



TGRS SPECIAL NEWS UPDATE

Meeting January 12th at the Sleepers

Where: Lou and Jan Sleeper 6636 East Villa Dorado Tucson 85715

Time: 1:00 PM

Phone Number: (520) 751-9628

Directions: Take Speedway going east or west to Dorado Country Club (between Kolb and Wilmont), turn into Dorado Country Club on Camino del Dorado. At first left turn onto Dorado Blvd. Second right onto Villa Dorado.

> Workshop at Nick Bucholtz Saturday, January 19th Time: 10:00 AM

Workshop will be on installing battery power in locomotives. Call Nick for directions to his home.

Address: 3401 West Blacksill Drive Tucson 85741

Phone: (520)744-4932

Welcome New Members: Lucas and Barbara Marcotte

5250 So. Campbell #50

Tucson, 85706 Phone: 294-7373

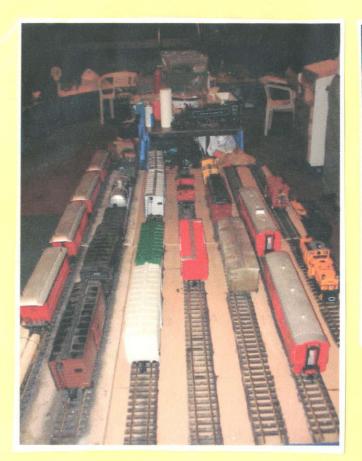
New e-mail address for Willis and Dottie Fagg
KM6MV@worldnet.ATT.net



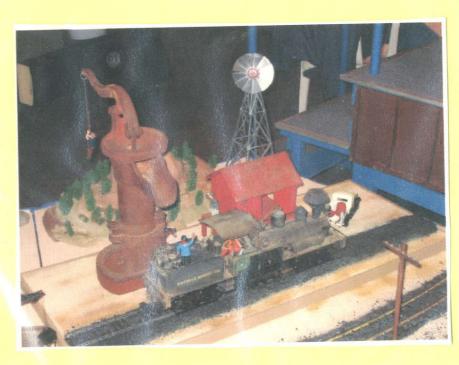


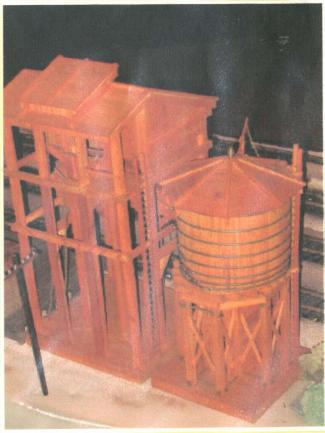


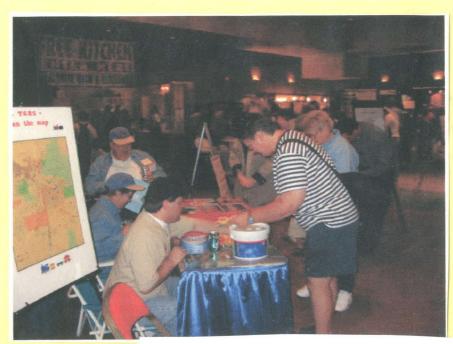
ARIZONA STATE HOME SHOW TUCSON CONVENTION CENTER JANUARY 4,5,6, 2002



















29TH BIANNUAL

TOY TRAIN SHOW

SPONSORED BY THE GADSDEN-PACIFIC DIVISION TOY TRAIN OPERATING MUSEUM, LTD.

MUSEUM'S WEBSITE: http://hometown.aol.com/ienglish/index.htm

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DOOR PRIZES

SATURDAY JANUARY 19, 2002 9:00AM TO 3:00PM

(Seller Table Setup: 7:00 AM - 9:00AM)

ADMISSION \$2.00

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SPECIAL ROOM RATES (\$38+ TAX) AVAILABLE-CONTACT THE RODEWAY INN (520-622-7791)

SPECIAL SELLERS ONLY RAFFLE

SELLERS STILL SETUP AT 3 PM WILL PARTICIPATE IN A FREE DRAWING FOR THE FOLLOWING PRIZES

1st PRIZE: \$30 CASH 2nd PRIZE: LIONEL GPD-TTOM ORE CAR 3rd PRIZE: COFFEE MUG

8 FOOT TABLES PRE-PAID TABLE RESERVATIONS ARE REQUIRED

TABLE: \$15.00

FOR TABLE RESERVATIONS CALL BOB GRASSI AT (520) 797-1184 OR E-MAIL BOB AT trains1937@home. com

SEND TABLE RESERVATIONS CHECKS PAYABLE TO GPD-TTOM TO GADSDEN-PACIFIC DIVISION TOY TRAIN OPERATING MUSEUM, LTD. P.O. Box 85425Tucson, AZ 85754-5425

ATTN: TOY TRAIN SHOW COMMITTEE

FORMERLY IDENTIFIED AS THE COYOTE MEET

GADSDEN - PACIFIC DIVISION

ATING MUSEUM, LTD. TUCSON, ARIZONA 85705-2275 X 85425 TUCSON, AZ 85754-5425 ometown.aol.com/ienglish/index.htm

ALENDAR

	FEBRUARY							
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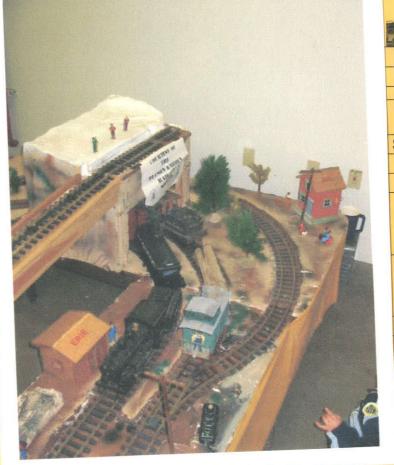
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FOUNDED 1980

INDICATES MUSEUM IS OPEN. SATURI

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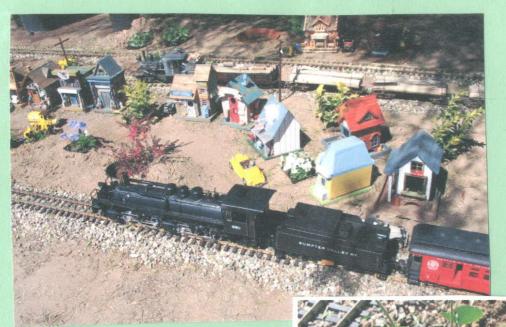
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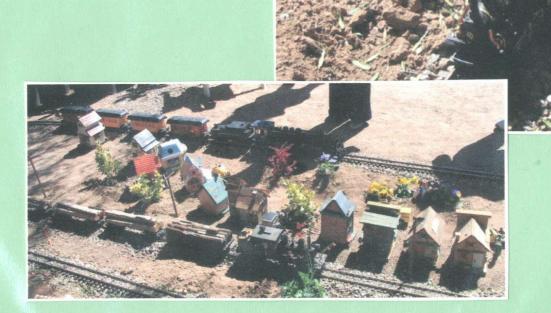
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Magic Garden Nursery Weekend

March 8, 9 & 10, 2002



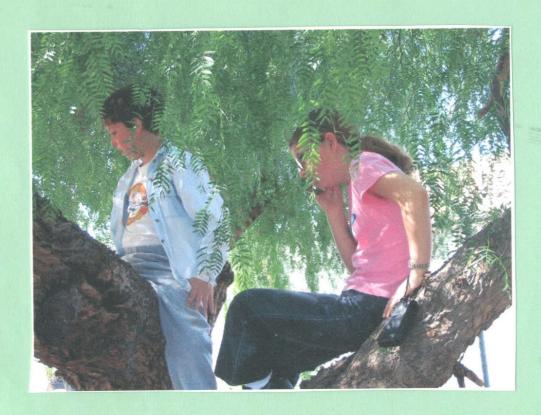




Magic Garden Nursery Weekend

March 8, 9 & 10, 2002

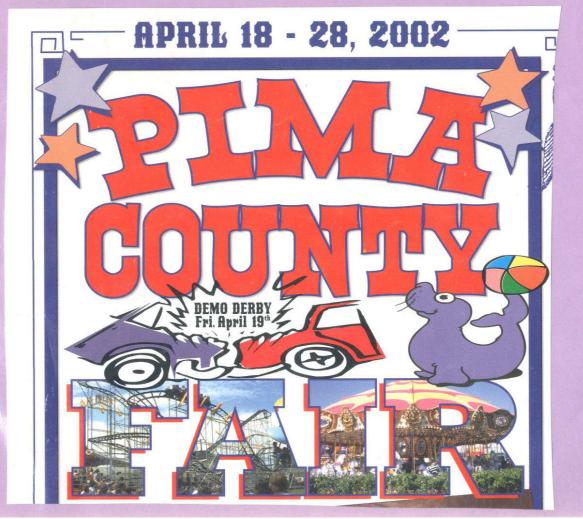












PIMA COUNTY FAIR WORK SIGN-UP SHEET

IF YOU HAVE NOT SIGNED UP AND INTEND TO PARTICIPATE, PLEASE GARY MARTIN AT 299-7428 OR MIKE DORGAN AT 529-2430

PARKING AND ENTRY PASSES WILL BE

YOUR HELP IS NEEDED

CURRENT LIST OF THOSE SIGNED TO WC 2002

SET UP WED. 4/17 10:AM -----

DUDA, DIRKSEN, SLEEPER, NORDIN, WRAY, BUCHHOLZ, UL STOESSER, DORGAN, SKINNER, MARTIN

SET UP THURS. 4/18 10:AM TO 6:PM

FITZNER, DIRKSEN, SLEEPER, WILLETS, OELSCHLAGER, FAGO SKINNER, MARTIN

RUN TRAINS THURS. 4/18 6:PM TO 10:PM

STOESSER, DUDA, DIRKSEN, SKINNER, MARTIN

FRI. 4/19 DAY LEADER - LEW SLEEPER 751-9628

11:AM TO 5:PM - SLEEPER, DIRKSEN, DORGAN, FAGG, MECHIGIAN, M.

5:PM TO 11:PM - ULMER, MILLER, DIRKSEN, MARTIN

SAT. 4/20 DAY LEADER - FRED WRAY 648-5649

11:AM TO 5:PM - MILLER, KELLY, GAST, SPRINGSTEAD

5:PM TO 11:PM - GAST, DIRKSEN, SKINNER

SUN. 4/21 DAY LEADER - JOE STOESSER 577-1210

11:AM TO 5:PM - WRAY, KELLY, DIRKSEN, DORGANS, FAGG, MARTIN

5:PM TO 10:PM - STOSSER, DIRKSEN, SKINNER, MARTIN

MON, 4/22 DAY LEADER - NICK BUCHHOLZ 744-4932

11:AM TO 5:PM - DIRKSEN, DORGAN, MARTIN, SPRINGSTEAD

5:PM TO 10:PM - FAGG, MARTIN

TUES. 4/23 DAY LEADER - STOESSER 577-1210 11:AM TO 5:PM - STOESSER, DUDA, DIRKSEN 5:PM TO 10:PM - DIRKSEN, SKINNER, MART

WED. 4/24 DAY LEADER - HERB HOFFMAN 82:

11:AM TO 5:PM - HOFFMAN, MERHAB, DORG 5:PM TO 10:PM - DIRKSEN, MARTIN

THURS. 4/25 DAY LEADER – JOE STOSSER 577 11:AM TO 5:PM - WILLETS, OELSCHLAGER,

5:PM TO 10:PM - STOESSER, DIRKSEN, SKI

FRI. 4/26 DAY LEADER - MIKE DORGAN 529-24 11:AM TO 5:PM - WRAY, KELLY, DORGANS,

5:PM TO 11:PM - MILLERS, DIRKSEN, DORG

SAT, 4/27 DAY LEADER – GARY MARTIN 299-7

11:AM TO 5:PM - MILLERS, DIRKSEN, MAR 5:PM TO 11:PM - WILLETS, OELSCHLAGE

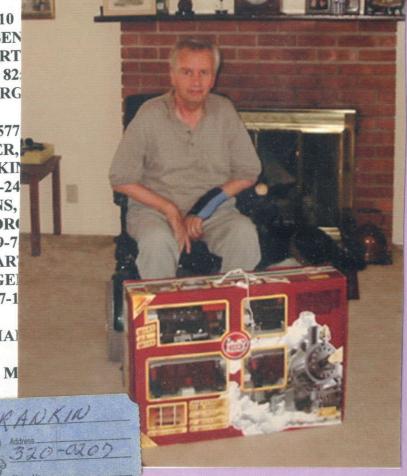
SUN. 4/28 DAY LEADER - JOE STOESSER 577-1

11:AM TO 5:PM - STOESSERS, DIRKSEN

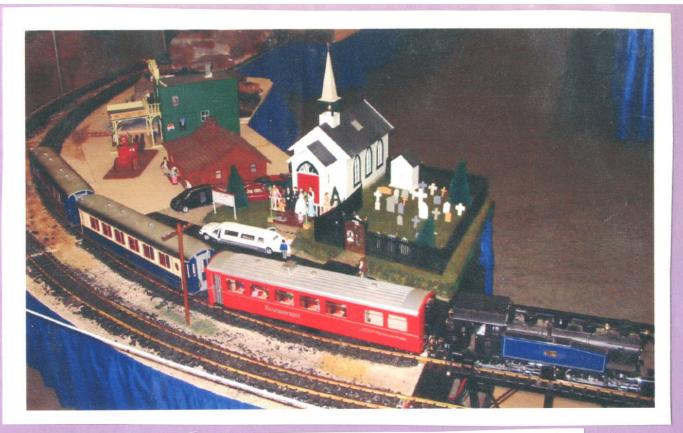
5:PM TO 9:PM - DORGANS, SKINNER, MAI

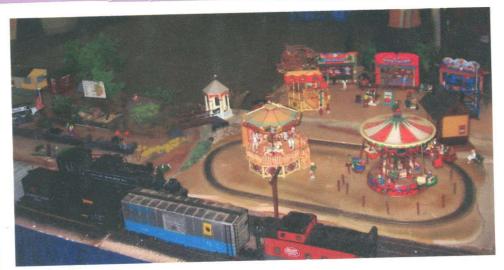
MON. 4/29 TEAR DOWN

10:AM - DORGANS, DIRKSEN, FITZNER, M

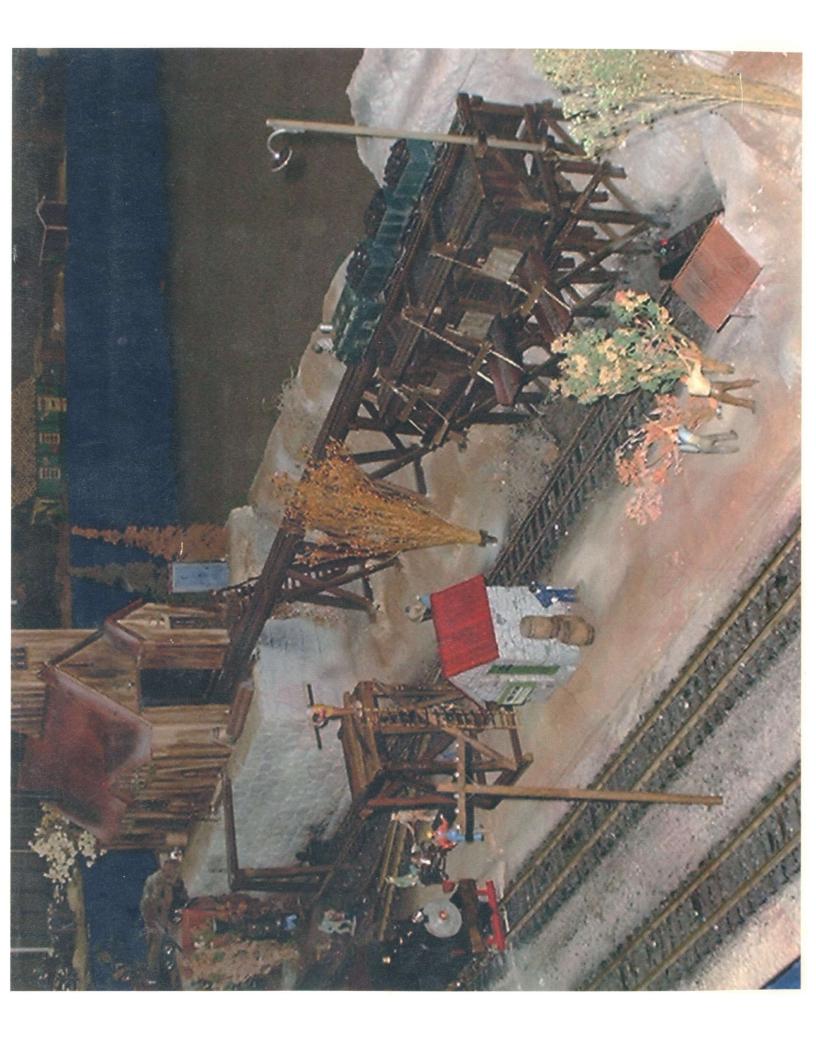


Phyllis Dirksen Tucson Garden Railway









The

Tucson Garden Railway Society

Welcomes

The Arizona Big Train Operators

to our

Spring Round-About

May 11, 2002

Gary Martin, President Mike Dorgan, Vice President Jane Dorgan, Secretary Fred Wray, Treasurer Nick C. Buchholz, Editor







To Our Guests:

People seem to be fascinated by trains. The "up close and personal" feeling of the power of a train as it goes by seems to draw young and old alike. In an earlier time, the railroad was the symbol of a nation that was growing and uniting at the same time. On a more intimate level, it was a symbol of personal freedom--that great wide world out there. For us garden railroaders, this fascination with railroading has been transformed into a hobby that has become an integral part of our lives.

The five garden railroads you will visit today show five different approaches. Each approach stands on its own merits.

Catalina and Southern Railroad

The C&S depicts one year of operation of a "captive" railroad, that is, one that is part of a larger corporate entity. Although a common carrier, that role is secondary to serving the interests of the parent corporation. In a period of economic adversity, a "make do" attitude dominates the scene.

2. The Gnome Valley Central Railroad

Its name says it all. A blend of reality and fanciful imagination, It is a railroad the piques the imagination and delights the senses.

The Boojum and Mesquite Railroad
 The B&MRR portrays the age of steam in railroading. Its character will
 continue to develop as Bill and Barbara progress further into the hobby.

The Cactus Corners Railroad

The Cactus Corners Railroad pictures a town that is changing because its reason for existence is declining in importance. A town that was once a center of intense economic activity is slowly fading into the background. Although the railroad is important to the town, the town is becoming less important to the railroad.

5. Sleepy Hollow Railroad

The Sleepy Hollow Railroad is a railroad that serves a variety of economic activities, which are mirrored in its traffic. Set in the period of dieselization of railroading, it shows the changes that are taking place during the era it represents.

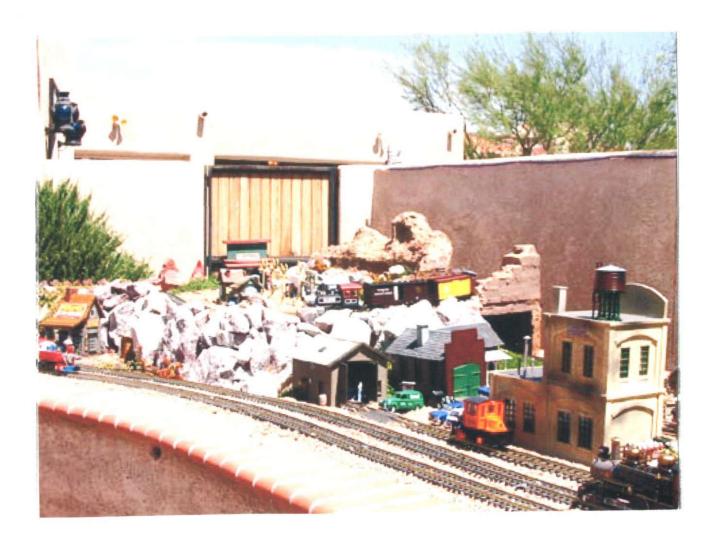


CATALINA AND SOUTHERN RAILROAD

Robert and Phyllis Dirksen

The year is 1932, and the C&S, a wholly owned narrow gauge subsidiary of Schweiz-Rubin, A.G., is struggling. Developed to serve the mines at Helvetia and Ruby, the line was later extended to Nogales, where it meets the standard gauge Ferrocarril de Sonora, and to Tucson, where it meets the standard gauge El Paso and Southwestern and the narrow gauge Tucson, Globe and Northern. The C&S provides weekday passenger (The Helvetia and Ruby Express) and freight service between Tucson and Nogales and operates a weekend excursion to the elegant Hotel Don Quixote on beautiful Lake Basura. This excursion is operated along with the TG&N and begins at Catalina and operates from November through March. The C&S also operates the Matlock, Grande Point and Western, in Manitoba, Canada.

