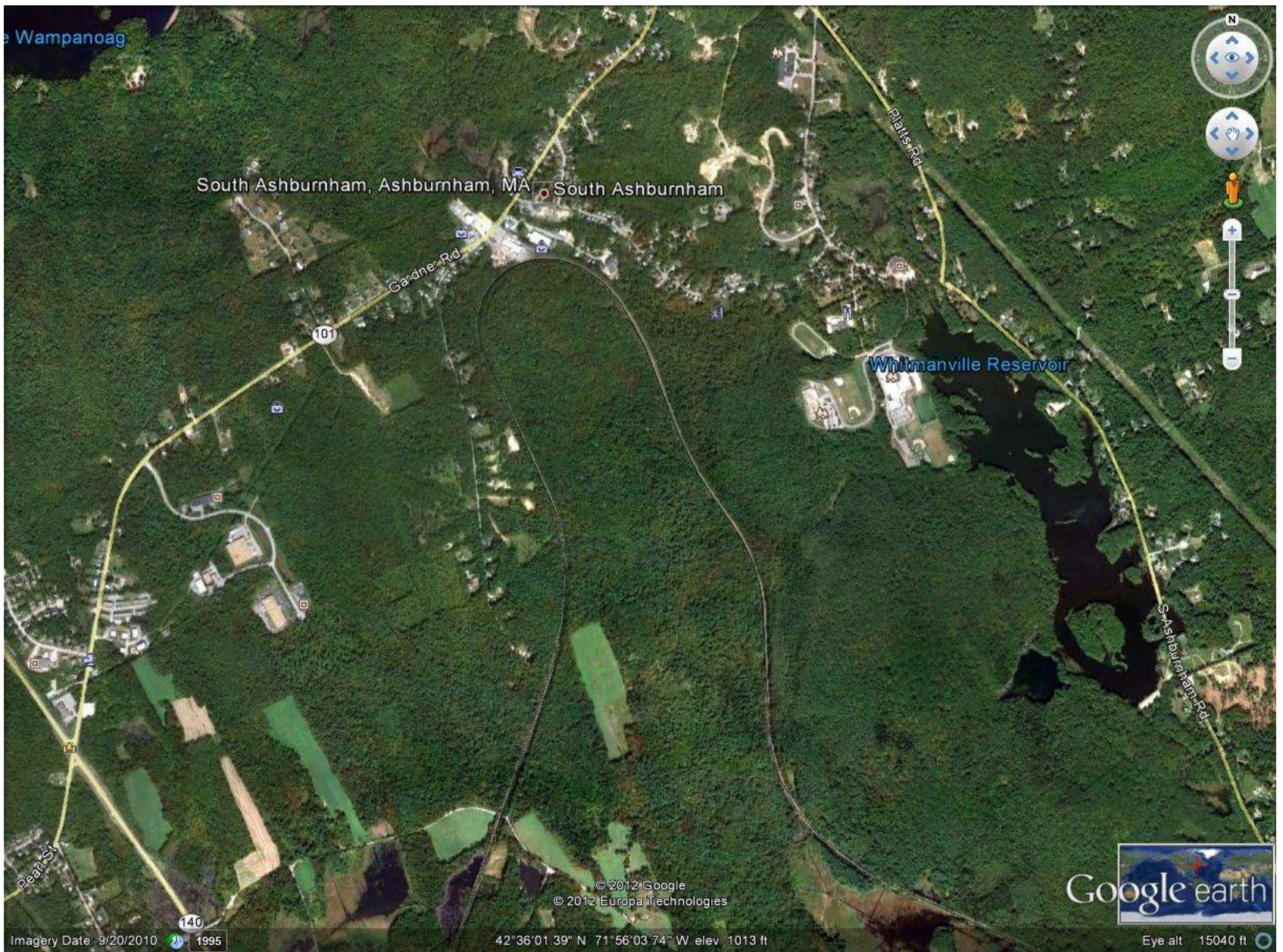
- **Do a Goggle search on “steel mill” and you will get 333,000 web sites that meet your search criteria**
- **Narrow you search looking for “Colorado Fuel & Iron” and you get 548 sites**
- **Some not helpful, duplication**
- **Some will have more than you expect**

# Sources: Internet cont.

## Google Earth:

- Search for aerial view of area you want to model





3/10/2012

# Sources: EBAY

- Search for “historic building plans” gets 175 returns.
- Narrow to HO Scale cuts that to 62
- Reviewing the list shows several historic structures you might want to build for your layout
- A set of mill plans I purchased this way for \$3.50





Mouse over image to zoom

Sell one like this

### HO- Full Size Printed Plans - STONY BROOK MILL

Item condition: --

Time left: 6d 09h (Mar 07, 2012 19:55:19 PST)

Quantity:  7 available

Price: US \$3.50

[Buy It Now](#)

[Add to cart](#)

[Add to Watch list](#)

Join **eBay Bucks** and earn **2%** back on this item. [See conditions](#)

**Bill Me Later** \$10 back on 1st purchase & 6 months to pay  
Subject to credit approval. [See terms](#)

Shipping: **\$0.75** Expedited Shipping [See discounts](#) | [See all details](#)

Delivery: Estimated between **Wed. Mar. 7** and **Thu. Mar. 8**

Returns: 7 days money back, buyer pays return shipping | [Read details](#)

Share: | [Add to Watch list](#)

#### Seller Info

**waaboos** ( 2998 ★ )   
99.1% Positive feedback

[Save this seller](#)

[See other items](#)

Visit store: [waaboos](#)

#### Other item info

Item number: 200710709958

Item location: St Paul, MN,  
United States

Ships to: United States

Payments: PayPal, Bill Me  
Later [See details](#)

History: 3 sold

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