MANIFEST CREATOR AD-ON TO JMRI

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DISCLAIMER (Return)

Manifest Creator (MC) is an add-on application that can be used with output generated from JMRI Operations Train Build feature. This application is written using Visual Basic for Applications (VBA) within Microsoft Excel and originally ran on the Windows (only) Platform. Thanks to "*Dave Heap*" it now will also run on the MAC Platform. MC is NOT part of JMRI, but is used in conjunction with JMRI. The basic function of MC is to produced a more formally formatted manifest that can be used in place of the manifests that are generated by JMRI.

NOTE: With recent changes this App no longer functions properly within the MAC version. If someone cares to try and figure out just what is wrong, that would be great. I do not have access to a MAC and Office for the MAC. (06/13/15).

Train Manifest		- 1 -		BO AM
Pine Bluff Operati	ons Test			
Manifest for train	(A2F)			
Valid 10/31/2012 0	8:17			
Scheduled work at	ABLE, departure ti	ime 00:00		
	or ABLE - This is R129 Reefer	where the new LC show	uld show up. from A-D	
[] Pick up AA [] Pick up AA	R129 Reefer F019 Flatcar	40' Black E 40' Black L	(Hasardous) from A-G	
[] Pick up AA	F015 Flatcar	40' Black E	(Hazardous) from A-G	
[] Pick up AA [] Pick up AA	T051 Tank 0il T059 Tank 0il	40' Black E 40' Black L	from A-A from A-B	
		Loads, 3 Empties, 22	0 feet, 225 tons	
Scheduled work at	BAKER, estimated a	arrival time 00:04		
[] Set out AA [] Set out AA	R129 Reefer	40' Black E	to BB (Hazardous) to BB	
[] Set out AA [] Set out AA	F019 Flatcar F015 Flatcar	40' Black L 40' Black E	(Hazardous) to BB (Hazardous)	
to BC InterCh	ange			
ITAIN departs DARL	k westbound with I	L Loads, 1 Empties, 8	o feed, 100 cons	
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NO WOLK IC DODGE				
	EAGLE, estimated a R148 Reefer	arrival time 00:25	from EB	
This is a Car		and have also in and	l look like in the file	
[] Fick up AA [] Set out AA	X178 Boxcar T051 Tank 0il	40' Black E 40' Black E	from EC to ED	
		Loads, 1 Empties, 1		
Scheduled work at	FOX, estimated arr	cival time 00:38		
[] Pick up AA	X111 Boxcar	40' Black E	from FC	
[] Pick up AA This is a Car	R031 Reefer comment and I do	40' Black E not know what it wil	from F& 1 look like in the file	
[] Pick up AA	F017 Flatcar	40' Black L	(Hazardous) from FA	
	T059 Tank 0il Westbound with 2 L	40' Black L Loads, 3 Empties, 220	to FA feet, 173 tons	
No work at EAGLE				
No work at EAGLE No work at DODGE				
No work at CHARLIE				
No work at BAKER				
			to A-C l look like in the file	
[] Set out AA	R148 Reefer	40' Black L		
[] Set out AA	R148 Reefer	40' Black L	l look like in the file to A-E	
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Sample Manifests - JMRI & Manifest Creator

Train terminates at ABLE Created with Manifest Creator Version 2.0 as of 10/11/1

Having explained all that is found above, it is understood that there is a somewhat limited

set of users that can take advantage of this application. MC has been tested and run using Excel 2000, Excel 2003, Excel 2010 and Excel 2013 although it requires the program be saved in Office 2007 or above format. Not to worry these are available as well as the version that runs on older versions of Excel. If you have Excel 2007, 2010 or 2013 you can use this version. However, you only need to use it if you are running Excel 2013. It will run in Excel 2007 but special steps need to be taken if one wants to use their own personal logo feature. It will also run on several versions of Excel running on the MAC OS. I believe that Excel 8 on MAC has the same issues with logo placement as Excel 2007 on Windows. (This is currently not true. The App will NOT run on the MAC platform at all.) Send any comments or questions as to why it will run in some but not all of the Excel versions to Bill Gates please.