(Phyllis suggested the C&S in 1996 to save a closet from being destroyed for an N gauge layout.) At present, the C&S has two battery powered LGB moguls, one BBT Bachmann 10 wheeler, two trolleys, an Aristo 0-4-0 powered by an LGB tender, Li'l Critter, and a Bachmann 0-4-0T field railroad loco, along with various leftover parts of projects, both successful and unsuccessful. The rolling stock is largely Bachmann with Kadee Couplers. We have four novelty units: A BBT Bachmann Christmas Train, an Eggliner, an LGB bubble car, and Thomas the Tank Engine. The sound systems are both Phoenix and Soundtraxx. The controllers are Aristocraft.



THE GNOME VALLEY CENTRAL

Dr. Roy and Mary Ann Eberbach

The Gnome Valley Central Railroad is a garden style fantasy railroad. In 1998 a small community of gnomes came from Germany and took over the space we had set aside for our garden railway For their entertainment, they built a garden railway which they share with us.

The Gnome Valley Central operates as a narrow-gauge railroad. It is track powered and is controlled largely with Aristocraft Train Engineer transmitters and receivers. Light for night time viewing is low voltage A.C., which is provided by simple transformers. The garden has a drip irrigation system. For security reasons, all rolling stock is stored inside on a six track holding yard. Phase 1 of the railway is almost complete. Phase 2 has working track and the landscaping is under way. Phase 3 will get under way later this summer.

Since Roy is disabled and requires an electric scooter for mobility, the railway is built 24" above the ground and has wide aisles. These allow him to move about the garden. The brick cap on top of the walls give him a place to sit while he works on the railway.

We share the building tasks. Roy, a member of the N.M.R.A and the Circus Model Builders, is responsible for the trains and most of the buildings and detail work. Mary Ann works with the plants and does some scratch building of structures.

Please come back again and see our railroad grow.



BOOJUM AND MESQUITE RAILROAD

Bill and Barbara Dillon

The Boojum and Mesquite Railroad, just three months old, is the outcome of our becoming interested in garden railroading in the early 1990's. We did a lot of reading on the subject and purchased some inexpensive Bachmann sets to experiment with. Just recently we have moved to a new home and have decided to build our railroad.

The Boojum and Mesquite replicates railroading in the early to mid 1900's, using battery power, Locolinc, LGB track with a minimum radius of 4.5 feet, Phoenix Sound, and kit structures. We decided to put the railroad at waist level for easy construction and maintenance.

At present the Boojum and Mesquite has a single loop over 600 feet long, with two towns, two sidings and a change of direction feature. There is a long straight run and two trestles built from scratch. The most striking feature is the waterfall, which the railroad crosses over on two bridges purchased from Eagle Wings Iron Craft. Motive power is provided by a Bachmann 10-wheeler and a Bachmann 2-6-0 Mogul. We have installed a drip system for the plants that we intend to install in the future. Also in the future will be buildings lit by solar power.

We welcome visitors and encourage garden railroaders to bring trains to run. We are working on a solution for those of you who have track-powered equipment. Our phone number is 520-818-2635. Call and arrange a visit.



CACTUS CORNERS RAILROAD

Bob and Jean Hoffman

The railroad at Cactus Corners is a small mining railroad. The town was once bustling with commerce, with a main street boasting several stores, a hotel, barbershop and a gas station. At the peak of its prosperity a trolley line was put in to run workers from town to the mines and the roundhouse. As the ore began to run out, the mines closed until there is only one remaining in operation.

The railroad itself is an elongated figure eight with about 350 feet of track that starts at the foot of a four-foot high mountain. As it winds around and down, it passes through the mountain by was of a tunnel that leads into Cactus Corners. If it happens to be the monthly diesel from the main line, it stops briefly at the station to pick up passengers. Going out of town, the tracks wind up and around and over a ten-foot trestle that brings it back to the upper level.



SLEEPY HOLLOW RAILROAD

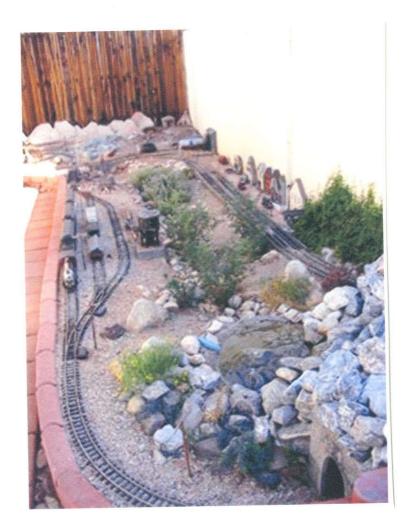
Dick Izen, General Manager, Engineer and Gandy Dancer

The Sleepy Hollow is a battery operated railroad, controlled with Locolinc and has about 350 feet of track. It is roughly in the shape of a bent figure eight running across the rear of the yard and down either side. The railroad features four sidings so that trains can pass and meet, a feature of remote control battery operation that I enjoy.

All engines are equipped with sound. Sleepy Hollow steam engines carry their batteries in a trail car. My Aristo Craft FA diesels have their batteries inside their car body. The steam engines and freight cars use body mounted Kadee couplers. The FA diesels and standard heavyweight passenger cars have modified Aristo Craft couplers. An adapter car allows the diesel engines to pull freight trains.

Engines and rolling stock are an eclectic mix of narrow gauge and standard gauge equipment that could have existed in the 40's and 50's. All my steam engines use common paint and lettering and are converted to oil. Tenders have tool boxes and back up lights, etc.. The rolling stock and various engines seem to mix well together, except when I am running short narrow gauge passenger trains next to the long heavyweight passenger cars.

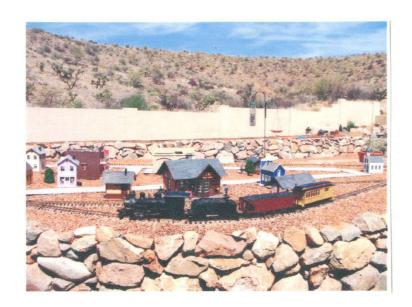
The scenery is pretty much natural with full size plants, some rock work and a number of buildings. Mixing scratch built and kit buildings gives more variety. In addition scratch building and kit bashing has allowed me to get some unique industries.



Dirksen

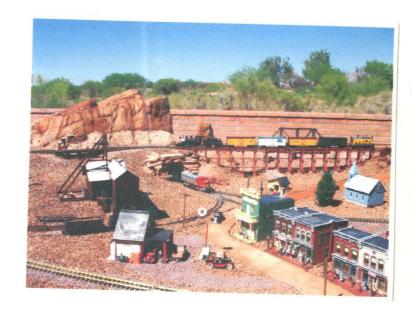
Eberbach





Dillon

Hoffman



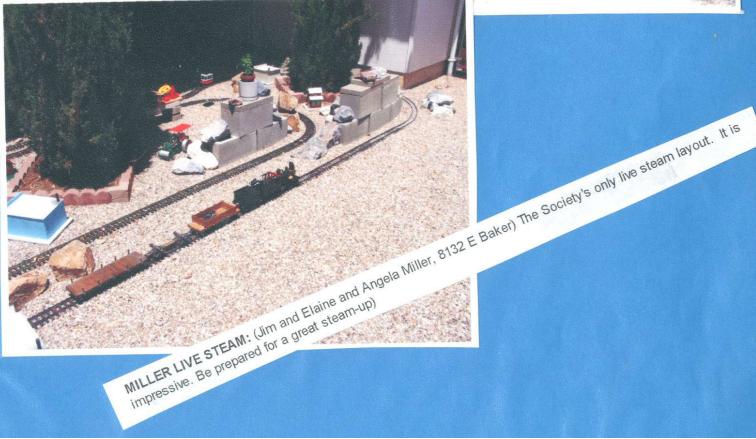


Izen

ROUND ABOUT 'MAY 2002

DOUBLE K RAILROAD: (Ken and Mary Karrels, 3930 N Smokey Topaz) In among the towering trees a wonderful variety of towns, trains, scenes. This railroad is in the backyard of the Double K Ranch Bed & Breakfast. A real caboose sits in the back of the lot with it's own track for visiting railfans.



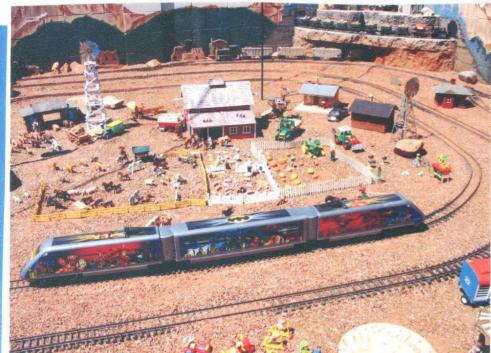


ROCK BOTTOM RAILWAY: (Barry & Gina Blackwell, 4042 E Cooper St.) Work began on the Rock Bottom Railway approximately 2 and a half years ago. (Rock Bottom pertains to both the terrain and the financial condition of the railway.) At present there are 250 feet of main line, 80 feet of trolley line, and about 40 feet of upper loop (One Track Mine). The upper loop has been running for 6 months. The main line was traversed for the first time on 04/19/02. The trolley line is still under construction. A waterfall (thanks to "tor"mentor, Gary Martin) and a stream are in operation. Scenic and most structures are but a dream at this point.

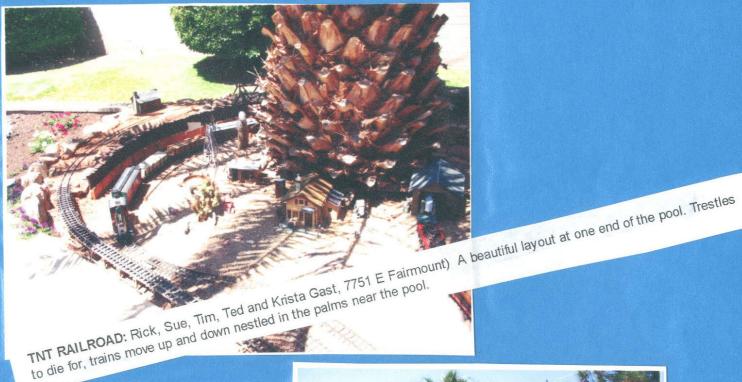


HART TO HART RAILROAD: (Loyal and Marty Hart, 7921 E Scarlett) A German theme layout at one end goes through a switching section to the Denver Rio Grande Western Railroad at the other end of the U-shape. Approximately 400 feet of track in five loops (including a raised town) traverse from the Alps to the Rockies. Included are castles, birdhouses in an apple orchard(painted on the wall), farm, mine and Indian settlement. This is an AWNUTS railroad (Always Whimsical, Not

Usually To Scale).



ROUND ABOUT MAY 2002



TNT RAILROAD: Rick, Sue, Tim, Ted and Krista Gast, 1/51 E Fairmol to die for, trains move up and down nestled in the palms near the pool.



THE J & P CACTUS CANYON RAILWAY: (Jerry & Pat Springstead, 5542 E. Kelso St.) Plans for our railraod started in December, 1998. It spans more than 325 feet of track which consists of an outer oval loop with a figure eight inner track.. It is a 1930's western layout. There is a desert community at the base of a mountain, a large waterfall and a canyon with a bridge, a trestle and an alpine lodge in pine trees. Cactus plants are used in the flatlands. The railroaad uses track power and a remote control by Aristocraft train engineer.

ROUND ABOUT MAY 2002

BILMAR RAILROAD: (Bill and MaryAnn Fabbri, 8901 E McClellan) Excellent use of small area. This railroad runs next to the pool along the wall. It contains a single loop with a mountain waterfall, switchyard and great engine house.

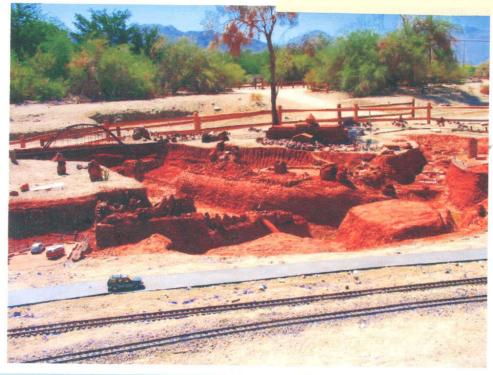


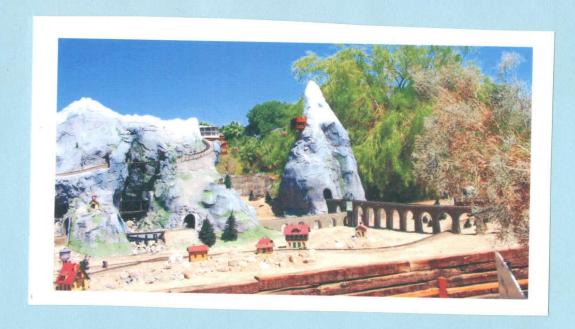
JUNE 2002

TGRS ABOARD THE QUEEN MARY

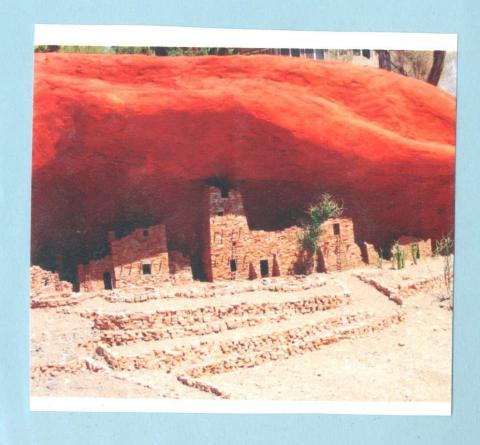


LIVING DESERT DISPLAY





LIVING DESERT DISPLAYS



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Free 3-days, 2-nights stay* at the Edgewater Hotel & Casino Laughlin Nevada to the first 700 people each day (over a \$200 value). (*must be 21 or older, 1 per family. First 700 attendees per day)

Take a trip down memory lane as you stroll thru the rows of American & British Classic Cars on display at the show on Saturday and Sunday.

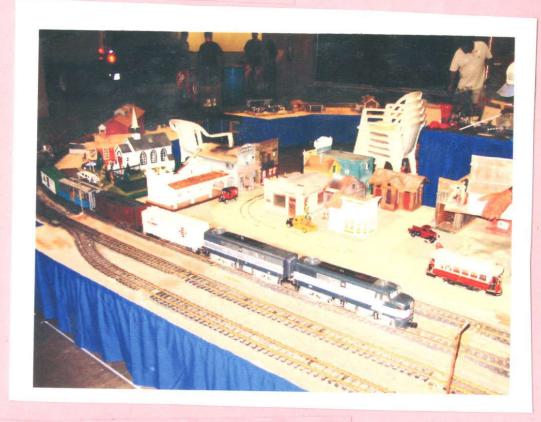
FREE ADMISSION for all members of the military, fire and police departments and their spouses (with ID)!

Adults: \$7 (includes 75¢ TCC user fee) Children 16 & under free





TGRS Town during assembly. Notice Gary moving building. We occasionally run a diesel.



Fitzner/Dirksen Amusement Park





Certificate of Appreciation

We wish to thank

TUCSON GARDEN RAILROAD SOCIETY

For participating in the Great American Train Show

> TUCSON, ARIZONA SEPTEMBER 7 & 8, 2002

Thank You

On behalf of the Great American Train Show staff we would like to thank you for participating this weekend. We hope the show was enjoyable for you and we look forward to seeing you again at a future show.

The GATS Staff, Jam Edm

Geof Bill Grove St.

Kathy Yeghegan AN

Jank Hiles

Callende Friday, Saftenther 6, 2002 Jet on track with rail hobbwis

Show at fairgrounds is best in the West

QUICK TAKE

SPECIAL TO THE ARIZONA DAILY STAR By Elena Acoba

■hile Amtrak's Sunse Limited faces perma lines will roll into Tucson this around a dozen other railroad world of toy trains and model nent derailment, weekend. Destination: The railroads

Local model railroading clubs and private hobbyists will bring their layouts to the Great American Train Show, which is making a stop at the Pima County Fairgrounds.

trains, model railroading equip ment, layout supplies and rail. around 50 dealers selling toy They will complement road collectibles.

a Tucson antique-train collector the West," said Thomas Franko, "It's the best train show in and seller.

twice-yearly show because it at tracts a large crowd that ranges from toddlers barely able to say "choo-choo" to elders who remi nisce about playing with some Franko. 59, said he likes the of the old trains like those he sets out at the event.

interest is in collecting, Richard use HO scale cars to re-create a trains. Dick is a member of the While Franko's railroading Southern Arizona Society of Model Engineers, which will ogging scene for its layout. Dick just likes to play with



for both days. The show is free for children age 11 or

nformation: Online, visit

vounger

www.greatamerican

trainshow.com

Tickets: \$7 buys admission

Where: Pima County Fair

grounds, 113000 S.

Houghton Road

Saturday and Sunday

When: 11 a.m. to 5 p.m rain Show

American

Thomas Franko, with his Texas Special (Lionel, 1950s) and Burlington Zephyr models (American Flyer, '308).

Dick, who's 58 and has been a years, said the show exposes the model railroader for around 30 "We get to meet the public and talk with them," he said. "We group and explain model rail. hobby to a general audience. can explain things about our roading in general."

Grand Canyon State Model Railmakes for a friendly social gathbring layouts include the Tucson Garden Railroad Society. Other groups who plan to road and Tucson N-Trak. It

asts, Dick said. "It's always a lot of fun to see people from around ering of model railroad enthusitown."

geared to attract all ages and in-Edmonds, who books show par ticipants from the organizers' Activities at the show are terest levels, said Tom Lombard, III., office.

Older kids can work some of the Tank Engine train set on tracks In the kids area, tykes can get and try operating a Thomas the rough with plastic toy trains

bigger layouts or play the video program that simulates operat ing a train from the engineer's point of view.

shops on aspects of building lay with Styrofoam, constructing mountain and animating a lay outs. Topics will include making a saguaro cactus, building Hobbyists can attend work-

history might find such memo-Collectors of railroad travel rabilia as old time tables and dining-car china and table-

cloths, Edmonds said.

gets bragging rights for as

vorite train layout at the Et cetera: Vote for your fashow. The winning club iong as people will listen.

tention. Franko has a display of plained. "They have a heater in them and then you run them. It really fascinates the kids. They want to know where the (nonex run various tools. "You put wa-Even train mechanics get atminiature steam engines that ter in (the engines)," he existent) remote control is."

Acoba is a former Arizona Daily & Free-lance writer Elena Star reporter

Beginning Garden Railroading A Supplement to Garden Railways Magazine



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Welcome!

elcome to the wonderful world of garden railroading! Though this fascinating hobby is over a century old, it has never been more popular than it is today, and nothing can match its appeal. It's a hobby that can involve the entire family. In the outdoor environment the railroad is changing with the seasons of the year, the weather, and even the time of day. You are faced with many of the same challenges as a full-size railroad, which is all part of the fun. A railroad built outdoors takes on a realism that nothing

Every issue of Garden Railways
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railroading from around the globe. You'll
find diverse articles about scratchbuilding and

else can match.

kitbashing trains and structures, in-scale gardening and miniature landscaping, garden railway construction in different parts of the country, reviews of new products, and much more. Beautiful color photos abound!

This hobby is so varied that you'll probably never find answers to all your questions in any one place. With Beginning Garden Railroading and your first issue of Garden Railways, you'll get a head start on running your own railroad outdoors. This booklet covers the basics, like selecting equipment, roadbed preparation, wiring, and basic landscaping. Garden Railways Magazine keeps you in touch with the latest developments in the hobby, provides the latest product information, and inspires you by showcasing great garden railroads from around the world.

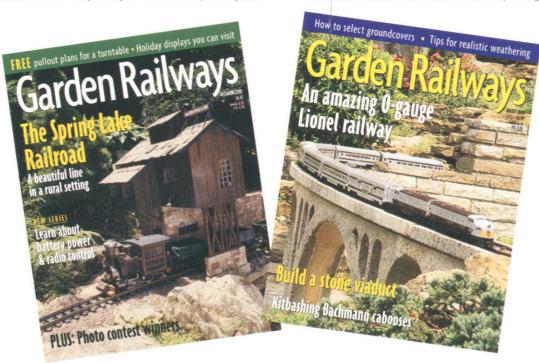
For another great source of help and information for beginners, I recommend the greatesthobby.com Web site. The site is sponsored by Model Trains, the World's Greatest Hobby, a promotional program to get new people involved in all aspects of the model railroad hobby. The program is supported by the Model Railroad Industry

Association and the Web site includes a directory of hobby shops, clubs and garden railroad societies who are ready to help beginners get started. If you don't have online access, call 877-426-5082.

I hope that the information in this booklet gets you started on this enjoyable, lifelong hobby.

- Marc Horovitz, Editor, Garden Railways Magazine

COVER: Natural-looking rock placement and plant material bring Dick Schafer's Galena Railway and Navigation Company to life. Photo by Barbara Horovitz.



Greatest

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Getting started

efore you start planning your railway, there are several things to consider. Examine the area your line will occupy to see if it's suitable. Here are some of the questions you should ask yourself.

Is your area more or less level? Levelness is not a mandatory factor in building an outdoor railroad, but the topography of your land can seriously affect the configuration of the railroad that is built in it. The steepness of the grade a train can negotiate is



STEVE SHIDENSTICKER

Aristo-Craft locomotives and rolling stock wind their way through Steve and Jan Seidensticker's Gopher Canyon Line. The track is handlaid, and locomotives have been converted to battery power and radio control.

limited, and if your yard is quite hilly it may need to be smoothed out some. This can be done through the use of additional earth made into embankments, retaining walls to prevent soil from washing away, or bridgework and trestlework to span larger or deeper gaps.

Is there an existing garden, or will the garden be designed along with the railway? The garden should be considered as part of the railroad. If one exists already, you must consider how best to integrate the railroad into the garden so as to show each to its best advantage, while creating the kind of environment and atmosphere for your trains that you desire.

If a new garden is to be made, it should be designed along with the railway. You should have a pretty clear picture in your mind as to what you want your line to be. If you are weak in the planting area, do some homework—it will pay off later. Visit local nurseries, read books, and talk to people. Your local chapter of the American Rock Garden Society may be a good place to start your research.

Are there things in the way—like clotheslines, houses, or swimming pools—that must be removed or worked around? If so, these things can influence the route of the track. A sidewalk can be crossed at ground level by cutting away the concrete, laying in the track, and replacing the concrete with new cement, being careful to allow for flangeways. A walkway can also be crossed above ground level with a lift-out or moveable bridge. However, this will be an obstruction to the path when you are operating.

Swimming pools can be built around, but they tend to be a visual distraction to the railroad. If the line is close to the pool, it may be difficult to photograph without getting the pool in the shot, too.

Structures can be built around, or through. Many garden railways begin indoors and then go outdoors through a hole in the wall. Some are routed through garden sheds or garages, where the trains are stored and serviced.

How elaborate will the line be? As a general rule in building a garden railroad, less is more. A traditional indoor railway may have many loops of track, dozens of engines, and hundreds of pieces of rolling stock. Outdoors, where we are dealing with the elements, a single-track mainline usually suffices, with sidings at stations, industries, and points of interest, and perhaps a branch line to an outlying terminal. A garden line will have a much different look than an indoor line. To get started, a single locomotive and three or four pieces of rolling stock—freight or passenger—are all you really need.

Is your area secure? Vandalism can be a problem in some areas, and it is generally felt that what is out of sight is out of mind. A high, opaque fence may be a good idea. On the other hand, if the neighborhood you live in is itself secure, fences may not be necessary. Several garden railways have been built in front yards, in full sight of the neighbors and all passersby, never with any problems. And, in fact, there have been instances of vandalism to garden lines that lived behind high fences.

Trains, and sometimes buildings and other structures, should be either brought indoors or be made secure in permanent garden structures (like very solid engine houses or train sheds) of their own. These will prevent them from being damaged by weather, or from wandering off when you aren't home. Security is not something to be paranoid about, but it should be considered. II

Choosing equipment

n choosing your first train, decide what your railroad is to be. Is it a line that will haul only freight? A line of this nature might start out with one or two small engines and maybe a half dozen freight cars of specific purpose. Or perhaps you prefer a passenger line that connects small towns. Again, a single engine (and maybe another for backup) and three or four coaches would be enough to get a railroad like this off the ground.

Is your line an old fashioned, narrow-gauge steam railway, or a modern, standard gauge, diesel-powered line? The space you have available may help to answer these questions. A small industrial line, with little engines, short cars, and tight curves, will fit better and look more at home in a limited space. A modern mainline road with A-B-A diesel lashups and trains of 20 or more cars will require broader curves and longer straight stretches to look right. Do your homework—read books and magazines on the subject before jumping in.

Track

There is a wide range of commercially available track today, and this is probably the best approach for the novice. When you have gained some experience, you might want to consider building your own track.

Commercial track is available in short pieces of set

lengths and curvatures, called sectional track, or in longer sections that you can bend and shorten to suit your own needs, called flex track. Sectional track is good for some applications, but it can be very limiting.

Sectional track is an excellent choice if your railway is not to be permanent, as it can be easily picked up and put down at will in the same configuration. The configuration can also be changed at a moment's notice. Several different radii of curved track are available, the tightest curve being 2' radius and the widest being 10'.

Straight sectional track comes in different lengths, nominally 1', 2', and 3' sections. These can be easily cut to length with a hacksaw if they are the wrong size.

For a permanent railway, though, you should consider using flex track. This can be bent to any desired curvature, and with it you can make your railway go where it should go, not where it may have to go with sectional track.

The term flex track is a little misleading. The rail used in flex track must be prebent to the proper configuration before it is slid into the plastic tie strips. With aluminum rail, this can often be accomplished by careful hand bending of the rail (wear leather gloves). The best curves can be attained by using a machine designed for the purpose, a rail bender. It is surprising how attainable smooth and accurate curves can be with a machine like this. II

A Climax locomotive with a heavy log train passes through the river valley on Jim Overland's Eidskogen Timber Company. Jim likes to create realistic scenes on this logging railway, including a log pond, logging camp, and engine yard.

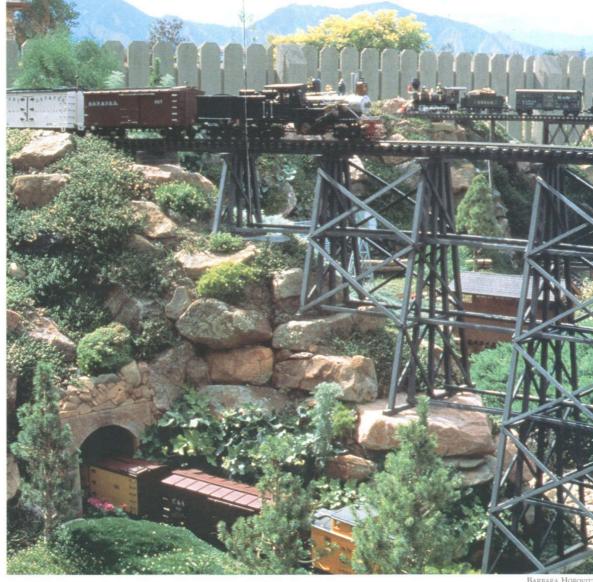


IM OVERLAND

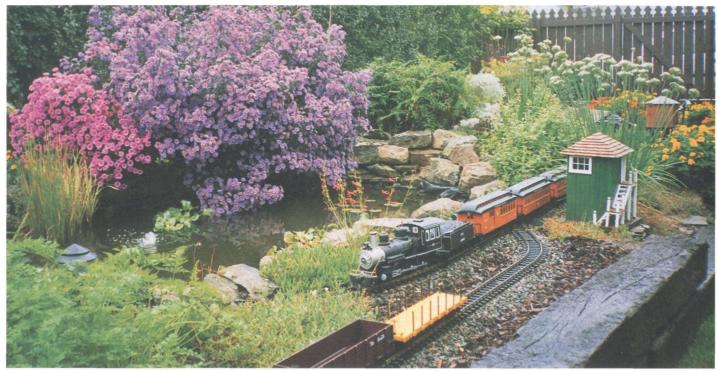
Planning the line

hat is the best minimum radius to use on your railroad? There is no best, really. The rule of thumb, when planning your line, is to use the widest minimum that will conveniently and aesthetically fit in your available space. Personally, I like a minimum of 6' (making a 12' circle), but there have been fine railroads built with sharper curves. On the other hand, long, standardgauge passenger trains running at speed just don't look right twisting around very tight curves, even though they may be capable of doing so. A minimum radius of 10' may be what's called for in this instance, and a really grand curve could be as wide as 15' or 20'.

However, very tight-radius track was sometimes used on prototype railroads, especially in the narrow gauges. Industrial railroads that ran small equipment and had to thread their lines between buildings or along ledges used extremely tight curves. Several manufacturers of industrial-railway equipment even offered full-size sectional track so that temporary railroads like those used in the construction of dams, for instance-could be easily put down, moved at will, and taken up when the job was complete and installed at the next job site. These railroads are interesting prototypes to model. Space is always a problem, so do what you must, but your railroad will be much more plausible if you tailor your rolling stock to your curves.



An Aster live-steam Climax crosses a scratchbuilt trestle on Joe and Annie Mellen's Mellen Patch railway. The locomotive crossing the trestle in the distance is an LGB Mogul.



C.J. HOUGHTALING

When planning grades, try not to make them steeper than about three percent (3" rise over 100" horizontal travel). Steep grades are unrealistic, and they will severely limit your train length. In prototype practice it is considered that train length is cut in half for every percentage of grade that must be negotiated. So, if your locomotive can pull an eight-car train on level track, it will only be able to manage four cars on a 1% grade, two cars on a 2% grade, one car on a 3% grade, and, on a 4% grade, another locomotive must be added to get that single car up.

On our model railroads, these same laws don't necessarily apply, and the powerful electric engines will pull unrealistically long trains up unrealistically steep inclines. For plausibility in operation, though, the above rule of thumb applies.

There are other factors that will affect your engine's ability to tote a train up a hill. It will be far easier if the entire grade is on straight track. Flange bind will considerably slow a train on curves, particularly tight ones. The condition of the bearings on your rolling stock is another factor to consider. Also, wheels of different materials and profiles have different rolling characteristics.

Roadbed

There are probably as many different methods of building roadbed in the garden as there are garden railroaders. There is no right or wrong way to do it, though some ways may be better than others, depending on where you live.

Perhaps the best general-purpose method for most applications is to build your railway in a prototypical manner. On a full-size railroad, the track actually floats in the ballast. By floating the track in the ballast, you

are allowing it to move, which it will do. The heat of the summer will cause the rails to expand and the cold of winter will make them contract. The freeze/thaw cycles may bring frost heave. Floating track will move as it needs to, but will be easy to realign when necessary (probably just once or twice a year, if that). The more established the railway becomes, the less it will change.

Dig a shallow trench—say 2" to 3" deep, and a little wider than your track—and fill it with ballast up to just below grade level, as shown in the drawing on the following page. There is no need to line the trench with plastic or anti-weed fabric. On the contrary, good drainage is important and an underlayment may impede it. Place your track on the ballast and level it up, making sure it's exactly where you want it. Backfill with more ballast to the tops of the ties, which should be at grade. Tamp the ballast into place for a better fit, using a piece of wood to push the ballast down between each tie. Then fill in again where necessary.

A word about ballast: Pea gravel is often used, but it is definitely not the best choice. Pea gravel is a type of river rock, and the stones are round, which means they want to roll. A heavy rain will take it right away, as will the lawn sprinkler.

What you need is a stone with sharp points and edges. These teeth will lock the ballast (and the track) into place. Many people use a product called "crusher fines," available from local rock yards. It is chipped granite, and it contains a fair amount of rock dust, which is an added advantage. After the track has been firmly set in the ballast, the roadbed can be sprinkled with water. The rock dust sets up like cement, but it is still easy to break apart for relocating or releveling

Lush foliage and color characterize Dan Gruzlewski's DT&Y. The switch tower is scratchbuilt. Bachmann motive power and rolling stock are used throughout the railway.

the track. A good alternative to crusher fines is chicken grit, available in several different sizes at grain and feed stores.

There are other methods of roadbed construction (see the drawing below). One is to elevate the track on a wooden baseboard. This can be attached to wooden posts sunk in the ground, but only in temperate climates. Frost heave in the colder climes will force the stakes out of the ground during the spring thaw, making your railroad look like a roller coaster. If you live in a cold place and want to try this idea, set the posts securely in concrete, or make sure they penetrate to below the frost line. Use a rot-resistant wood like redwood or cedar, or pressure-treated wood intended for use in decks and patios.

If you are planning never to move (or change your track plan) the railway can be set on a concrete foundation. The roadbed should be made in much the same way as the foundation of a house, with steel reinforcing rods to prevent it from cracking. It is essential that your form work be of the highest quality. Smooth curves and consistent grades are very important. The track can be screwed to wooden tiedowns embedded in the surface of the concrete. The surface of the concrete roadbed can be at grade and disguised with ballast, or it can be elevated slightly. If it is elevated, it will act as a dam, so be sure that you have cast-in culverts at the low points to allow for proper drainage.

Below are roadbed construction methods for garden railroads.

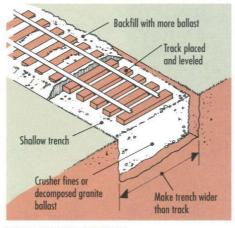
Electricity in the garden is not a problem. Trains generally run on 12-24V DC, which is quite safe, even in the rain. However, you'll need to keep your power pack dry and safe from the weather. The primary (the 110V AC input line to the power pack) is where the potential danger can occur, as well as inside the pack itself.

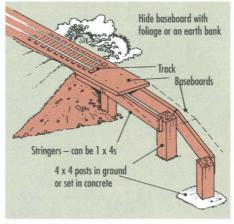
Electricity

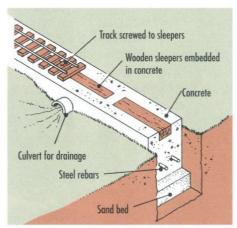
Perhaps the best system to use is a transformer that is kept inside a shelter, like the house or a garage. The secondary (the 12-24V DC line to the track) can be brought outside safely and led through a rheostat and reversing switch to the track. That way the power for the trains is inside all the time, while the control for the trains can be conveniently trackside.

On the other hand, if you want to use a more advanced momentum throttle, for instance, or a self-contained power pack, it can still be used outdoors with care. Some people just bring the power pack outside in good weather and hook it up the leads to the track when they want to run. On more complex railroads, where there are multiple lines, and a complete control panel is dictated, it can be built inside a shed, on the porch, or inside a specially built shelter just for the control panel.

A ground-fault circuit interrupter is always a good thing to use between your power pack and the house current. This device senses a short in the line and cuts off the power faster than it can electrocute you.





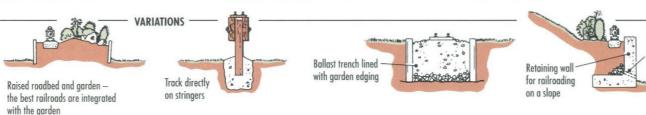


Drain

FLOAT THE TRACK IN BALLAST

WOODEN BASEBOARDS ON POSTS

CONCRETE ROADBED



It is inexpensive and simple to install, and it can be a lifesaver. Talk to the folks at your local hardware store about them.

Perhaps the biggest problem in running electricity through the rails is maintaining continuity across the joints as the rails expand and contract. One of the most effective ways of doing this is to solder jumper wires across the joints. Use a relatively heavy multistrand wire and make a small loop between the soldered ends. This allows the rails to move around a little as they expand and contract without putting stress on the soldered jumper.

A big soldering iron—one that really puts out a lot of heat—should be used. The idea is to heat up the rail, which is a considerable chunk of metal, quickly, get the joint soldered, and get out before you melt your plastic ties too badly. (One way of protecting the ties is to pack them with wet paper toweling or sand while soldering.) I know of a railroad that was about 350' long that had all rail joints soldered. A single lead powered the entire line with negligible voltage loss.

There are clamp-on rail joiners that aid in continuity, too. These either replace the supplied rail joiners or clamp over them, compressing them into the rail. These make the track more rigid, though, and if you have long straight sections of, say, aluminum rail, you could find your track buckling in the hot summer sun. A compromise of some jumped joints and some clamp-type joiners may be the answer here.

Electrically conductive grease (available at electronics-supply stores) can also be used in the joints. This will not only aid conductivity, but will help prevent water from entering the space between the joiner and the rail. This is ordinarily not a problem in warmer climates, but in colder places the water will get in there and freeze, expanding the rail joiner. I've seen heavy brass rail joiners fracture after only a single Colorado winter.

Trains run on the same voltage that garden lighting uses. The two systems can be successfully integrated, creating wonderful nightscapes. Garden lights should have their own power supplies, again kept well out of the weather.

Alternatives

If you find running electricity through the rails to be a big hassle, there are better ways to go. Battery powered, radio-controlled (R/C) trains are becoming very popular, and several companies offer systems that can





LARRY WEBI

be fitted to existing track-powered locomotives.

Some locomotives are big enough to carry all of the battery and R/C gear onboard the engine or in the tender. If the engine is not large enough to carry all of its own gear, then a special battery car might be the best way to go.

Another popular alternative is live steam-real steam locomotives to pull your trains. These burn either alcohol or butane gas, and are quite safe to operate in the garden. Operating a steam locomotive is an entirely different experience than running an electrically powered train. If you approach it expecting the same sort of performance and instantaneous availability that you get with an electric engine, you may be disappointed. Every steam locomotive, even ones of the same type made by the same maker, is different. It must be learned to get the best performance from it. Its characteristics and idiosyncrasies must be sorted out, just as with a fullsize steam locomotive, to know what it is capable of and what sort of train it will take over what sort of terrain. II

Above, a tunnel is under construction on Larry and Pam Webb's Little Vista Railway. The interior of the tunnel is constructed of concrete block. After the interior was finished, it was covered with dirt so only the portals remained visible, as shown in the lower photo.

Landscaping and scenery

a railroad-like atmosphere through the integration of the railroad and the garden. "Garden" does not mean just plantings (though these are of paramount importance), but all the additional landscaping that must be done to attain the desired goal. Much of what should be done is determined by your existing topography, how accessible you want your railroad to be (i.e., will it lie at grade or will it be elevated for convenience or to smooth out the hills?), and how much you intend to modify the area in which you are working.

t is the goal of the garden railroader to achieve

Placing rock and dirt

On Annie and Joe

Mellen's railway in

Colorado, a forest of

selectively pruned dwarf

Alberta spruce sits atop

covers. The locomotive

a carpet of ground-

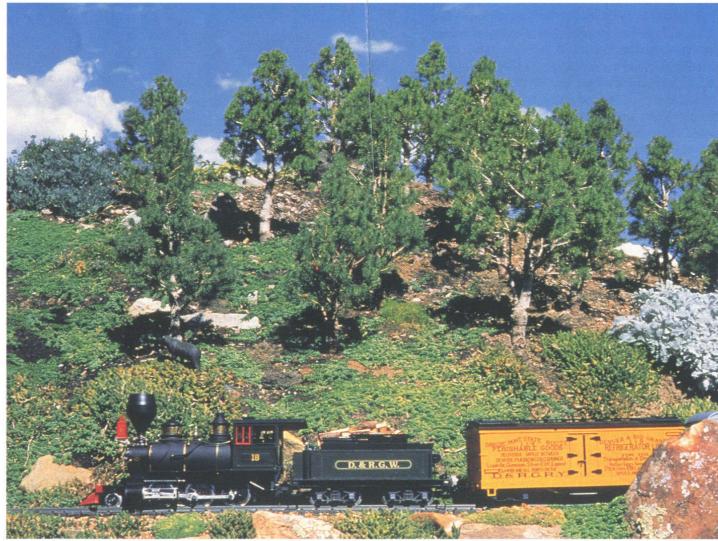
is LGB and operates

on track power.

Moving landscaping materials is hard work, but it usually only needs to be done once. Even if your line expands later, the major work will have been done at the beginning. If you intend to include a rock garden, or even a few stone outcroppings to suggest a mountainous region, these areas should be initially planned into the line and not added later as afterthoughts.