Additional information may be found in the file MC4JMRIVerN.NInfo.txt that accompanies each release of MC. This file and the other files required for each release of Manifest Creator can be found in their own page within this Website.

As stated above, there are two Excel versions of the App depending on what level of Excel you are using. The Table below describes this situation.

1.	MC4JMRI.xls	Excel 2000
		Excel 2007
		Excel 2010
2.	MC4JMRI.xlsm	Excel 2007
		(Optional)
		Excel 2010
		(Optional)
		Excel 2013
		(Mandatory)

HISTORY (Return)

The creation of MC came about via a very circuitous route. If all began when I was asked to an Operating Session at Bill Zastro's layout in Clare, Michigan. I was very new to operations in general but knew that I wanted to hold Operating Sessions in my then under construction layout. Bill used clipboards and hand drawn manifests. The orders on these manifests were also generated by hand and entered into the photocopied manifests. Being rather handy in the use of Microsoft Excel for generating forms, I felt that I could improve the hand designed manifest that Bill was using. I wanted to do this as a thank-you for attending the operating session. I was able to do this and the first version of MC was born. However, this was just a computer generated version of what Bill had done with paper and pencil. The orders on these manifests still were done by hand, not only the entering of the data but figuring what cars went where.

About this time I stumbled into JMRI Operations. I had been looking at Ship-It but the initial learning curve seemed very steep, the software seemed pricey, and I just wasn't sure if it would do what I wanted. After looking at JMRI Operations, I found that to begin with very rudimentary operations, the learning curve was almost non-existent. At the same time I felt that at the rudimentary level, these computer generated orders would be an improvement to doing them by hand. So I thought I would share this information with Bill as well.

I soon found that the original manifest that I had created using Excel would not function with the data generated by JMRI. So in the beginning, I reformatted the original Excel manifest and attempted to use the text output that was used to print the manifests in JMRI. Soon I began having discussions with Dan Boudreau and we decided that things would be much easier for MC if Dan were to output a CSV formatted file.

This was the beginning of what we have now. Having a CSV formatted file made the parsing process in Excel VBA, that was required, much easier that just reading the raw text file. So having started with Excel, it just seemed natural that I would use Visual Basic for Applications (VBA) within Excel, since I was only doing this for my friend Bill. There were several conversations on what items would be appropriate in the CSV file and Dan Boudreau finally came up with what we all have now. (See JMRI Operations documentation for details.) After a bit of work, I thought that this format and parsing of the CSV file might be of interest to others using JMRI. At this point I was unaware that so many JMRI users were non-PC/Windows users but since have found there are many that are not running on this platform. But the die had been cast.

My initial release was announced via the JMRI User Group and I found that there were some users that were interested in what Manifest Creator could do for them. The program has grown over the past years, mainly based upon user input which has been invaluable. Thank you to all that have contributed ideas. And a big THANK YOU to Dan Boudreau for all that he has done to make the MC workable. I also need to take time to recognize "*Inspector Dave*" as he was instrumental in establishing the link between JMRI and MC. There have been many many others that have contributed great ideas and I thank you all!

NOTE: It is interesting that the original Excel formatted manifest was never used for an actual operating session by Bill, and since then Bill has retired from the hobby. But I still thank him as he was the catalyst to the creation of the Manifest Creator. Thank you Bill Zastro!

INTRODUCTION (Return)

This application uses a CSV output file from JMRI. To use MC you must use a version of JMRI that allows the creation of CSV files as the output of JMRI Train Builds. The CSV output option is available in the JMRI Releases beginning with Version 2.12. MC uses this CSV file to generate a formatted manifest. Various examples have been stored or displayed on pages within this website. Others are shown in Appendix A, B, C, and D at the end of this document.

There are several files that are part of each release of MC. Only one of these files is used to create the manifest, while the others are documentation or sample manifests created with the specific Release or Version. When the screens were first created, a rather obscure font, AR JULIAN, was used. Although not absolutely necessary, it is strongly suggested that you install this font. The font file is included with other files that make up a MC Release. Refer to the instructions for your version of Windows or MAC for the font installation process.