Rocks can be purchased from rock yards by the pound. The price will vary depending on how attractive or scarce the stone is. Choose your rocks carefully, and don't mix types. Generally, a natural outcropping will consist of only one type of stone. Select rocks of different sizes, too. Stones all the same size will be boring to work with if you are trying to create an interesting setting. A variety of sizes will add interest and challenge your design skills. Read some books on rock gardening that discuss rock placement. It isn't as easy as you might think.

Sometimes you can get dirt free for the hauling. The alternative, of course, is to buy it from a garden center. Dirt is sold by the "yard." A yard of dirt is actually a cubic yard, or 27 cubic feet. If you are filling a



MARC HOROVITZ

space between two retaining walls, it may be fairly easy to calculate how much dirt you need. On the other hand, if you are building hills and valleys, it might be quite difficult. The cost of the dirt will vary based on what's in it. High-grade potting soil or topsoil will probably be the most expensive, and dirt that is mostly sand or clay will be the cheapest. It is usually well worth the nominal charge to have the dirt delivered to your house by a dump truck.

Once your yard is filled with mountains of dirt and piles of rocks, then what? That's when the hard work begins. You must now start shifting the dirt and placing the rocks so that your grand plan is realized. Rock placement is perhaps the most difficult task, both physically and aesthetically. I've known people to reposition rocks weighing over a ton three, four, or more times, usually with the assistance of a crane, to make sure it is just right. After all, it may rest where you put it for centuries. Do it right the first time.

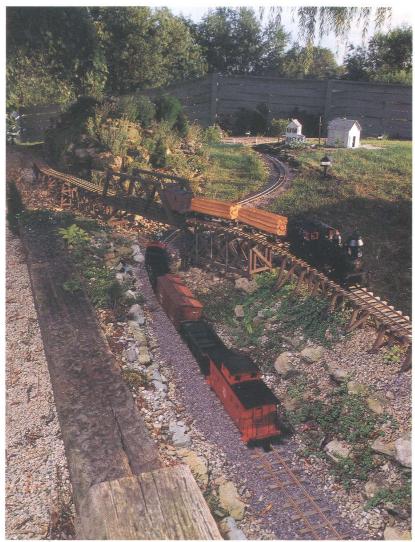
Dirt can be built up until it looks right or fulfills its function. Compared to rocks, it is easy to move around, so don't hesitate to change your mind. You can change it later, too, if you must. It has been suggested by experienced garden railroaders that you should get the dirt where you want it, then come back in a year and build the railway. During this year the dirt will have settled and compacted about as much as it's going to, and you'll have a steady and stable surface upon which to build your roadbed.

Of course, if you don't want to wait a year, there are things you can do to speed the process. Tamping it is a must, and your hardware store will have a special tool for this. It is nothing more than a heavy chunk of metal at the end of a pole. I suggest thoroughly tamping the route of the track and then give it a good watering. Do this about three times in as many days, and you should have a relatively stable track bed. There will always be some shifting, but this can usually be compensated for with the roadbed.

Mulch

Leaving great areas of exposed dirt lying around is just asking for trouble. If you are building an extensive line, I suggest that you do it in small steps, finishing off one area before going on to the next. If you build an entire set of foothills in your yard and then neglect them, the first thing you know they'll be covered with weeds. And they'll also be subject to erosion the first time it rains, leaving you with unplanned gullies and mud flats. The dirt needs to be covered.

Grass in the form of sod is a reasonable expedient,



JIM FORBES

even if you don't ultimately plan to have grass there. Another good plan is the use of mulch. This can be bark chips, small stones, wood chippings, or other things. The mulch will prevent light from reaching the ground, thus inhibiting the growth of weeds. Water will gently seep through and not erode the exposed earth.

The garden

Many beautiful and effective garden railways have been created by people who claim not to be gardeners. Gardening is a fascinating and important aspect of the hobby and railway gardening has become a subhobby in its own right. It is the garden that often ties the separate elements of the railroad together, and it draws entire families into garden railroading.

It is impossible in a booklet of this nature to educate you about the myriad aspects of the pastime of gardening, or even to give you a comprehensive list of plants that grow well in your area. Rock-garden plants go especially well with garden railways. Look into your local rock-garden society. Go to garden centers, read gardening magazines and books, and visit public and private gardens in your area.

When choosing plants for the railway, carefully

A Bachmann Shay takes a short train of logs over a scratchbuilt trestle on Terry and Carole Seese's Twin Lakes Lumber and Mining Railroad.

Landscaping and scenery

consider the function the plant must serve, and choose accordingly. Do you want something that imitates a lawn for the yards around the houses? Or how about a plant that can be planted in multiples in a line as an informal miniature hedge (or cut into a formal one)? Miniature trees can be used en mass to suggest a forest, or a single, fine specimen can be used to delineate an important point on the line. Set in rows by the track, miniature cypress can provide a formal gallery as an entry to the station area.

Plants in great diversity can be used to soften the rock garden and fill in the areas between the stones. If you choose your plants carefully, something will be in bloom during most of the growing season. If you have an area that needs filling quickly, you might consider a more "invasive" plant. More slow-growing plants can be added later, and the invasive ones removed.

The scale of the plants is something that should be seriously considered. How big will it grow if left on its own? You don't want to spend all of your free time trimming plants that have grown too large for their settings. Do your homework and choose your plants carefully.

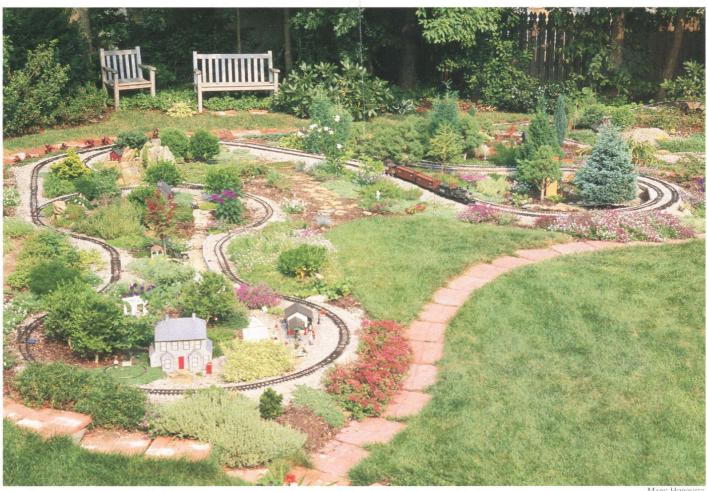
As a general rule, there are three zones of planting in the garden railway. Plants near the track, or near the more developed parts of your line, should be closely in scale with the trains, people, and buildings. As you get farther from the model setting, or in places where the trains pass through more rural areas, the plants can be larger, though you might want to continue using plants with smaller-scale components (leaves, branch structure, etc.). Farther back from this area, the plants can be as big as you like and, often times, the bigger the better, as these very large plants will provide a pleasant green backdrop to the garden railroad.

What we've covered in this booklet is a bare-bones introduction to the fascinating pastime of garden railroading. This form of model railroading is exceedingly gratifying and it can be pursued in more individual and creative ways than probably any other. Go outside and enjoy! II

was designed for watching. Plants have been carefully chosen for their slow growth, small characteristics, color, and adaptability.

Chuck & Anabeth

Dollins' C&A Railway



Garden railroad plants

hoosing plants for your garden railway should be just like choosing plants for your own garden. When planning any garden, you need to first consider your local soil conditions and climatic conditions in order to select the best-suited varieties for your particular setting. In railway gardening you should also consider one additional thing: scale. By using plants with small leaves, twigs, and blossoms you add to the realism of the garden as a whole.

Perennial groundcovers, creepers, and other low-growing plants

These are hardy plants that appear year after year and most offer a blooming period ranging from two weeks to several months.

Creeping veronicas (Veronica liwanensis, pectinata, and rosea) Tight, low-growing groundcovers with petite (usually blue), colorful flowers.

Thymes (*Thymus* spp.) Many selections available, from groundcovers to tiny shrublets. Most have fragrant leaves. **Sedums or stonecrops** (*Sedum* spp.) Succulent groundcovers for hot, dry places. Many have colorful blossoms.

Irish, Scotch moss (Sagina subulata, S.s. 'Aurea') These moisture-loving plants are often used to simulate lawns and meadow grass. These need some shade.

Corsican mint (Mentha requienti) Tiny, round, green leaves on a dense mat. It has a minty fragrance when crushed.

Snow-in-summer (*Cerastium tomentosum*) Vigorous grey-leaved groundcover with white blossoms.

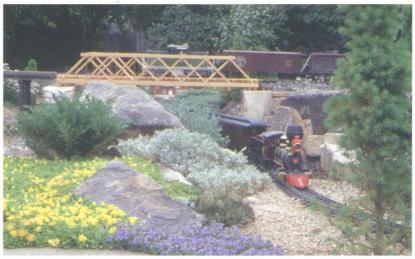
Miniature shrubs and trees

With just a little extra care, many of these tiny shrublets can be used to resemble miniature trees in a railway garden.

Miniature roses Numerous hybrids available. Select those with the tiniest leaves and flowers.

Miniature rhododendron (Rhododendron impeditum) Brilliant lavender flowers and tiny, evergreen leaves.

Compact lavender cotton (Santolina chamaecyparissus 'Nana') Finely textured silver-grey foliage with a shrub-like habit. Miniature boxwood (Buxus microphylla 'Kingsville Dwarf' or 'Morris Midget') Evergreen and extremely slow-growing. Miniature elm (Ulmus parvifolia 'Hokkaido' or 'Seiju') Tiny leaves and branches help create a scale tree.



BARBARA HOROVITZ

Dwarf and slow-growing conifers

Evergreens add much-needed color and texture to a garden railroad, especially during the winter months.

Dwarf Alberta spruce (*Picea glauca* 'Conica') Bright green conical shape, often used in groves to represent a miniature forest. Dwarf Japanese garden juniper (*Juniperus procumbens* 'Nana') Tight, ground-hugging evergreen mat.

Dwarf Irish juniper (*Juniperus communis* 'Compressa') Very narrow column of grey-green foliage.

Miniature birdsnest spruce (*Picea abies* 'Little Gem') Dark green miniature version of a birdsnest spruce.

Blue star juniper (Juniperus squamata 'Blue Star') Silvery blue needles on a compact grower.

Dwarf Hinoki cypress (Chamaecyparis obtusa 'Nana', 'Golden Sprite' and others) Extremely slow growing, bunlike plants.

Small-scale annuals

Annuals can't be beat for non-stop color. Choose those with fine-scale leaves and blossoms for best effect. Many may even re-seed!

Sweet alyssum (Lobularia maritima) Tiny, shining-white blossoms create solid color for months. Fresh, sweet fragance. Trailing lobelia (Lobelia erinus) Often used in hanging baskets, lobelia comes in an array of deep colors from blue to red to white. Moss rose (Portulaca) A carnival of colorful flowers. Succulent foliage makes moss rose perfect for hot, sunny places.

Dwarf marigolds (*Tagetes*) Many cultivars with yellow to orange flowers. Those with small flowers and delicate leaves are the best suited to the railway. II

Hardy groundcovers add living color to the garden railway.



MARC HOROVITZ

This tiny Chinese elm grows to 18 inches.



PAT HAYWARD

Annuals, such as the sweet alyssum, provide summer-long color and fragrance.

Scale and gauge¹

he tables printed here will answer what is perhaps the most-often asked question *Garden Railways* hears: What are the differences between the scales and gauges? Over the years, all these scales and gauges have evolved, and some (which we have not listed) have died out. Granted, it is confusing, but we have attempted to print the correct information here in the most understandable form possible.

It may take some study to learn it all. If you don't feel like taking the time, just use the information below as a reference. **II**

Proportions of a model to its prototype

Scale name	Proportion	Written scale
1½" scale ² %" scale 16mm scale 15mm scale LGB (G scale) ½" scale —— 1 scale (USA)	1:8 1:13.7 1:19 (approx) 1:20.3 1:22.5 1:24 1:29 1:32 1:48	1½" = 1'-0" %" = 1'-0" 16mm = 1'-0" 15mm = 1'-0" .533" = 1'-0" ½" = 1'-0" ½" or 10mm = 1'-0" 9 ½" or 7mm = 1'-0" 9

Track gauges commonly used in the garden

Gauge 3	2½" or 64mm °
Gauge 1 ⁴	1¾" or 45mm ³
(No name)	1½"10
Gauge 0	1¼" or 32mm °



Planning dimensions for G-scale (and related) trains on gauge-1 track

Minimum track radius: 2'-0"8

Minimum track spacing, measured from track centerlines: 6.5" (allow more on curves)

Clearance from center of track to structures: Straight track 2%" Curved track 3½"

Minimum height for tunnels: 81/8"

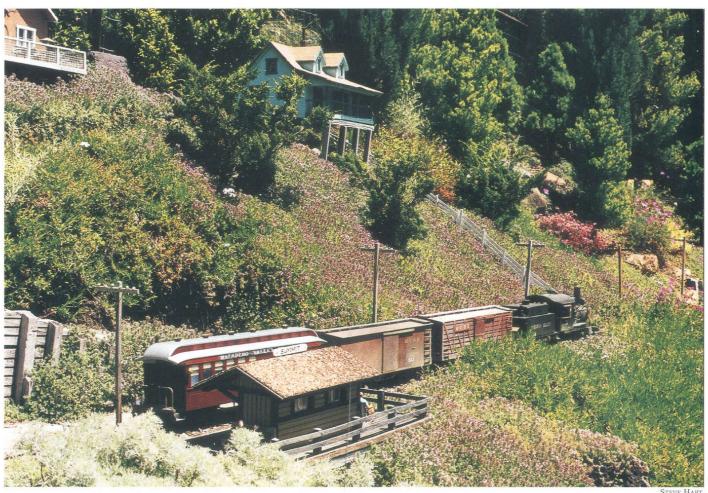
Track gauges as they relate to the different scales

Scale	Actual gauge	Represented gauge	Scaled gauge
1:8	Ga. 1	15" narrow	14"
1:13.7	Ga. 1	2' narrow	2'-0"
1:195	Ga. 0	2' narrow	2'-0"
1:20.3	Ga. 3 Ga. 1 ⁷ Ga. 0	Standard ⁶ 3' narrow 2' narrow	4'-2¾" 3'-0" 2'-1"
1:22.5	Ga. 3 Ga. 1 Ga. 0	Standard 3' narrow 2' narrow	4'-8¼" 3'-3½" 2'-4½"
1:24	Ga. 3 Ga. 1 Ga. 0	Standard 3' narrow 2' narrow	5'-0" 3'-6" 2'-6"
1:29	Ga. 1	Standard	4'-31/3"
1:32	Ga. 1 Ga. 0	Standard 3' narrow	4'-8" 3'-4"

Footnotes

- 1. Scale is simply the proportion of the model to the full-size item, and gauge is nothing more than the distance between the rails. The terms are sometimes incorrectly used interchangeably.
- 2. 1½" scale is commonly used for larger, ride-on trains. However, there are some modelers who are using this scale on gauge-1 track to represent 15"-gauge railways, such as those designed by Sir Arthur Heywood in Britain. We've not listed the larger gauges in this scale because they fall outside the scope of Garden Railways Magazine.
- There is a slight discrepancy between the metric measurements and the imperial. Today, gauge 1 is considered to be 45mm.
- 4. Gauge 1 is commonly and incorrectly called "G gauge" by some manufacturers and dealers. This is an unfortunate misnomer that merely adds to the confusion. G-scale trains run on gauge-1 track.
- 5. 1:19, or 16mm, scale evolved from gauge-0 (32mm) track. The idea was to choose an existing gauge and design models of 2' gauge trains around it, which is why this scale works out quite well. However, modeling to other gauges in this scale is almost nonexistent, so only gauge 0 has been included here.
- Standard gauge on full-size railroads is 4'-8\%". Anything less is considered narrow gauge.
 Anything more is considered wide or broad gauge.
- 7. There was a gauge 2 (2"), which was quite popular in the early part of the century, but has long since died.
- While 2' radius is commonly used, trains tend to look much better going around wider curves. A rule of thumb is to use the widest radius your space will allow. Six to ten feet is not unusual.
- 9. There is a slight discrepancy between the metric measurements and the imperial.
- 10. The correct gauge for accurate modeling of 3'-gauge trains in %" scale. Little is commercially available in this gauge.
- 11. The correct scale for accurate modeling of 3'-gauge trains on gauge-1 track.

Photo gallery



arden railroading is many things to many people. It cannot be stereotyped or categorized and, of course, there's no one right way of doing it. It is a diverse and abiding pastime of great depth. There are so many different aspects to it that you'll never lack for new areas of pursuit and there are no hard and fast rules to constrain you.

The difference between traditional indoor model railroading and garden railroading is the difference between realism and reality. Indoors, the goal is the imitation of reality. But when you are working outdoors, you face the same realities that full-size railroads face, including all types of weather, changing seasons, different climates, and a variety of materials with which to do your work.

The photo gallery on the following pages will give you a brief glimpse of what just a few people have achieved in the garden. We hope that these images will inspire you to try your own hand at this wonderfully diverse and satisfying pursuit. II



ABOVE: The train, departing Summit Station on Charles & Elizabeth Garbett's Matadero Valley Railroad, is dwarfed by the lush, green hillside. Scale houses overlook the track on this California railroad.

LEFT: Arthur pulls onto the big bridge running towards the strawberry fields at Belleville on Charley Lix's Excelsion Ditch Company Railway in Nevada. This railway is %" scale running on gauge-0 track.

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This locomotive, running on Leonard Wortley's unnamed, raised railroad in England, was scratchbuilt. It runs on battery power and is radio controlled. The signal box behind the locomotive was also scratchbuilt.

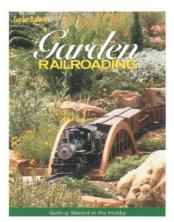


A Chicago & North
Western GP-9 pulls a
short train under the
waterfall while a switch
engine waits at the dead
end (lower right) on the
Coot Lake Railway in
Wisconsin, owned by
John Coughlin.

OHN COUGHLIN



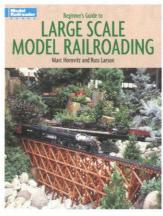
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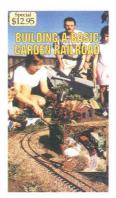
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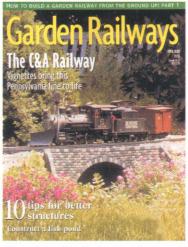
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Tom Speer scratchbuilt the coaling tower on his Hard Rock & Dynamite Railroad in Colorado after a prototype on the Rio Grand Southern. The 2-6-6-2 locomotive was kitbashed and is modeled after a Feather River logging locomotive.



On Andrew De Lucia's Sierra Nevada Northern Railroad in California, engine N° 18 waits on the bridge at sunset while track workers finish their job. The engine and water car are from LGB.