FUNCTIONS AND FEATURES (Return)

MC began as a very minor application that simply formatted JMRI Train Build data from the CSV file into a more formalized manifest. Since then, thanks to input from many users, it has grown to have a significant number of functions and features also known as Preferences. As of Version 4.2, these Preferences have been expanded yet again to those listed below. Some of these will be explained in detail within it's own section. Below is a list of Preferences that are available with the most recent version of MC.

Preferences

- 1. User Logo on Manifest Header
- 2. Each Location separated from others

- 3. Pickups and Setouts side by side to reduce length of Manifest
- 4. Pickup Blocking
- 5. Print Comments Yes/No
- 6. Print Extended Car Comments (after the -) Yes/No
- 7. Print Extended Track Comments (after the -) Yes/No
- 8. Print Page Headings (other than first page) Yes/No
- 9. Print Loads or just "L" or "E"
- **10.** Print Multi-Line Comments
- 11. Set Page Breaks Yes/No
- 12. Include Times Yes/No
- 13. Set Lines per Page
- 14. User selectable Column Titles for PICKUPs and SETOUTs
- 15. Print MOVE Pickups and Setouts Side by Side
- **16.** User Selectable Colors for the following:
 - Pickup Car
 - Pickup Car Comment
 - Pickup Car Hazardous
 - Pickup Car Caboose / FRED Pickup Car Caboose / FRED Comment
 - . Pickup Loco
 - Pickup Loco Comment
 - Add Helper
 - Pickup Section Headings
 - Setout Car
 - Setout Car Comment
 - Setout Car Hazardous
 - Setout Car Caboose / FRED
 - Setout Car Caboose / FRED Comment
 - Setout Loco
 - Setout Loco Comment
 - **Remove Helper**
 - **Setout Section Headings**
 - Manifest Headings
 - Boarder Areas
 - Location Comments
 - Change Logo/Caboose/FRED
 - Blocking Route Comment
 - Move Indicator
 - No Work Locations
- 17. Direct Link from JMRI
- 18. User Selectable Printers by Train
- 19. Pickup Blocking
- 20. Fixed Width Font Yes/No And several more.

Each of these Preferences is set and stored on the Preferences Sheet and is reachable from the MC Welcome Screen.

WELCOME - THE MAIN MENU (Return)

The Welcome Screen or Main Menu controls all of the capabilities of MC. You simply click on a Button of your choice. The one you will use to build a manifest is [Create & Save Manifest]. Let's start with a manifest using the default Preferences. We will quickly get to describing these Preferences so that you may tailor the manifest to your liking.

	FEST CREATOR FOR JMRI VERSION 2.5 AS OF 02/20/13 LICK ONE OF THE BUTTONS	Version Number & Release Date
MANIFEST PREFERENCES	CREATE & SAVE MANIFEST PICKUP/SETOUT MANIFEST NAMES LOGO	Create Manifest Set Column Headir Set Manifest Logo
	Montar Colores RESET MANIEST FORM	Reset Manifest For
	EXIT PROGRAM	Exit Program

[Need an updated screen print.]

CREATE MANIFEST - MANUAL (Return)



This selection on the Welcome Screen allows you to generate a manifest from any CSV file that is generated from JMRI Train Build. MC will ask for the name of the CSV file that you would like to process. This is done through the normal Windows Open File dialog box. MC remembers where your files are located and will show all .csv files in the directory. Once you see the file that you would like to process, highlight it and click Open, or double click the file name. MC goes to work and will then generate your manifest. This manifest will optionally be displayed in Excel's Print Preview, and/or printed to your default printer, and/or create .xls(m) file with the same name as the CSV file you selected above. What MC does with the completed manifest is totally controlled by the Output Preferences discussed in the following section. It is possible, by setting Preferences in a certain way, to end up with no manifest. So be a bit careful when setting these Preferences.