Andrew De Lucia

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23191 Mogul Steam Loco Available in: SF, UP, PRR, C&S, SRR, D&RGW

Starter Sets

70246 Zugspitz Rack Train Set 495 70457 Baltimore & Ohio F7 ABA 99 70634 Ice Cream Super Set 44 72302 European Pass. Starter Set Sound 215 72303 Penn. Western Passenger Starter Set 25 72402 Work Train Starter Set, Sound 215 72423 Santa Fe Freight Western Starter Set 255	.89 .89 .95
70457 Baltimore & Ohio F7 ABA 999 70634 Ice Cream Super Set 44 72302 European Pass. Starter Set Sound 215 72323 Penn. Western Passenger Starter Set 215 72402 Work Train Starter Set, Sound 215 72423 Santa Fe Freight Western Starter Set 253	.95
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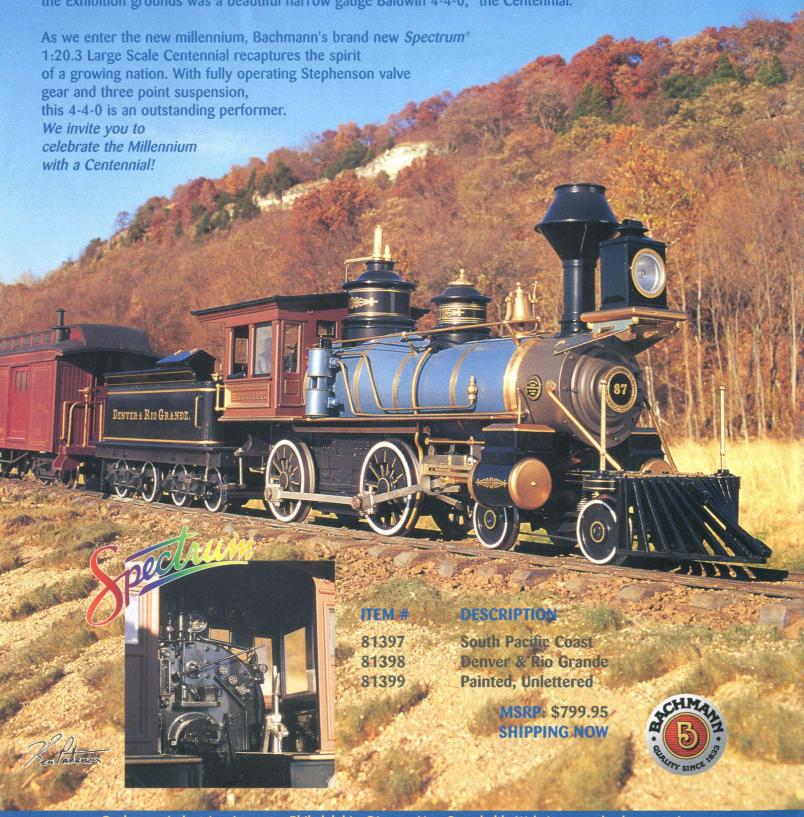
AC77-010 Ruby #1 AC77-012 Ruby 2 LIVE STEAM \$299.89 \$449.89

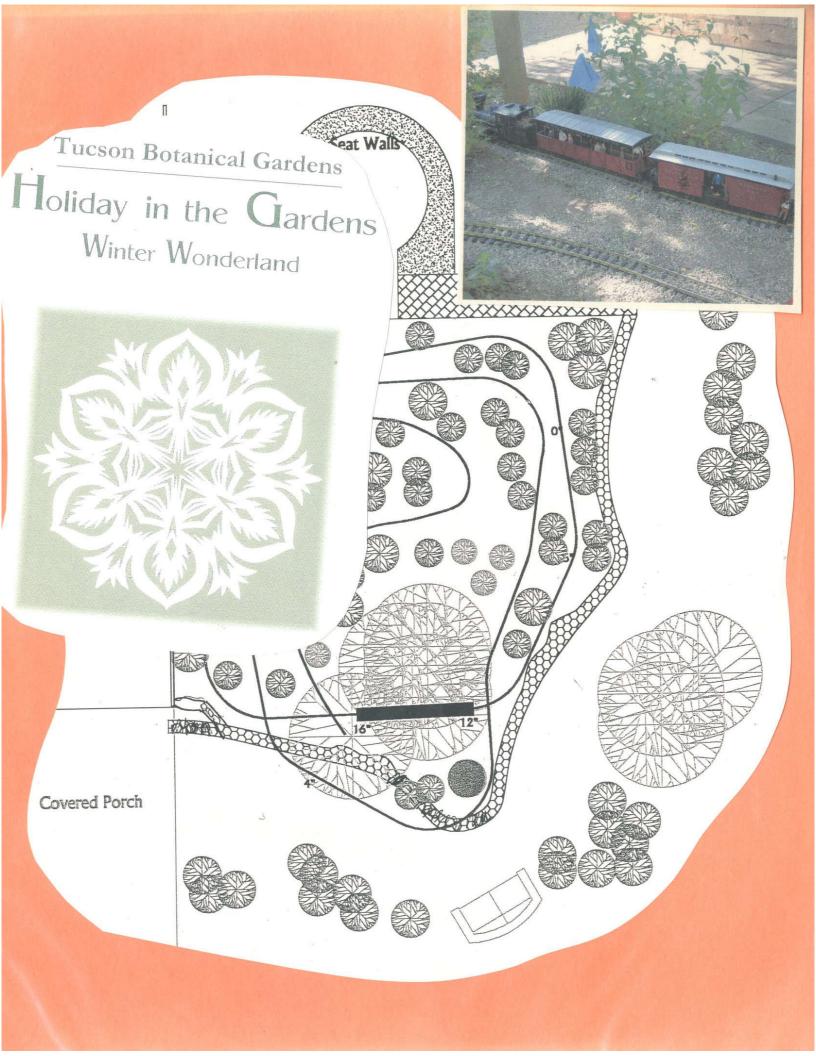
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10 AGW 10 ga. 105 strand copper outdoor wire pair .79ft

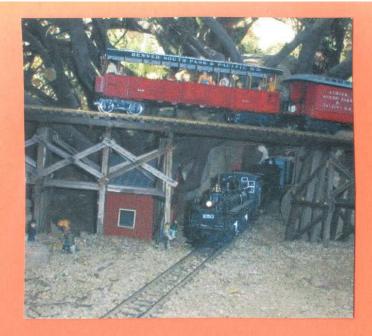
a Centennial for the Millennium

Marking the 100th Anniversary of our Nation's birth, the 1876 Centennial Exhibition was a showcase of American industry and culture. Among the locomotives providing transportation throughout the Exhibition grounds was a beautiful narrow gauge Baldwin 4-4-0, "the Centennial."



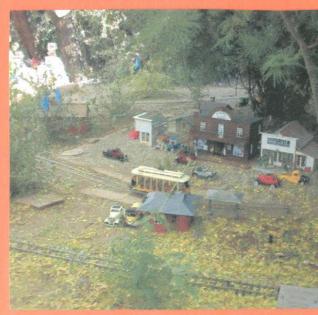












A railroad at Gardens? They think they can

The sound of a locomotive coming through a tunnel in a large jojoba bush is somewhat unusual at the Gardens. The annual readying of the Gardens for Luminaria Nights has included the chuffing of engines, whistles, and assorted sounds from a miniature town developing under the shrubbery. About 25 volunteers from the Tucson Garden Railway Society have been hauling materials, sculpting the track-bed, building trestles, and laying track for "Holiday on Rails" a miniature railway in the heart of Tucson Botanical Gardens.

The scale used for the garden railroad is called G-Gauge. It is roughly one-half-inch to a foot—an engine might fit in a shoebox. Garden railroads stand up to outdoor conditions and only the size of the property limits the space allowed for their design. A transformer, plugged into an ordinary outlet, supplies low-voltage power to the track—safe enough to touch.

With 300 feet of donated track, club members have built the railway like the real thing, utilizing rocks, dirt, and gravel available; and "blasting" through obstacles as needed. Tightly assembled rocks were

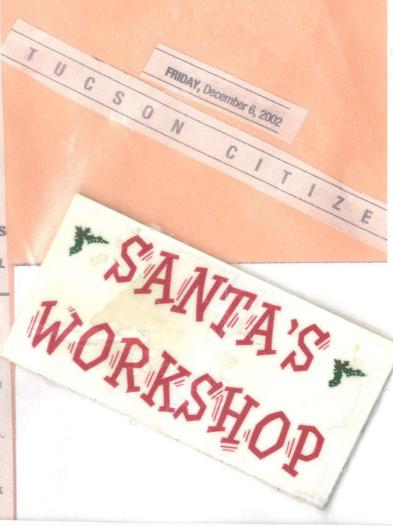


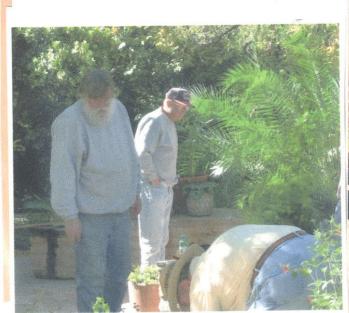
At the Gardens

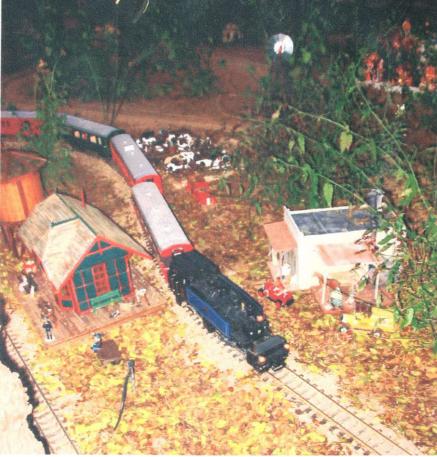
By CECILY GILL

used to build the waterfall, and reinforce steeper grades and approaches to tunnels and trestles. The track-bed was smoothed and sculpted before a layer of fine gravel was spread over it. Handmade redwood trestles were installed to carry trains over ravines. A finish layer of gravel was sealed with a glue/water mixture before the track was laid down. Now the railway is weatherproof – track components are made of rust-free materials.

The Society installe railway within an estab garden at TBG. Gary M current president, says going to do it at home, san open space and instafter the railway is in. I gests using plants that need a lot of pruning, d attract animals, and an









VAL CAÑEZ/Tucson Citizen

Little choo-choos will make a big impact at "Holiday on Rails" at Tucson Botanical Gardens.

growing. Some members are meticulous about scale and choose plants accordingly. Gary says he prunes small plants up into tree shapes, and severely prunes bigger plants, like pines, to keep them under two feet tall. Some members prefer desert or cactus gardens and some enjoy whimsy and don't worry about scale at all.

Garden railways are maintained just as real railways are. They suffer from washouts, animal damage, subsidence, and heat expansion. Aside from natural disasters, tracks and towns need careful maintenance.

Engines need regular oiling, too. At the Gardens each morning volunteers will clean the track, hook in the electronics, get the trains on the track, and take charge of switching.

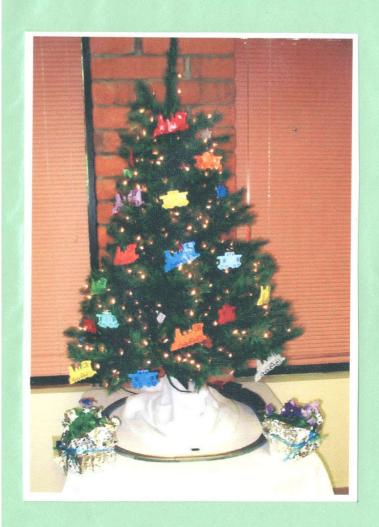
"Holiday on Rails" a Garden Railway will be running daily through Dec. 31, from 9 a.m. to 4:30 p.m. and can be viewed at your leisure with regular garden admission.

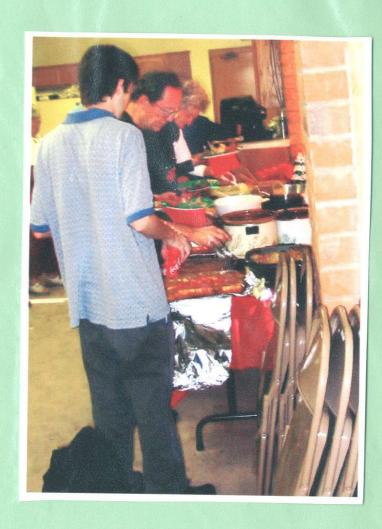
Tucson Botanical Gardens' Luminaria Nights, three evenings of candle-lit pathways, holiday musical groups, Santa, and the lighted Garden Railway will be Dec. 6, 7, 8 from 5:30 to 8 p.m. Admission to Luminaria Nights is \$5 Adults, \$3 TBG members, \$2 Children 3-11, free for children under 3 years.

The Tucson Garden Railway Society is a non-profit organization that educates about trains and garden railroads. It has 140 members (about 70 families). You can get information about the club by calling Gary Martin at 299-7428.

Cecily Gill is curator of the horticulture at Tucson Botanical Gardens, 2150 N. Alvernon Way. She has gardened there since 1986.

CHRISTMAS 2002



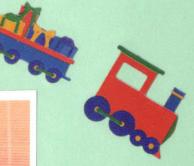










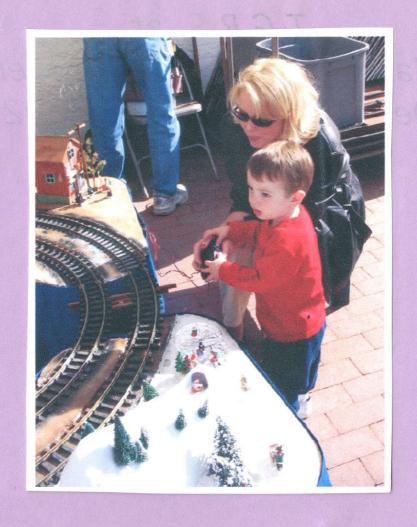




T.G.R.S. at St. Mark's Early Childhood Center December 16 & 17, 2002













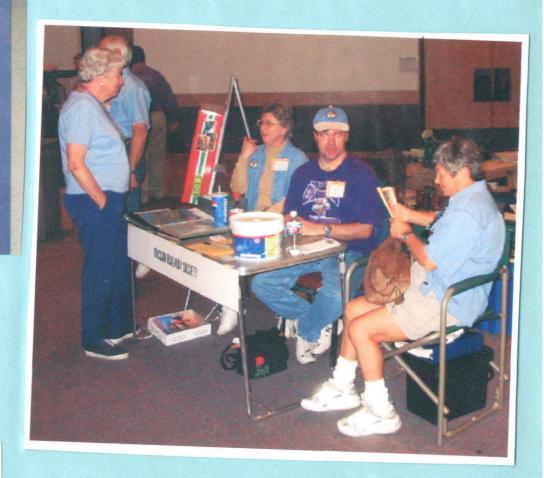




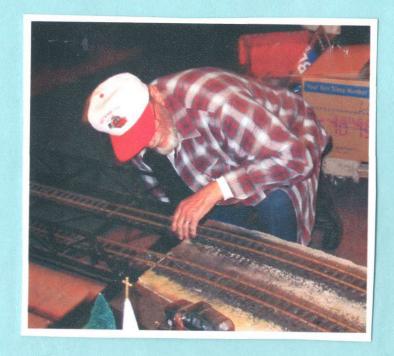
The Arizona State

Home Show

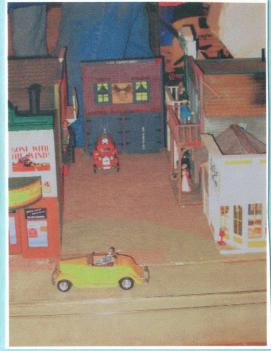
January 3 - 5 Tucson Conv. Center

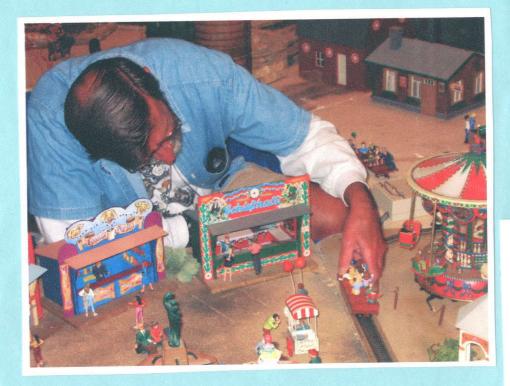






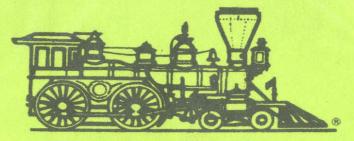








Kids Are FREE!



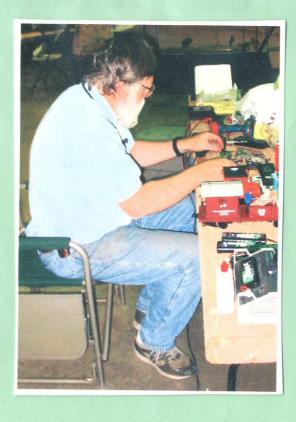
GREAT AMERICAN

- * Hundreds of tables of national train dealers from across America!
- * A Fantasy play area where all kids can be Engineers!
- * 8 operating model train layouts!
- * 18 Free modeling workshops over the weekend!
 * Admission only \$7, good for BOTH days! Kids under 12 are FREE!

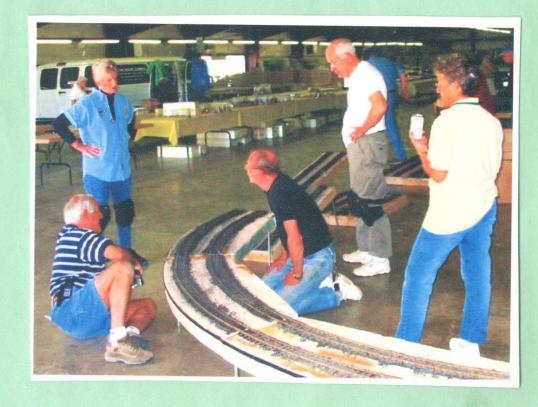
Saturday & Sunday, January 25 & 26, 2003 11:00am to 5:00pm, both days

Pima County Fairgrounds 11300 So Houghton Rd Tucson, AZ

Get a \$1 Off Coupon at www.gats.com!!







Toy trains on track this weekend

By Kevin P. Thé
ARIZONA DAILY STAR

Only once a year can you see more than 30,000 square feet of space filled with 10,000-plus toy trains in Tucson.

This weekend is that time.
The Great American Train
Show — which makes about
85 stops per year all over the
United States — will be in the
Old Pueblo from 11 a.m.-5 p.m.
Saturday and Sunday at the
Pima County Fairgrounds,
11300 S. Houghton Road (Interstate 10, Exit 275).

The show will feature a vast array of model trains for sale and display, with plenty of expansive, intricately decorated track layouts.

Billed as "America's Largest Traveling Train Show," the two-day event promises to be a delight for all ages and levels of knowledge. Whether you're a die-hard enthusiast or simply have a casual interest, the show will have something for you, said media liaison Kurt Jablonski.

"It's kind of a way of bringing model trains to everyone, he said. "There's stuff for beginners and the hard-core collectors."

Jablonski said a visitor to the show is just as likely to find a Lionel train more than 50 years old as a brand-new model of Harry Potter's Hogwarts Express. Depending on the age, quality and rarity of a model, you might pay from \$5 to \$10 for a simple boxcar to more than \$400 for a vintage engine.

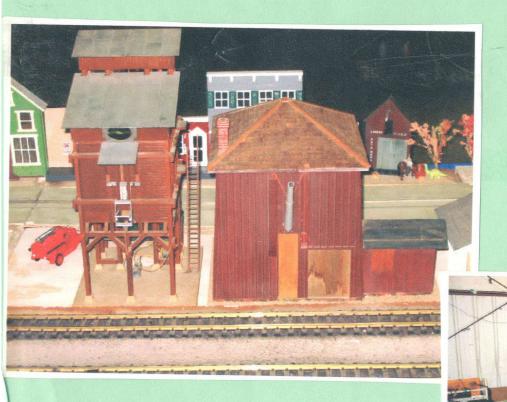
Kids with a little less dough in their wallets can still have a lot of fun checking out the working tracks and scenic displays, and they can even take turns operating a train set up specifically for them. Adults, meanwhile, can enjoy one of several informational workshops — geared to both the beginner and advanced collector — sign up for a door prize or get their own train appraised.

There also will be representatives of local clubs giving out information, and perhaps looking to recruit new members.

"A lot of people don't know, but there might be a (model train) club within 10 miles of their house," Jablonski said.

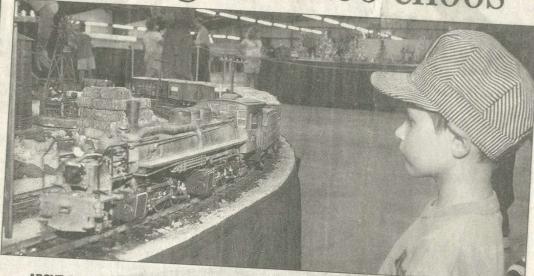
Cost to attend the show is \$7, and admission is good for both days. Children under 12 are admitted free with an adult.

For more information, call (702) 252-0334 or go online at www.gats.com, where you can also get a coupon good for \$1 off admission to the show.



dens 3003

Checking out choo-choos



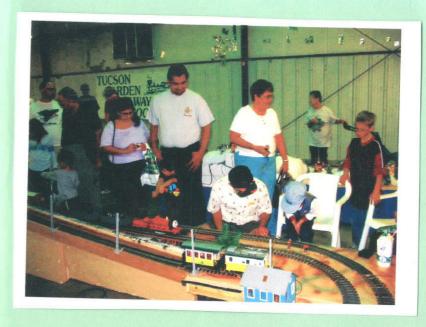
ABOVE: Logan Miller, 7, checks out a model steam engine at the Great American Train Show yesterday at the Pima County Fairgrounds. The two-day show, which ended yesterday, offered a chance for train enthusiasts to see, buy and sell the objects of their passion. RIGHT: Collector Lee Willetts gets a good look at an N-scale model engine.



Photos by XAVIER GALLEGOS/Tucson Citizen

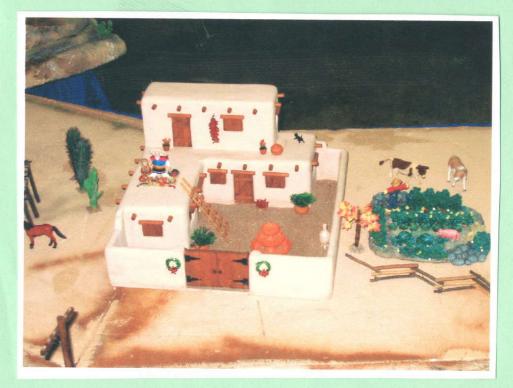












31ST BIANNUAL

TOY TRAIN SHOW

SPONSORED BY THE GADSDEN-PACIFIC DIVISION

JANUARY 2003













ALL ABOARD. Whether you're interested in toy trains or already have a passion for the hobby, check out this

swap meet for trains, trains, trains.

The meet is a great way to get acquainted with the hobby. Collectors and operators can look for that special find.

The Gadsden Pacific Division Toy Train Operating Museum is holding the biannual event at the Roadway Inn

event center, West Grant Road and I-10. The event is 9 a.m. to 3 p.m. Saturday. Tickets are \$2 for adults; children

under 13 are free. For more information, call 721-1085.

6636 N. Amahl Drive Tucson, AZ 85704 March 8, 2003

Mr. Nick Bucholz President Tucson Garden Railway Society 4625 E. Cerro De Aguila Tucson, AZ 85718

Dear Nick:

Please accept my belated thanks for setting up and running the Kiddie Module at the Gadsden Pacific Division Train Meet on January 18th. Family illness has placed my personal life in turmoil over the past two months and I have been derelict in expressing my appreciation for your continued support of our organization. Your layout continues to be the highlight of the exhibits we have at our train meets. We continue to be impressed and most appreciative of the dedication of your society's members in taking the time to assemble and man this very impressive module.

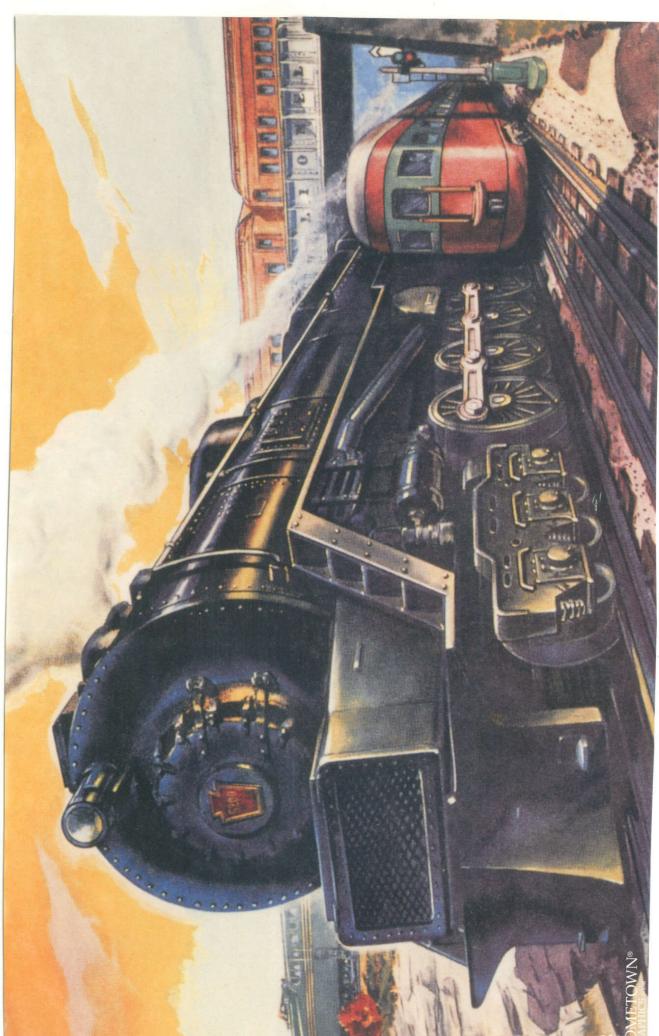
Thank you again for your participation in our meet. We would be most happy if your society would be able to honor us with a display at our meet in June of 2003.

Sincerely yours,

Bob Grassi

Bob Grassi Chairperson

GPD Train Meet Committee



4 × 3.7



Certificate of Appreciation

We wish to thank

TUCSON GARDEN RAILROAD SOCIETY

For participating in the Great American Train Show

> TUCSON, ARIZONA JANUARY 25 & 26, 2003

Thank You

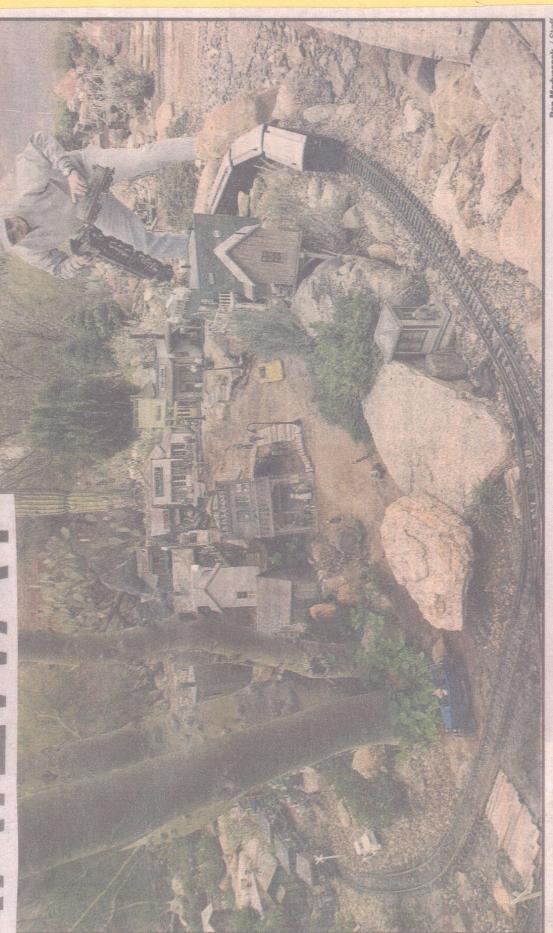
On behalf of the Great American Train Show staff we would like to thank you for participating this weekend. We hope the show was enjoyable for you and we look forward to seeing you again at a future show.

The GATS Staff,

Now Good Rathy Geography on for

A BLOOMING A BLOOMING

· ARIZONA DAILY STAR / Sunday, March 30, 2003



Ron Medvescek / Staff Gary Wartin, holding a model locomotive and tender, looks at a section of what he says is Tucson's largest garden railroad. It's behind his and his wife Peggy's home.

Garden tour to include vard's model trains

By Joan F. Barrett

SPECIAL TO THE ARIZONA DAILY STAR

azzling flowers, spectacular cacti, cooling water features and intriguing landscape designs appear on next weekend's annual Tucson Botanical Gardens Home Garden Tour.

But one of the circuit's five stops displays a more whimsical treat. Behind Gary and Peggy Martin's North Side home, ticket holders will see model (Ggauge) trains traveling past a miniature Western town, mining area and logging

About a quarter-mile of track contributes to the couple's 4,000square-foot oasis, which Gary says is Tucson's largest garden railroad. He and Peggy embraced the concept in 1994 after Gary wearied of the seasonal labor required to install and to dismantle railway displays by an indoor Christmas tree.

"I decided if I was going to work that hard, I wanted to leave it up,' said Gary, who laid the track around a palo verde tree at the bottom of the sloped yard. He kept making additions, using a 1/2-inch to 1-foot scale.

Garden greenery includes white, yellow and purple lantana, ju-

niper, white pine, native cacti and Mexican poppies. "If the animals eat it, then we don't plant it." Peggy noted about nearby wildlife, such as rabbits and iavelina.

The Martins have taken up what they call the fastest-growing railroad hobby in the country and belong, with at least 80 other families, to the Tucson Garden Railway Society. "The membership grows continuously," said Gary, a former president of the club.

During construction of his Eagle Mountain Railroad line, the 62-year-old retained the yard's naturally hilly terrain and narrow wash. Exquisitely detailed scenes appear about every five feet. Based on Gary's extensive research, the tableaux reflect slices of Arizona life between 1890 and the mid-1930s

For example, the garden's lowest level depicts Jerome in its heyday as a mining town. Figures at the train station include a man in a top hat with a trained

hear.

To the west, a hobo village holds four residents. The schoolyard has a swing and slides, as well as a man trying to capture a skunk.

On the east, a boy with a balloon trudges up a hill, pulling a wagon that holds a girl. The children head toward the town's center. where buildings include a Chinese laundry and a bakery that advertises "best buns anywhere."

To add to the authentic atmosphere, a voice within the Red House Saloon says, "Get the sheriff." An audio specialist in California supplied the battery-operated, custom-made sounds used throughout the garden.

Rosemary, trimmed to look like trees, ap-

pears on a higher level. Flatcars with stacked lumber look ready to be pulled away from an adjacent sawmill.

Dwarf Alberta spruce also contributes to this section, which has been designed to resemble the White Mountains. Behind the mill, a small lake features a female moose standing on a rock.

Four cabins, an outhouse and a main

If you go

- What: Tucson Botanical Gardens 17th annual Home Garden Tour; self-quided; five Tucson-area home gardens and admission
- Where: Tickets include a map and provide one admission to each garden during the weekend.
- When: 10 a.m.-4 p.m. April 5 and April 6
- Cost: \$12 for TBG members (up to four tickets); \$14 for others, advance purchase; \$16 tour day.
- . Tickets: TBG, 2150 N. Alvernon Way, Harlow Gardens, 5620 E. Pima St.: Mesquite Valley Growers, 8005 E. Speedway; B&B Cactus Farm, 11550 E. Speedway; Civano Nursery, 5301 S. Houghton Road; Rascon's Landscaping, 7974 N. Oracle Road; Rillito Nursery, 6303 N. La Cholla Blvd.
- Information: 626-5161



H2 · ARIZONA DAILY STAR / Sunday, March 30, 2003



Ron Medvescek / St

A miniature welder works as a blue light glows to simulate sparks.

RAILWAY

Tour to include garden with model trains

Continued from Page H1

lodge with a dining room make up the logging camp's residential section. Nearby, two men cut down a big tree.

Two fountains provide realistic waterfalls by the Emerald Mine. Radio control can quickly send a train with a load of gold ore whizzing through a tunnel.

Tracks end near the top of the garden, where cars with ballast and rails signify the work still ahead for earlier-era Chinese and Irish workers. Upbeat music spills from Big Bob's Saloon and Dance Hall.

The northeast corner features a train-maintenance area. Elements here include a repair shop, a fueling tower for oil-burning engines, a windmill, a water tank and an engine house.

This uppermost section requires the lowest maintenance because landscaping consists of rocks, native cacti and succu-

At least \$20,000 has gone into the garden. For example, a kit to build the mine cost \$400; each foot of track represents \$2.50; one of the engines went for \$2,000.

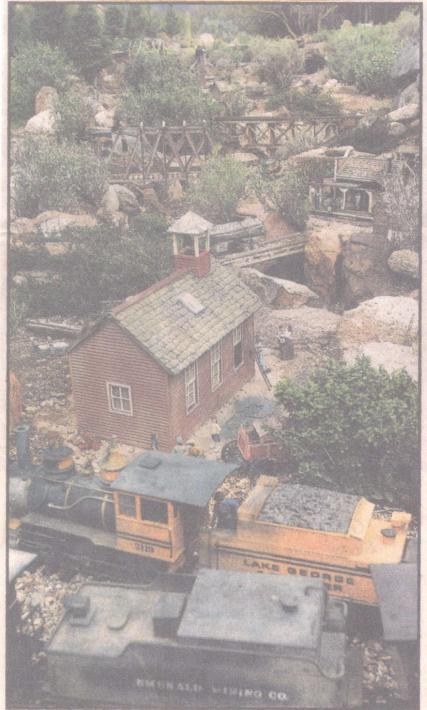
Many of the scenes' objects came from hobby shops, Ace Hardware on East 22nd Street, The Home Depot and Garden Railways magazine. But Gary also creates items.

The retired engineer constructs tiny Styrofoam buildings such as Fagg's Fine furniture store, which appears in the garden and is named after club men ber Willis Fagg. The material holds up well in the desert climate.

Gary sculpts figures from clay and often handcrafts model railroad cars for customers in the eastern part of the United States. To avoid sun damage, most figures usually remain in boxes and only go outside for special occasions, such as the upcoming tour

Gary suggests that visitors bring walking shoes for the tight garden trails and stay at least an hour to see all the scenes.

Meanwhile, he'll continue to devote at least one hour daily to garden maintenance. Routine tasks include cutting shrubs bac and replacing ballast. "It is just



The Eagle Mountain Railroad line has about a quarter-mile of track, plus numerous scenes reflecting Arizona life between the 1890s and the mid-1930s.

Tucson Botanical Gardens

2003 Home Garden Tour



Celebration of Gardens

Saturday April 5th 10 am-4 pm Sunday April 6th 10 am-4 pm



TBG: 2150 N. Alvernon Way

1. 4625 E. Cerro de Aguila

2. 6237 E. Via de la Yerba

3. 1544 W. Oak Shadows Pl.

4. 2950 & 2980 E. River Rd.

5. 2933 E. Helen St.

PIMA COUNTY FALIF April 17-27

Shark Encounter



Sea Lion Splash

Baseball Exhibit



XBox Odyssey

Games, Food & Fun!

Concerts & Events

- * April 18 Fireworks / HP
- ★ April 19 Chris Cagle!
 Corvette Car Show
 Teacher Appreciation, \$1 Admission
 With School Employee ID
- April 20 Sunrise Service
 Easter Celebration
 Los Tigres del Norte
- ★ April 21 Dollar Day \$1 Parking, \$1 Admission, \$1 Rides
- April 22 Senior Day \$1 Admission For 55+

- ★ April 23 Fairest of the Fair College Night \$1 Admission With College Student ID
- ★ April 25 Fireworks Karaoke Finals
- April 26 Demolition Derby
 Military Appreciation \$1
 Admission With Military ID
 Foreigner Lead singer, Lou Gramm
 Blue Oyster Cult
- ★ April 27 Family Fiesta Day With Rogelio Martinez y Banda Kampesino

Wrist Band Days

★ April 17 · RC Cola ★ April 20 ★ April 24 · Pepsi & Wendy's

DMISSION

6.00 * Ages 6-10 - \$1.00 * Parking - \$3.00

GATE

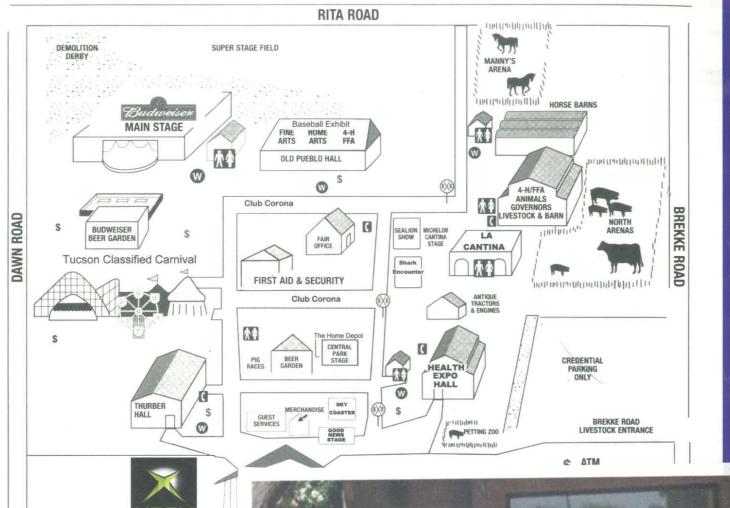
lay except opening April 17th at 6pm

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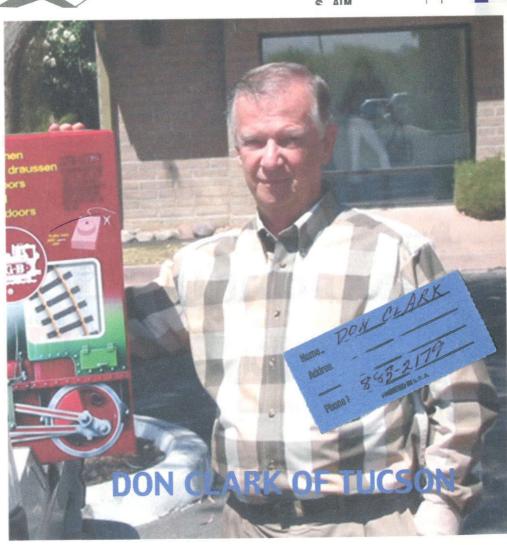






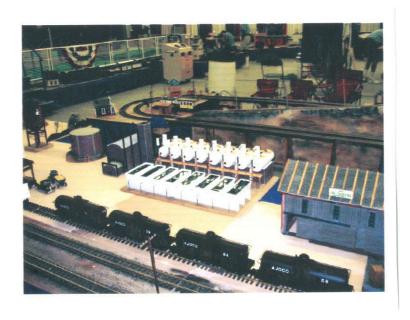


Car and Truck Rental of Tucsor



Tucson Garden Railway Society Show Day Chairman Duties

- 1. If possible, have available for your use a cell phone. Notify the Vice President the number of that phone, so that your people can be contacted in an emergency.
- 2. On the day prior to your work day, contact all members who are scheduled to work the shifts of your day. Should anyone be unable to serve, try to arrange a substitute. If you are unable to get a substitute, contact the Vice President for help.
- 3. Assist your volunteers to the greatest extent possible while they are on duty.
- 4. At the end of your day, collect the Raffle Ticket Sales proceeds and arrange to turn them over to the Treasurer. Record the ticket number of the last ticket sold, and the number of tickets sold that day. This, too, is to be turned in to the Treasurer.
- 5. Should any problems arise that cannot be immediately solved on site, contact the Vice President or President, in that order.