IMPORTANT NOTE: Print Preview does not function properly in Excel 2013 (.xlsm). The problem is known but a solution has yet to be found.

If you do receive a preview of the manifest, you should not print the manifest using the Print (icon) option within this window. You should always select the Close (Icon) to exit Print

Preview. If you do want hardcopy print you need to set the appropriate Preference to YES. If you have set your Preferences so that you ask for a file to be created, MC will create the manifest file and save it to the same directory as your input file directory. When MC has finished performing the necessary actions, based upon your Preferences, it returns to the Welcome Screen awaiting your next command. If you asked MC to create a manifest file and wish to locate the manifest later, it has the same name as the CSV Input file but has an extension of .xls (Excel). This file will remain here (same directory as your input CSV file) until your next build for this particular train. This is the very basic operation of MC. It is quick and easy to do and generates formatted manifest as shown in Appendix A Default Preferences Example at the end of this document. To make things really interesting change some of the Preferences described below.

NOTE: If you have yet to generate a manifest in CSV format from JMRI, you should review it's documentation so that you have it's options set properly. It would be a good idea to make sure that you have everything working from the JMRI side and then attempt your first MC manifest.

MANIFEST PREFERENCES (Return)

MANIFEST PREFERENCES

Lets discuss so as to understand the various Preferences that are available for modifying the generated manifest output. All Preferences are found on the Preferences Worksheet (Tab) in the MC Excel Workbook [MC4JMRI.xls]. Click on the [Manifest Preferences] button on the Welcome Screen to reach this page. The following form will be displayed.

NOTE: You can ONLY modify Preferences using MC in Manual Mode.

	RENCES	MA	NI	FES	Г (RF	AT	OR	RETURN WELCO			
1012 101-10-100 esc								~ * * *	WELLA	ALL.		
1 4127												
							_					
			p	REFI	FRF	NCF	2		· · W.			
			-			ITCL	~					
				VERSION 2.	5 As OF	02/20/13		1				
J	MRI					//		•	IMRI			
								<u> </u>				
MANI	FEST DIRECT	ORT:										
MANIFEST	CREATOR	VERSION	2.5	DATE:	As OF 02/2	0/13						
	1	2	3	4	5	6	7	8	9	10		
2 F	11	12	13	14	15	16	17	18	19	20		
COLOR	21	22	23	24	25	26	27	28	29	30		
R R	31	32	33	34	35	36	37	38	39	40		
00	41	42	43	44	45	46	47	48	49	50		
-	51	52	53	54	55	56						
PU	LLS	TEXT	FILL	SAMPLE		SAMPLE	FILL	TEXT	CUTS			
	CAR-P1	1	2	P1		SI	2	1	S1-CAR			
	(CAR)-P2	1	2	P2		\$2	2		S2-COMMENY			
	ARDOUS-P3	3	2	P3		53	2		S 3-HAZARDOU			
CABOOS	E/FRED-P4	1	2	P4		S4	2		S4-CABOOSE/	FRED		
Conner	LOCO-P5	1	2	P5 P6		\$5	2		S5-LOCO	(1000)		
	(LOCO)-P6 HELPER-P7	1	2	P6 P7		56 57	2		S6-COMMENT S7-REMOVE			
	EADINGS-P8	1	2	PS		57	2		S7-REMOVE I	TELPER		
COMM(CAR		i	2	P9		59	2	•	S9-COMM(CAL	(FRED)		
	LEMENTS	TEXT	FILL	SAMPLE		35		IENTS INCL		,		
	T HEAD-FI	1	2	FI		RN, RC, T), STATUS LI				
BORDE	R AREA-F2	1	15	F2				LN, TL, TW				
MISCELI	ANEOUS	TEXT	FILL	SAMPLE			OU	TPUT OPTIC	ONS			
LOCATI	ON COM-MI	1	2	MI	PICKUP	BLOCKING	NO	PAG	E BREAKS	YES		
CHG. LOC	O/CAB-M2	1	2	M2	PRINT	COMMENTS	YES	INCL	UDE TIMES	YES		
CHANGE	CREW-M3	1	2	M3	EXT.	CAR DESC	YES	LINES	PER PAGE	66		
BL	OCKING-M4	1	2	M4	EXT.	TRK. DESC	YES	PRINT C	AR COLOR	YES		
ROUTE CO	MMENT-M5	1	2	M5		HEADINGS	YES		DTH FONT	YES		
	ICATOR-M6	1	46	M6		INT LOADS	YES	-	CAR INFO	YES		
0.00	WORK-M7	1	2	M7	2525	LINE DELIM	/*/	-	PT FONT	YES		
		-				PREVIEW	YES		RINT LINES	YES		
						HARDCOPY	NO	SAVE MAN		NO		

shot here)

There are four (4) sections within this form.

SECTION 1: (Return)

MANIFEST CREATOR VERSION: 2.5 DATE: As OF 02/20/13 (We need a new screen shot here)

The first section is used to track MC Version and Release Date information. The program keeps track of certain information here for use in generating the manifest.

SECTION 2: (Return)

-									No.	20141
	1	2	-	4	5	6	7	8	9	10
8 H	11	12	13	14	15	16	17	18	19	20
QĞ	21	22	23	24	25	26	27	28	29	30
0 H	31	32	33	34	35	36	37	38	39	40
00	41	42	43	44	45	46	47	48	49	50
	51	52	53	54	55	56				

This section is the Color Chart. This is used as a guide if you decide to modify any of the Color Preferences. This chart may be confusing at first. In this Chart, the number of the color is in either black or white while the actual color is the fill color surrounding the number. So number 1 is black, 2 is white, 3 is red, ...,. These colors are used to set the Text Color and the Fill Color of the various available Color Preferences. This will be explained below.

SECTION 3: (Return)

This section is used to set the Text Color and Fill Color for various types of records found in the CSV file. Remember: The Color Table above the Code Listing is provided so that you may pick the appropriate color number to select the desired color. The two values you will be

setting are the Text Color and the Fill Color.

This section contains three areas.

The first area deals with PICKUPS and SETOUTS (or PULLS and CUTS - Preference setting). (Return)

TEXT	FILL	SAMPLE
1	2	P1
1	2	P2
3	2	P3
1	2	P4
1	2	P5
1	2	P6
1	2	P7
1	2	P8
1	2	P9
TEXT	FILL	SAMPLE
	TEXT 1 1 1 1 1 1 1 1 1 1 TEXT	TEXT FILL 1 2 1 2 3 2 1 2 TEXT FILL

SAMPLE	FILL	TEXT	CUTS
S1	2	1	S1-CAR
S2	2	1	S2-COMMENY (CAR)
53	2	3	S3-HAZARDOUS
S4	2	1	S4-CABOOSE/FRED
\$5	2	1	S5-LOCO
S6	2	1	S6-COMMENT (LOCO)
\$7	2	1	S7-REMOVE HELPER
S8	2	1	S8-HEADINGS
59	2	1	S9-COMM(CAR/FRED)
	ELEM	ENTS INC	LUDED

If we look at the third line under PICKUPS (PULLS in this screen shot above) you will see the following:

Hazardous-P3 | 3 | 2 | P3

Hazardous is the Preference, P3 is the code that is displayed in the Sample area, 3 is the number of the Text Color, 2 is the number of the Fill Color, and the P3 shows what the output will look like. In this case all Pickup Hazardous Cars will print with Red Text and White Fill. (Text=3=Red, Fill=2=White). (The P is used to indicate PICKUP) Currently the same colors are set for Setouts but they could be different. You change these color settings by simply entering the Text Color Number value and the Fill Color Number value in the appropriate cell. The change in the corresponding Sample Cell will not be changed until you click on the [Update Preferences] Button at the top left of the screen. You may enter all changes at one time and then review the sample by clicking on the [Update Preferences] Button or you made do them one at a time. After you become familiar with changing these Preferences you may not need to see the sample. If you click the [Return To Welcome] Button at the top right of the screen, the Preferences will be updated and you will be returned to the Welcome Screen.