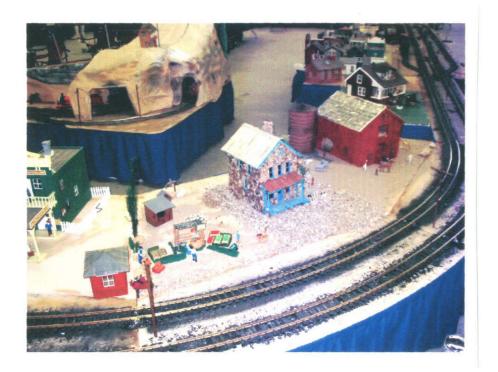
Tucson Garden Railway Society

Sign-up for the Pima County Fair, April 17th thru 27th

- Set-up Monday, April 14th, 10 AM: Ulmer, Fitzner, Stoessers, Dirksens, Alan & Lee, Sleeper, Junkers, Skinner, Duda, Martin, Izen, Buchholz, Cooks, J. Anderson
- More setup Tuesday, 15th, 10 AM: Ulmer, Fitzner, Stoessers, Dirksens, Sleeper, Junkers, Skinner, Duda, Buchholz, Fagg, Cooks, Martin, Dorgans
- And finish setup Wednesday, 16th, 10 AM: Fitzner, Dirksens, Junkers, Springstead, Buchholz, J. Anderson
- Run Trains, Thursday, 17th: Day Chairman Bob Dirksen, Cell phone number 490-5987 From 6 PM til 10PM: Skinner, Martin, Buchholz, W &D Fagg 147.7136 299.7428
- Run Trains Friday, 18th, : Day Chairman Norm Ulmer, Cell phone number 275-9676 From 10 AM til 4:00 PM: Duda, J & M Cook, Fitzner, Izen, J. Anderson From 4:00 til 10 PM: Skinner, J& S Sanders, Eberbachs
- Run trains Saturday, 19th, Day Chairman Gary Martin, Cell phone number 869-5264 From 10 AM til 4:00 PM: Merheb, Dirksen, Lee & Alan, Bob Hoffman From 4:00 til 10 PM: W & D Fagg, Buchholz, Fitzner, Rick Gast
- Run trains Sunday, 20th, Day Chairman Norm Ulmer, Cell phone number 275-9676 From 10 AM til 4:00 PM: Springstead, J & S Sanders, R & M Eberbach, I. Ulmer From 4:00 til 10 PM (need 2 more people): Skinner, I. Ulmer, Buchholz
- Run trains Monday 21st, Day ChairmanBob Dirksen, Cell phone number 490-5987 From 10 AM til 4:00 PM : W & D Fagg, S Anderson, Buchholz, Leaver? From 4:00 til 10 PM Buchholz, Fitzner, J & M Cook, J. Miller 578-0064 760-2325 886-7611
- Run trains Tuesday 22nd, Day Chairman Joe Stoesser, no cell phone. From 10 AM til 4:00 PM: Dirksen, Skinner, Martin, Buchholz, Tiefenbach, & Madden From 4:00 til 10 PM Dirksen, Martin, Buchholz, R & M Eberbach
- Run trains Wednesday 23rd, Day Chairman Norm Ulmer, Cell phone number 275-9676 From 10 AM til 4:00 PM: Dirksen, J & M Cook, S Anderson, C. Cook From 4:00 til 10 PM: Duda, Waesch, Gustillo, Fitzner, D. Junker
- Run trains Thursday 24th, Day Chairman Bob Dirksen, Cell phone number 490-5987 From 10 AM til 4:00 PM: Skinner, Buchholz, Tiefenbach, Madden, S Anderson. From 4:00 til 10 PM: Duda, Ulmer, Buchholz/W & D Fagg
 299-3101 299-9901
 825-7596

Page 1 Pima County Fair (cont'd)

Run trains Friday 25th, Day Chairman Bob Dirksen, Cell phone number 490-5987
From 10 AM til 4:00 PM: Ulmers, S Analerson, C. Cook, Fagg,
From 4:00 til 10 PM: Stoessers, Lee & Alan, Fagg & Lathrem 544-5541
Run trains Saturday 26 th , Day Chairman Bob Dirksen, Cell phone number 490-5987
From 10 AM til 4:00 PM: Skinner, Ulmer, Buchholz, Fitzner, Fagg
From 4:00 til 10 PM Mitchells, Buchholz, Wilson, Lathrem
Run trains Sunday 27th, Day Chairman Joe Stoesser no cell phone.
From 10 AM til 4:00 PM: Lee & Alan, Tulino, Izen, Buchholz
From 4:00 til 10 PM: Dirksen, Skinner, Mitchells, Izen
Tear down, Sunday 27th, 5 PM (Come one, come all!)
Tear down, Monday 28th: (The more the merrier) Dirksens, Sleeper, Skinner, Duda, Martin,
Dorgans, Sanders, Fagg, Junker





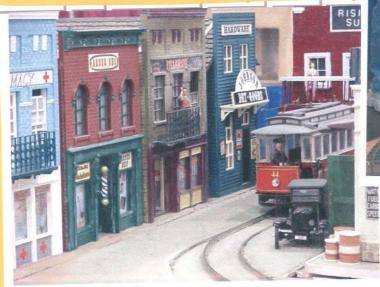


Arizona Home Show June 13, 14,15 2003

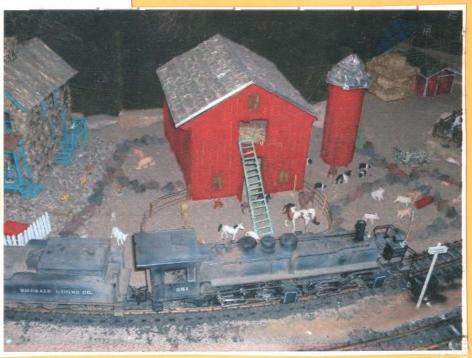














H









Arizona Big Train Operators

OPEN HOUSE

NOVEMBER 8, 2003

TRAIN SCHEDULE

 Bill and Herta Nagle's 1137 N California, Chandler 480-899-9054 	9:45am
 Ed and Carole Dunshie's 3326 East Fairfield, Mesa 480-807-3575 	10:45am
 Rodney and Janet Benner 15837 N. 21st Pl., Phoenix (Lunch and meeting) 602-971-2478 	12:00pm
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 Kal and Barbara Miller 1145 W. Northview, Phoenix. 602-725-3001 	2:45pm
6. Jerry and Joanne McKenzie 8598 Canterbury Lane, AZ City 520-466-5938	4:00pm

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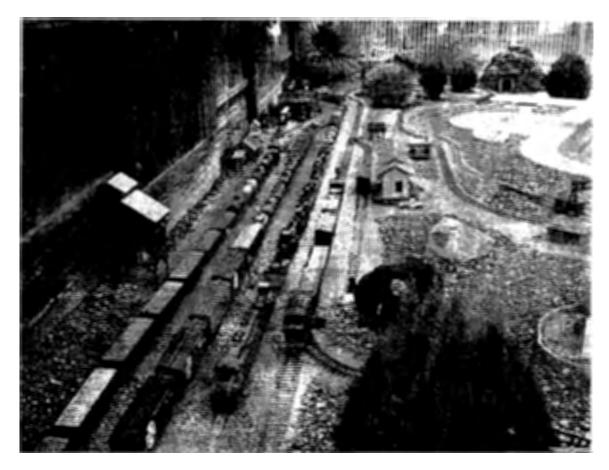
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industrial section of Whiskey Flats and the extended trestle bridge on the West side of the pool. The completion of this section allowed for the expansion of track loop 3.

A 400-foot long rope light system was recently installed around the entire layout perimeter and is now operational. The railroad consists of approximately 26 buildings with more being added each year. The iron bridges and trestles were custom made for the railroad by Eaglewings Iron Craft of Phoenix, Arizona. The operating railroad crossing sign and lights came from the area around Superior, Arizona. The Burlington SantaFe Railroad in Phoenix donated the electrical operator for the sign.

There are many things to see in our train garden. Please feel free to walk around the entire perimeter of the layout. We hope you enjoy your time at the Whiskey Flats railroad.

Chief Engineer:

Kal Miller

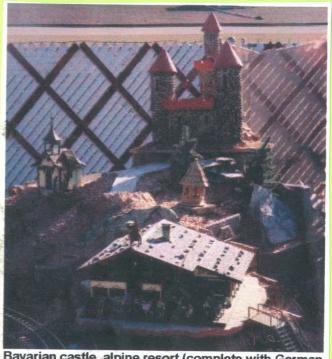
Conductor:

Barbara Miller

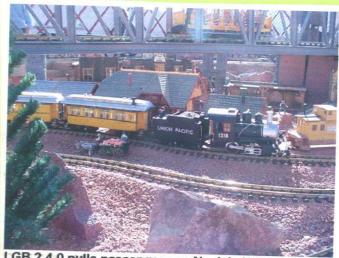
JERRY & JOANNE MCKENZIE'S RAILROAD







Bavarian castle, alpine resort (complete with German band on the patio) on the Nagle's German layout



LGB 2-4-0 pulls passengers on Nagle's U.S. layout

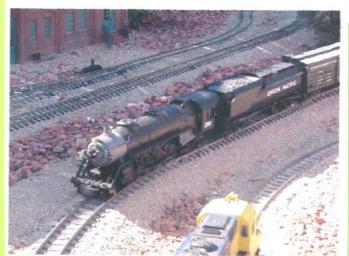


A Sumpter Valley with a short freight enters Hell Gate



LGB's Beyer Garett pulling European passenger cars

Then it was on to Rodney & Janet Benner's Red Rock Railroad where we saw some nice long trains, both steam and diesel powered (and had lunch).



Aristo 2-8-2 with long Vanderbuilt tender meets diesel train with 3 units, 17 cars and a caboose.

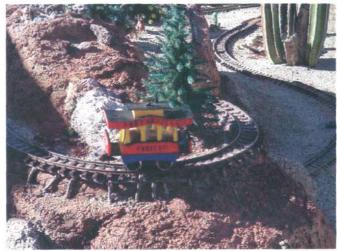


Most of 17 car freight rounding swimming pool

Glen and Katy Sampson's layout had many loops and many detailed scenes including the scratch built Toonerville Trolley.



Loops and trains on left side of the layout



The Toonerville Trolley had its own loop

Then it was on to Cal and Barbara Miller's Whiskey Flats Railroad that featured a long UP passenger train, a Tehachapi style loop, steam powered freight and most uniquely, hollow tree trunk tunnels.



Long U.P. passenger train crossed suspension bridge across drainage ditch.



The final stop of the day was at Jerry and Joanne McKenzie's railroad in Arizona City. This pike is actually three railroads. There is an extensive but sparsely sceniced outdoor railroad, a highly detailed indoor railroad and a modular layout which featured racing eggliners carefully watched by Snow White and seven vertically challenged friends (OK, seven dwarfs).



Battery operated remote control train crosses bridege on the outdoor layout.



Part of well detailed indoor layout



Eggliners race under the eye of Snow White and her seven vertically challenged friends



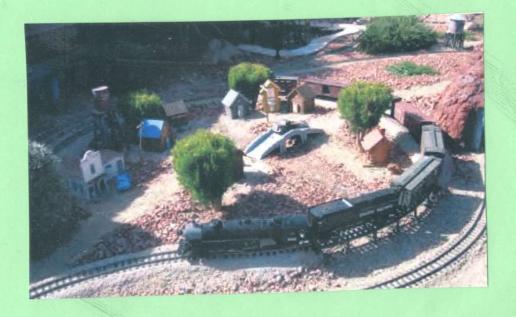
Bill & Herta Nagle's Indian Mountain & Mining R.R. 11/8/03
ABTO





Ed and Carole Dunshie's MMi&E Railroad 11/8/03 ABTO

Rodney & Janet Benner's Redrock Railroad 11/8/03 ABTO



Glen & Katy Sampson Skunk Creek & Deer Valley R.R. 11/8/03 ABTO





Kal & Barbara Miller's Whiskey Flats Railroad 11/8/03 ABTO

Jerny & Joanne McKenzie's Railroad
ARTO





Norman Ulmer, Vice President

4935 N. Craycroft Road

Tucson, Arizona, 85718

Phone: A/C 520-299-9401

E-mail: nhulmer@earthlink.net

12 October, 2003

Phoenix Round-About Itinerary 8 November, 2003

Depart Foothills Mall

7:30 Am

Pick up guide at I-10 & SR 587

9:00 Am

Arrive at first stop,

Bill & Herta Nagle,

9:30 Am

1137 North California St. Chandler, AZ

Phone (480) 899-9054

Arrive at second stop, Ed & Carole Dunshie,

10:40 Am

3326 East Fairfield,

Mesa, AZ

Phone (180) 807-3575

Arrive at third stop,

Rodney & Janet Benner,

11:45 AM

15837 North 21st Avenue,

Phoenix, AZ

Phone (602) 971-2478

This stop includes the lunch break.

Arrive at fourth stop, Glenn & Katie Sampson,

1:30 PM

4222 W. Monte Cristo Ave.

Phoenix, Az

Phone (602) 938-9752

Arrive at fifth stop,

Kal Miller,

2:30 PM

118 West Northview Ave.

Phoenix, AZ

Phone (602) 725-3001

Arrive at sixth stop,

Gerry & Joanne McKenzie,

3:45 PM

8598 Canterbury Lane

Arizona City, AZ

Phone (520) 466-5938

Return to Foothills Mall at approximately

5:30 PM

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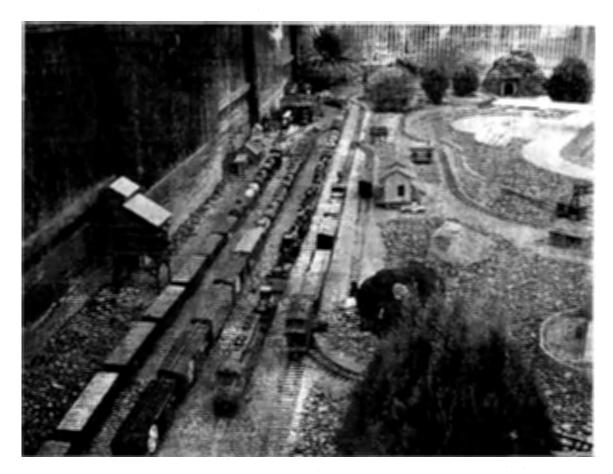
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The train conductor decided shortly after the completion of Phase II that a Phase III should be constructed. This phase was started in 2001 and was just completed near the end of 2002. It includes the

industrial section of Whiskey Flats and the extended trestle bridge on the West side of the pool. The completion of this section allowed for the expansion of track loop 3.

A 400-foot long rope light system was recently installed around the entire layout perimeter and is now operational. The railroad consists of approximately 26 buildings with more being added each year. The iron bridges and trestles were custom made for the railroad by Eaglewings Iron Craft of Phoenix, Arizona. The operating railroad crossing sign and lights came from the area around Superior, Arizona. The Burlington SantaFe Railroad in Phoenix donated the electrical operator for the sign.

There are many things to see in our train garden. Please feel free to walk around the entire perimeter of the layout. We hope you enjoy your time at the Whiskey Flats railroad.

Chief Engineer:

Kal Miller

Conductor:

Barbara Miller

TGRS FUND RAISER

<u>"Garden Railway Tour"</u>

By Roy Eberbach on behalf of Jerry Springstead and Jay Sanders

Working Paper October 27, 2003

Date of the Event. - January 24 / 25 2004.

Our committee has done a good bit of research and has chosen this date. The weather should be dry and in the low 70's. At this point there are no major conflicting community events on that weekend. The Superbowl is the following weekend. This date should give us the time to advertise and sell tickets after Christmas and before the Rodeo and Gem Show Events.

Time of the Event. - 12 p.m. till 4 p.m..

We would suggest that the railways be open on Saturday and Sunday from 12 p.m. till 4 p.m. This will give our guests a total of eight hours to visit the layouts and our hosts time to prepare the layouts for show.

Number of railways open on the Event. - 8 each day.

At this time we have had nine members volunteer their layouts for the event. We would life to choose layouts with a spread across the Tucson Metro Area. However we would like to keep the driving between layouts to a minimum. Gary Martin's layout will serve as the centerpiece for the event.

Cost of the Event. - \$5.00 for an Individual ticket and \$10.00 for a Family Ticket.

This cost, we feel is in order for a first time event. It would also encourage families to come out. The family ticket would be good for two adults and children from their household. We would also ask people to bring one canned good per person for the foodshelves.

Advertising for the Event.- We will need the following at a minimum.

- Flyers (5 1/2" X 8 1/2") on brightly colored paper. These will be put in hobby shops, garden supply houses, nurseries, Tucson Botanical Garden, Tohono Chul and at other train clubs such as the Toy Train Operating Museum. Also members will be asked to post one on employee bulletin boards (where possible) at work, school, church and shopping areas.
- Posters (8 1/2' X 11") to be posted at the above and wherever we can post them.
- Free listings in Tucson newspapers, Tucson Magazine, radio and perhaps TV and club and garden newsletters.
- Paid advertising in Tucson newspapers (about \$200.00) will get us

listing in the papers and perhaps an article like the one on Gary's layout for TBG fund raiser.

<u>Ticket Sales for the Event. - Advance sales will be important.</u>

- Members can sell tickets to friends, co-workers, family, etc.
- We could with TBG's permission sell tickets at the Christmas display layout. (December / January.
- We could have a person selling tickets at 22nd. Street Ace on the two Saturdays and Sundays before the event.
- We could sell tickets at the January Swap Meet at T.T.O.M.
- We could sell, with permission at garden centers, on the weekend before the event.
- We should sell at each of the layout locations during the event.

The club will need to provide for the Event. - people and materials.

- We will need at least two club members at each layout location to sell and punch tickets and assist the hosts. (3 or 4 would be better)
- Crossbuck Signs to be set up in front to the host home.
- Sales people for the two weekends ahead of the event.
- Flyers about the club and a membership form.
- Tickets and a sheet with a map showing layout locations and a brief description of each railway.
- Upfront money for advertising materials.

The hosts will need to provide for the Event. - at a minimum.

- A working railway in good order.
- A cell phone in case of emergency. (helpers could provide phone)
- No rest room facilities, nor house tours. (keep house locked) The page which contains maps and railway descriptions will state that there will be, "NO REST ROOMS AVAILABLE".
- Cool water and cups if the day is hot.
- A handout telling about their railway and its history.

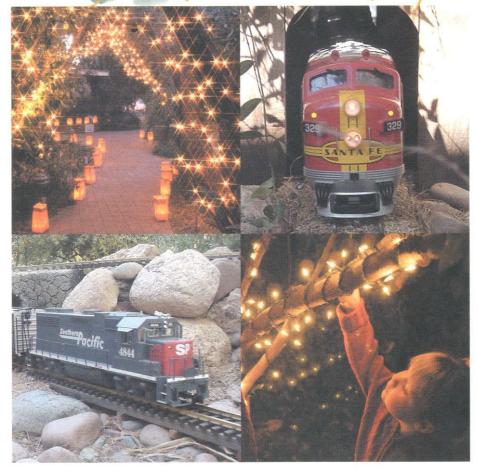
Questions to be resolved by the Board of Directors.

- 1. Do we wish to set up the kid's layout (in a garage) at one of the layouts? This would require several more people.
- 2. Does the club wish to raffle off a trainset with this event?

Gardens Botanical Botanical Charles

A Newsletter for Members of the Tucson Botanical Gardens ■ Winter 2003 – 2004

All Aboard for a Carden Holiday,



Garden Railway * Holiday In The Gardens *Luminaria Nights



All Aboard!

Garden Railways Have a Long History

M odel railroads are as old as full size trains and garden railroading started soon after railroads began crossing the country. Many railroad pioneers had scale versions of real equipment made to illustrate their ideas. These

The "Holidays on Rails" exhibit is scheduled to open on November 20th and will be on display, weather permitting, through the winter. For more information on the exhibit, call the Gardens at 520/326-9686, ext. 10.

models grew over the years into trains that could be ridden upon or that served as a source of entertainment. In the 1890s, the Märklin Toy Company introduced a line of special-order tin plate toy trains in several scales with locomotives driven by clockwork, electric motors, or live steam. By the 1960s the larger scales had faded in popularity with the general public and were owned mainly by collectors and live steam enthusiasts. Another German toy company, LGB,

began to produce gauge I or garden scale (G-scale) trains in the late 1960s. Conditions were right and garden railroading took off as the fastest growing segment of the model railroad hobby. Today, garden railroading has become a family hobby enjoyed by people of all ages and genders. It can be as inexpensive or expensive

and elaborate as you want with sets running anywhere from \$100 up to museum quality models costing as much as \$12,000-\$15,000.

Garden railroading combines a fascination with trains and the joy of gardening and can be any size from a small patio garden to many acres of gardens and trains. Some garden railroaders simply run track through an

existing garden so they can watch the trains run and the plants grow. Others build fantasy layouts where dragons roam; or include such specialties such as the London to Hogwarts Express. These garden railroads attempt to mimic in a small scale the full size features of the world around us using dwarf Alberta spruce

as pine trees, bonzai'd azaleas as chestnuts or oaks, and dichondra, thymes, and mints as ground covers and small shrubs. Plants with small leaves are desirable because they won't grow to a size that will overwhelm the track and buildings. Other garden features are also used to create small representations of the real world such as water features, including streams, ponds, and waterfalls; or forests, plains, and mountains. Sometimes tons of rock and earth are moved into the garden to create hills and valleys to give the impression of tracks wandering through rocky mountain passes.

Once the garden framework is in place, towns, industries, and people can be added to create an infinite variety of scenes. Buildings can be purchased in pre-built or kit form or constructed from plans or photos. The scenes can be populated with figures purchased or carved from polymer clays. The possibilities are endless.