Feel free to play with these color settings. However, it is possible to set the same Text and Fill Color. I doubt if you would want to do this as the Text will blend in with the Fill making the Text unreadable. You can print some very colorful manifest by modifying these Text and Fill colors. Refer to Appendix B: Color Preferences Examples at the end of this document. NOTE: When changing any Preference you must exit the cell in which you made the change. You can do this by using the Tab Key or the Enter Key. If you do not do this, the Preference will not be changed as Excel does not update the cell until you move to another cell. MC comes with these Color Preferences pre-set. Theses 'default' values are show below. The 'P' is used to denote Pickups and the 'S' to denote Setouts.

PICKUP/PULL	DEFAULT SETTING	SETOUT/CUT	DEFAULT SETTING
Car-P1	Text=1 Fill = 2	Car-S1	Fill = 2 Text=1
Comment (Car)-P2	Text=1 Fill = 2	Comment (Car)-S2	Fill = 2 Text=1
Hazardous-P3	Text=3 Fill = 2	Hazardous-S3	Fill = 2 Text=3
Caboose/FRED-P4	Text=1 Fill = 2	Caboose/FRED-S4	Fill = 2 Text=1
Loco-P5	Text=1 Fill = 2	Loco-S5	Fill = 2 Text=1
Comment (Loco)-P6	Text=1 Fill = 2	Comment (Loco)-S6	Fill = 2 Text=1
Add Helper-P7	Text=1 Fill = 2	Add Helper-S7	Fill = 2 Text=1
Headings-P8	Text=1 Fill = 2	Headings-S8	Fill = 2 Text=1

Comment		Comment	5:11 - 2 Text-1	l
(Cab/FRED)-P9	Text=1 Fill = 2	(Cab/FRED)-S9	Fill = 2 Text=1	

NOTE: Be careful when setting the SETOUT Colors as for some reason I decided to reverse the Test and Fill Colors columns. Seemed like a good idea at the time.

The second area within Section 3 is FORM ELEMENTS which allows you to change colors of the various parts of the form. (Return)

FORM ELEMENTS	TEXT	FILL	SAMPLE	ELEMENTS INCLUDED
MANIFEST HEAD-F1	1	2	F1	RN, RC, TN, TC, VD, STATUS LINE
BORDER AREA-F2	1	15	F2	AT, DT, DTR, EDT, LN, TL, TW, NW, TT

As you can see in the Preferences Screen above, the Border Area is currently set to Text=1=Black Fill=15=Grey. You will then see a sample of the color combination. The ELEMENTS INCLUDED shown to the right of the FORM ELEMENTS indicates which of the Record Types in the CSV file will be controlled by this code. One line is for the Manifest Head-F1 and the other is for the Border Area-F2. (The F is used to indicate FORM)

It is up to you how you set these Options. They do make a significant difference in the output generated by MC. Refer to Appendix B: Color Preferences Examples at the end of this document. MC comes with these Form Element Preferences pre-set. These 'default' values are show below.

FORM ELEMENTS	DEFAULT SETTING	ELEMENTS INCLUDED
Manifest Header	Text=1 Fill = 2	RN, RC, TN, TC, VD, Status Line
Border Area	Text=1 Fill = 15	AT, DT, DTR, EDT, LN, TL, TW, NW, TT

The third area within Section 3 is MISCELLANEOUS, which allows you to change colors of miscellaneous items. There are seven (7) different Preferences that may be set in this area.

MISCELLANEOUS	TEXT	FILL	SAMPLE
LOCATION COM-MI	1	2	Mi
CHG. LOCO/CAB-M2	1	2	M2
CHANGE CREW-M3	1	2	M3
BLOCKING-M4	1	2	M4
ROUTE COMMENT-M5	1	2	M5
MOVE INDICATOR-M6	1	2	M6
NO WORK-M7	1	2	M7

.

Look at the line near the bottom of the Code List found in the MISCELLANEOUS area. It is as follows:

Move Indicator-M6 | 46 | 2 | M6

Move Indicator is the Preference, M6 is the code that is displayed in the Sample area, 46 is the Text Color, 2 is the Fill Color, and M6 is a Sample of this section of the manifest will look like. In this case all MOVE Cars will print with Orange (or whatever) Text and White Fill. (Text=46=Orange, Fill=2=White) (The M is used to indicate MISCELLANEOUS)

It is up to you how you set these Options. They do make a significant difference in the output generated by MC. Refer to Appendix B: Color Preferences Examples at the end of this document. MC comes with these Form Element Preferences pre-set. These 'default' values are show below.

PREFERENCE	DEFAULT		
	SETTINGS		
Location	Text=1 Fill = 2		
Comment-M1			
Change	Text=1 Fill = 2		
Loco/Caboose-M2			
Change Crew-M3	Text=1 Fill = 2		
Blocking-M4	Text=1 Fill = 2		
Route Comment-M5	Text=1 Fill = 2		
Movie Indicator-M6	Text=46 Fill = 2		
No Work-M7	Text=1 Fill = 2		

SECTION 4: (Return)

This section deals with OUTPUT OPTIONS and is the most recent addition to Preferences.

	OUTPUT OPTIONS					
PICKUP BLOCKING	YES	PAGE BREAKS	YES			
PRINT COMMENTS	YES	INCLUDE TIMES	YES			
EXT. CAR DESC	YES	LINES PER PAGE	66			
EXT. TRK. DESC	YES	PRINT CAR COLOR	YES			
PAGE HEADINGS	YES	FIXED WIDTH FONT	YES			
PRINT LOADS	YES	BOLD CAR INFO	YES			
MULTI-LINE DELIM	1-1	8 PT FONT	YES			
PRINT PREVIEW	YES	PRINT LINES	YES			
PRINT HARDCOPY	NO	SAVE MANIFEST FILE	NO			
PRINT CREW LINE	NO					

Many of these settings are YES or NO. Let's just look at a couple. The first one:

Pickup Blocking YES

Pickup Blocking is the Preference, YES is the current setting. This indicates that the manifest will include the Destination Location and Track so that when PICKingUP Cars one may Block them for easy SETtingOUT upon arrival at their destination. If you change this Preference to NO, this Blocking information will not be included on the manifest. See the manifest 'snippet' below.

2	"Location Comment for	r ABLE - This	is where the new LC should s	how up."		
PICKUPS			SETOUTS			
CAR	LOCATION	LOAD	CAR	LOCATION	LOAD	
AA R129 Reefer Black	A-D	E	Blocking	BAKER-BB		
H] AA F019 Flatcar Black	A-G	L	Blocking	BAKER-BB	3	
H] AA F015 Flatcar Black	A-G	E	Blocking	BAKER-BC InterChange		
AA T051 Tank Oil Black	A-A	E	Blocking	EAGLE-ED	6 <u>.</u>	
AA T059 Tank Oil Black	A-D	L	Blocking	FOX-FA	3	
H-HAZARDOUS!	NY	2m) V			48	

Blocking is the Destination Location and Track information and is shown in the SETOUTS area beside each pickup. NOTE: Since Blocking uses the SETOUTS area, setouts will not be printed in those lines and by nature will increase the length of the manifest.

Now let's look at another Option in the right column:

Fixed Width Font YES

Fixed Width is the Preference, YES is the current setting. This indicates that the car information on the manifest will be printed using a fixed width font (Courier New). You may change this by changing YES to NO (or NO to YES). This will then change the font to the default font (Arial) to Courier New (or visa versa). A brief explanation of the fixed width font issue. Fixed Width Font creates all letters with the same width. This allows all characters to align vertically. If you use the Fixed Width Font, MC will pad your Road Name if less that four (4) characters and Car Number if less than six (6) numbers with spaces. These individual areas of the Car Information will then appear as if they are left justified columns making the Car Number a bit easier to locate when working with a large manifest in a large yard. See the manifest 'snippet' below.