The Tucson Garden Railway Society (TGRS) was started in 1994 by a group of families interested in garden railroading. As a nonprofit educational corporation, the purpose of the Society is to help members learn about and enjoy all facets of garden railroading. They conduct meetings, clinics, workshops, and displays for members and the general public at home shows, schools, churches, county fairs, and other public venues such as the Gardens. Some TGRS members have impressive home garden railroads that rival some of the finest layouts across the country. The TGRS is a completely volunteer organization and wel-

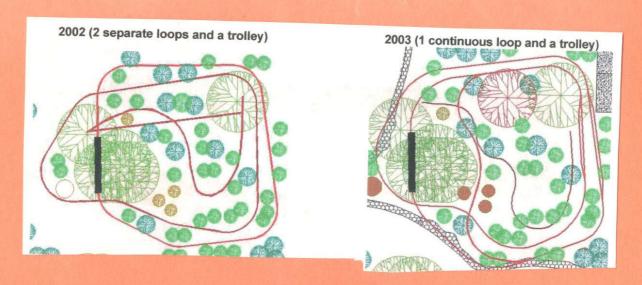
The TGRS will be setting up a holiday display at the Gardens again this year. We all hope you enjoy the trains!

comes families and

members.

individuals to become



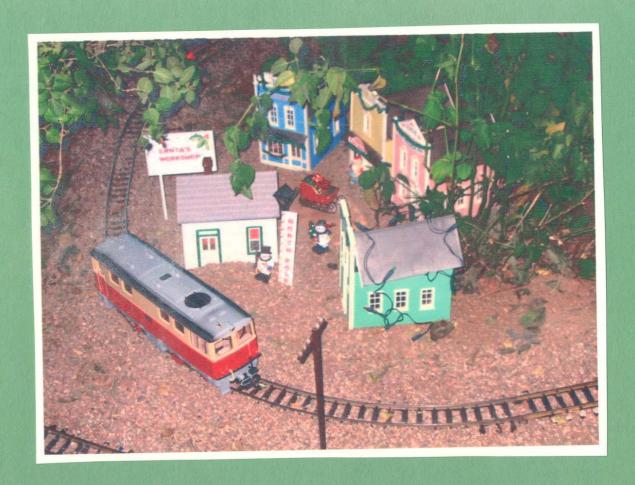


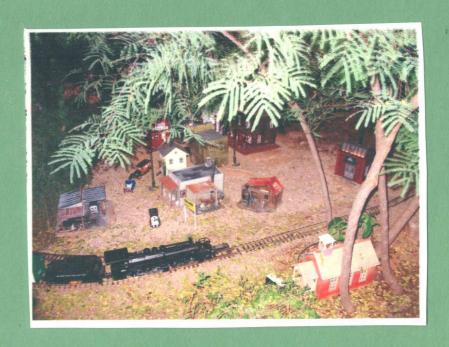








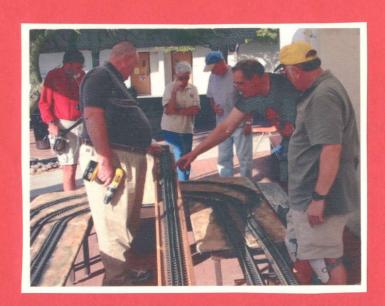


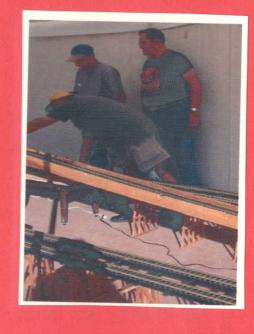






St. Mark's Early Childhood Center - December 2003











HOLIDAY PARTY DECEMBER, 2003











Tucson Garden Railway Society

Welcomes

the Arizona Big Train Operators

to our

Spring Round-About March 18, 2000





Tucson Garden Railway Society

President:	Jon Anderson -	(520) 529-6554
V-President:	Gary Martin -	(520) 299-7428
Secretary:	Phyllis Dirksen -	(520) 742-9503
Treasurer:	Dick lzen -	(520) 498-4634
Editor:	Nick C. Buchholz -	

The Tucson Garden Railway Society would like to welcome all of you to our Second Round-A-Bout. We hope the weather is better this time and we also hope you all have as much fun this time as you did last time. You'll be visiting eight railroads belonging to TGRS members today. We hope you enjoy them. This booklet will tell you a little about each railroad and introduce you to the builders and owners.

The schedule today is tight and ends with dinner at Pinnacle Pete's Restaurant with the TGRS members. Get ready for a fun day.

Today's Schedule

1000 -1030 - Sleepy Hollow RR - Dick and Jeanne Izen

1045 - 1115 - Grand River Southern - Bob and Eileen Schwab

1130 - 1150 - J.J. & A. Railroad - John & Jean Woodward

1230 - 1330 - Lunch at the Eagle Mountain RR - Gary and Peggy Martin

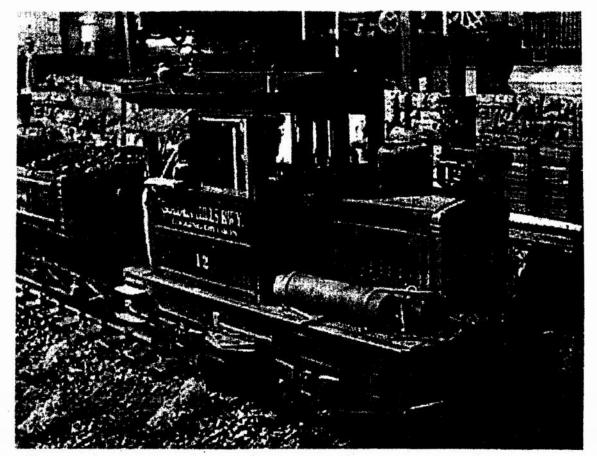
1345 - 1415 - Sunrise & Cimarron RR - Darel, Anne & Kevin Magee

1430 - 1450 -Red Rock Railroad - Mike and Jane Dorgan

1515 - 1545 - Silverado Hills Railroad - Rick And Debbie Taylor

1600 - 1630 - TNT Railroad - Rick And Sue Gast

1700 - Departure - Dinner at Pinnacle Pete's Restaurant



Plymouth Gas Mechanical Industrial Engine Model (I:20.3)



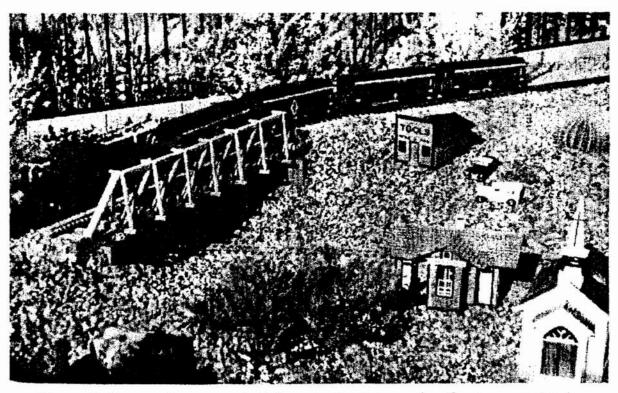
The unfinished Lantana Tunnel on the TP&SD RR

SLEEPY HOLLOW RAILROAD

The Sleepy Hollow is a battery operated railroad with roughly 350 feet of track. It is (very) roughly in the shape of a bent figure eight running across the rear of the yard (between the pool and the fence) and down either side. On the right it continues down the side of the house and has a three track stub yard and reversing

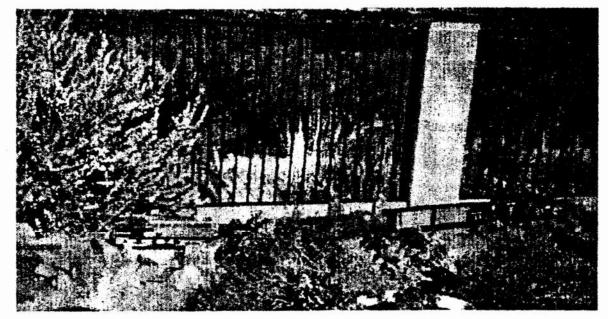


loop. The railroad features four sidings so that trains can pass and meet. Although not planned, another prototypical element is the occasional derailment, a feature which is being eliminated as I get more ballast down.

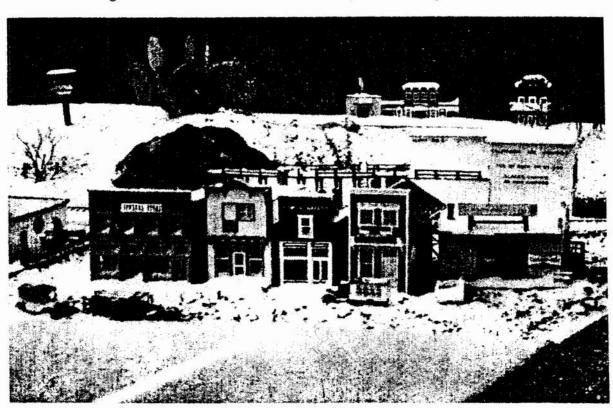


Sleepy Hollow engines carry their batteries in their tender (for steam engines) or in their car body (for diesels) and are equipped with sound. The steam engines and freight rolling stock use Kadee couplers. A couple of the Aristo Craft FA diesel engines and standard heavyweight passenger cars still have Aristo Craft knuckle couplers. An adapter tank car is used to allow those engines to pull freight trains.

Engines and rolling stock are an eclectic mix of narrow gauge and standard gauge equipment. While I prefer steam engines, my grades limit them to shorter trains. In addition I love the way the FA's and the long standard passenger cars look. They seem to fit in well, except when I am tunning short narrow gauge passenger trains.



My scenery is pretty much natural with full size plants, some rock work and a number of buildings. I have a mixture of kits and scratch built buildings which I think helps to break up the sameness of the basic Pola kits. In addition scratch building and kit bashing has allowed me to get some unique industries. All of the buildings suffer from the strong sun and heat but snow isn't usually much of a problem.

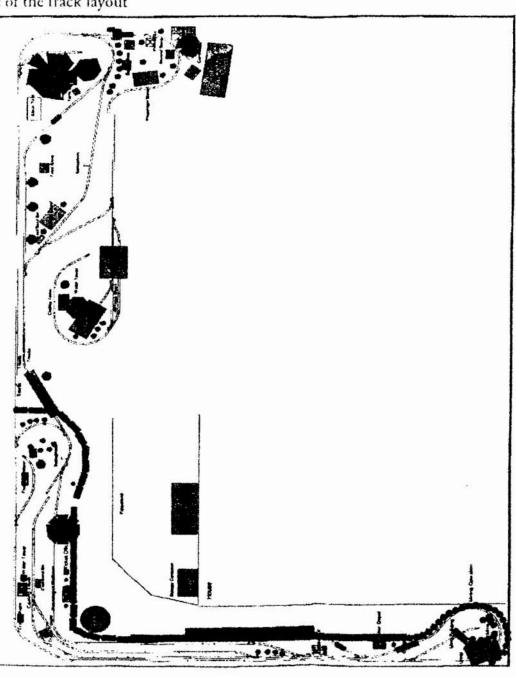


O. O. O. A. HALLIOAD

The J.J.&A Railroad was started on June 15, 1999. I has about 375 feet of track. The layout is L-shaped, One leg is 60 x 8 feet the other is 35 x 3.5 feet. THe JJ&A is an 1880-1930 era railroad. It has 22 buildings including a saw mill with a sound system that sounds like sawing wood.

For motive power the JJ&A uses 1 mogul and 3 forneys from LGB and two C-16 Steam engines from Aristo-Craft. Two different control and power systems are used. The four LGB engines are equipped with Locolinc receivers. The power for operation comes from filtered DC power supplies feeding the track. The Aristo engines run using an Aristo Train Engineer system which can be swapped out with banana clips.

The railroad runs a number of different brands of rolling stock. Freight and passenger cars from LGB, Freight cars from both Aristo and Bachmann. Below is a schematic of the track layout



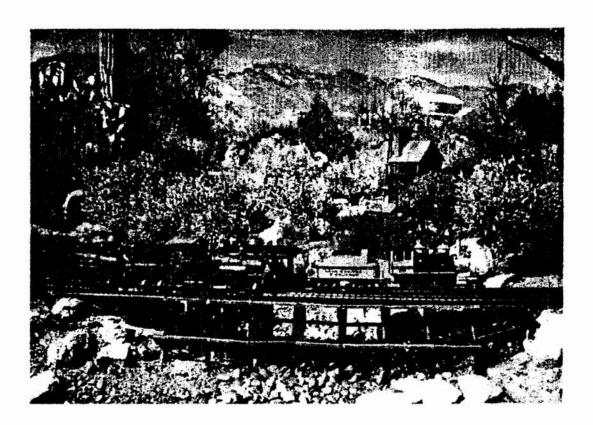
tagie iviountain Kailroad

The Eagle Mountain Railroad has been under construction for five years and as with all railroads it is not yet complete. Gary has been working on the new upper section for just a few months but it is already on the way to completion. The layout is about 40 by 115 feet and includes about 900' of track

The Eagle Mountain Railroad is a logging and mining railroad set in the late 19th and early 20th Century. There are 30 structures, both kits and scratch-built, representing the range of buildings found in rural areas and small towns both on and off line.

The EMR motive power comes from two ex-D&RG LGB moguls, an ex-Sumpter Valley mallet, a Porter, an 0-4-0 switcher from Hartland, three shays and a Climax. The rolling stock includes logging disconnects, gondolas, hoppers and several passenger cars.

Power and control comes from track power and Aristo-Craft Train Engineers.



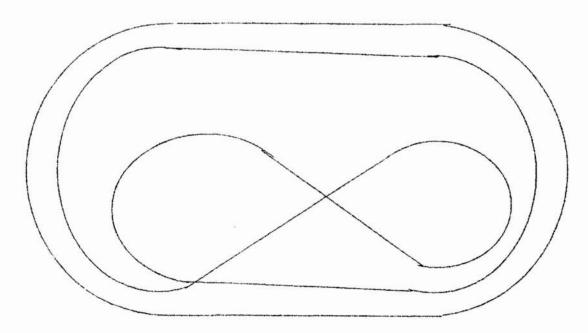
Sunrise and Cimarron Railroad

The Sunrise and Cimarron Railroad was started in 1989. Today it consists of two loops. The outside loop has about 196 feet of track in a large oval. The inside loop consists of 364 feet of track in a folded figure-eight on two levels. The total area of the layout is 24 feet by 84 feet.

While the S&C RR has no off line structures, it does have two bridges and three tunnels. These allow the trains to cross over each other. A trestle is in the process of construction.

The S&C RR has 6 or 7 engines and 25 cars. The S&C uses track power and Aristo-Craft Train Engineer remote control.

On our info sheet Darel comments "I never promised her a rose garden, just lots of rocks"



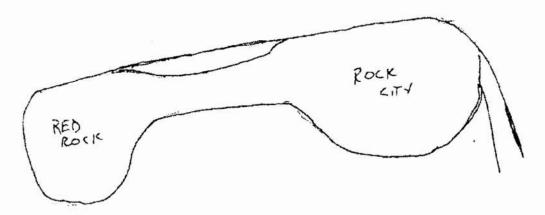
Layout of the Sunrise and Cimarron Railroad

RED ROCK RAILROAD

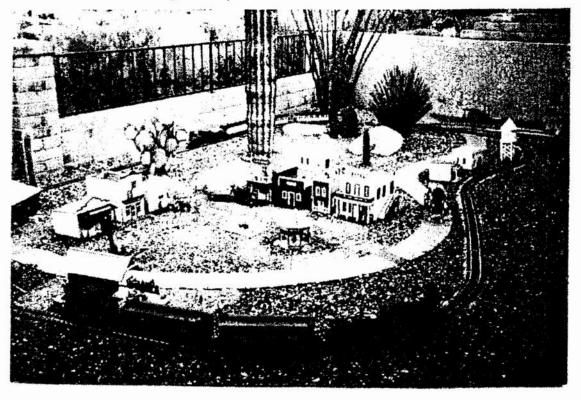
Mike and Jane Dorgan's Red Rock Railroad is less than a year old. Starred in July of 1999 the Red Rock is now about 60' by 15 ' and has about 200' of track. The Red Rock is named after the water tower which still remains at Red Rock on the old SP mainline.

The Red Rock serves Rock City and Red Rock. Rock City is the big town with a depot, mission, downtown area, boot hill, stockyards and other buildings and features. Red Rock is a small town with a rural depot, an Indian village, a fort, settlers homes and more. There are 30 structures and 6 wagons on the layout.

The railroad serves its customers with two engines and an handful of passenger and freight cars. The engines are battery powered with Sierra sound systems.

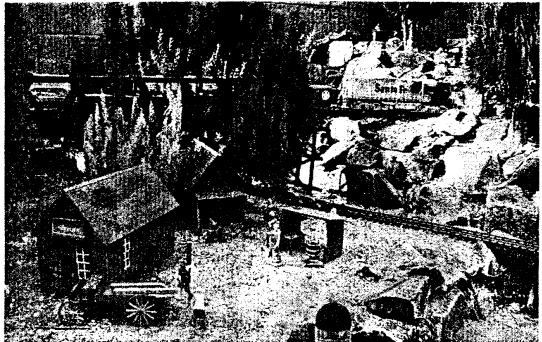


Layout of the Red Rock Railroad

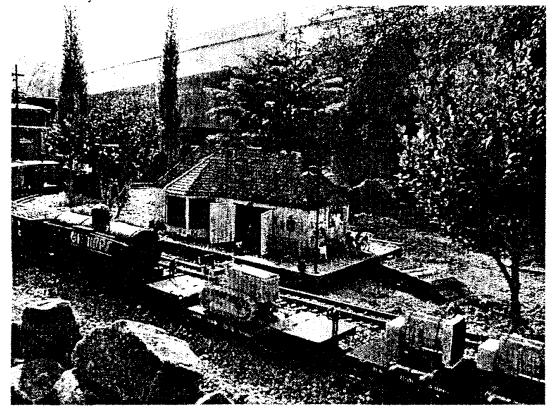


Silverado Itills Railroad

The Silverado Hills Railroad (SHRR) is about 3 years old it includes 500' of track, 70' of which is a ceiling mounted layout in the garage, it represents a mining and small town Railroad around 1950. The motive power includes ten engines. There are 53 pieces of rolling stock



Ten Structures grace the layout including a huge mine Mill house. The layout uses three control systems.

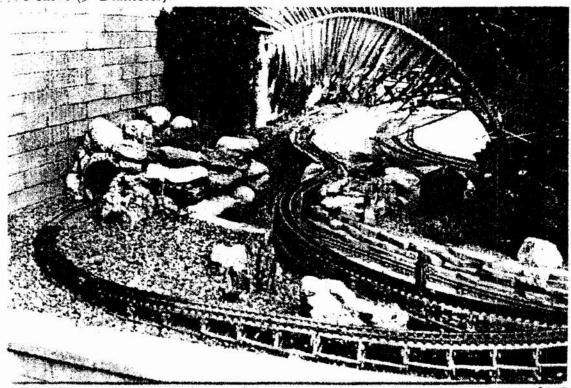


THE WHILE OFFICE

TNT RAILROAD

The TNT Railroad was named after two (now retired) track layers that provided the cheap labor to build the layout. During the year 2000 the owners are eager to start phase three of the Railroad. This means that TNT, alias "Tim and Ted" will be forced out of retirement for the new construction. However, the owners have been informed that the labor rates have tripled since 1995 when the layout was started.

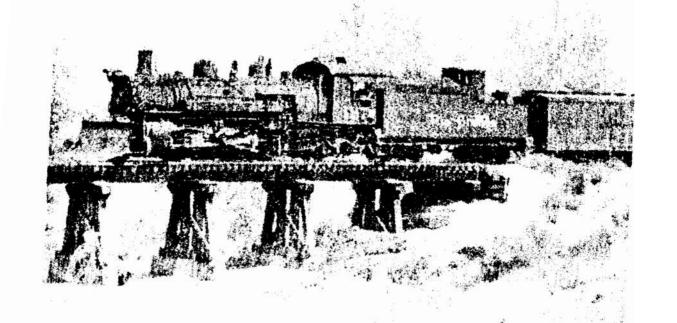
The layout contains about 320 feet of Aristo and LGB track. It covers a space 47 feet by 6 to 12 feet wide. The switches are LGB 1600's. The smallest curves are LGB 1500 curve (5' Diameter).



The layout depicts a railroad of the early 1900's. Motive power consists of LGB steam engines and diesels from LGB, USA Trains and Aristocraft. Rolling stock comes from LGB, USA Trains, Delton and Aristocraft.

There are a dozen buildings on the layout including those by Piko, Lionel, Railroad Ave., Aristocraft and Korber.

The power and control comes from 2 - P.H. 10 AMP transformers with Aristocraft Train Engineer remote controls.



So long and see you all in the fall