10		1	"Location Comment for	ABLE - This is when	e the new LC should show	v up."	
		PIC	KUPS	SETOUTS			
93	CAR		LOCATION LOAD		CAR	LOCATION	LOAD
AA	R129	Reefer Black	A-D	E			
AA [F019	Flatcar Black	A-G	L			
AA [F015	Flatcar Black	A-G	E			
AA	T051	Tank Oil Bla	A-A	E			
AA	T059	Tank Oil Bla	A-D	L			- 23

Train departs ABLE traveling West with 5 cars (2 Loads, 3 Empties), 220 feet, 225 tons - Departure Time is 00:00

As you see in the 'snippet' above, the Road Name, Car Number, and Car Information line up in columns. NOTE: This is not a particular good example as all of the Road Names and Car Numbers are the same length.

We also need to touch on the Multi-Line Delim, (multiple line comment delimiter). This one is a bit tricky as it involves changes within JMRI for it to function. You will see that the current delimiter is /*/ (you may change this to any value you prefer). When MC sees this particular character sequence within a JMRI Comment, it will treat it as a New Line command. This gives you the ability to have multiple line comments in MC from a single comment in JMRI.

Within JMRI you would insert these three characters, /*/, where you would like one comment line to stop and another to start. NOTE: You do not use this code at the beginning or end of the JMRI comment.

If your JMRI comment was something like:

"WOW This is a nice feature Thank you MC" (no quotes)

and you inserted the delimiter as set in MC so that the comment in JMRI looks like:

"WOW/*/This is a nice feature/*/Thank you MC", the MC output would be:

WOW
This is a nice feature
Thank you MC

Below is a listing of all Output Preference Codes and what they do:

- Pickup Blocking YES = Print, NO = Don't Print [This prints the Destination information beside the Pickup info so that cars may be blocked for Setout]
- Pickup Comments YES = Print, NO = Don't Print
- Extended Car Descriptions YES = Print, NO = Don't Print [This is the information

following the "-" that JMRI allows]

- Extended Track Information YES = Print, NO = Don't Print [This is the information following the "-" that JMRI allows]
- Page Headings YES = Print, NO = Don't Print [This controls if other than the first page prints the Manifest Header information]
- Print Loads YES = Print, NO = Don't Print [YES will print load information, NO will print only E or L. This Preference also affects the Column Widths of the various information on the manifest.] Also, see Output Fixed Width Font below.
- Multi-Line Delimiter = You may set this value to anything you wish. If you then include this in your Comments within JMRI, MC will treat it as a New Line command. Use this delimited BETWEEN Comments, not at the beginning of your JMRI Comment nor at the end. If you do not include this in your JMRI Comment, it has no effect. REMEMBER, the MC delimiter value must be what is used within your JMRI Comment or it will not function.
- Print Preview YES = Display Preview, NO = Do not Display Preview [This allows you to view the Manifest in Excel as it is built and provides the opportunity to print to any printer on your system]
- Print Hard Copy YES = Print, NO = Don't Print [This will generate a printed copy of the manifest without any intervention on your part. The output goes to your default system printer. This is a good choice if using the JMRI Link to MC.]
- Print Crew Line YES = Print, NO = Don't Print [This will generate a "fill-in-the-blank" line under the manifest header and before the first location. This will provide room for you to hand enter the names of the crew running this particular train/manifest.]
- Page Breaks YES = Do it, NO = Don't Do it [Tracks the number of lines output per page and inserts a Page Break (based upon Lines Per Page) so that a Location is not split on two pages] NOTE: This is in very early testing stages. If it does not work for you, I would like to know what your Preference settings are and have you send me the offending CSV File so that I may use this to test.
- Include Times Yes = Print, No = Don't Print [This controls whether Arrival and Departure Times are included on the manifest. For those not running by "the clock", these times are probably not necessary. The choice as always is yours.
- Lines Per Page This goes hand in hand with the Output Page Breaks. It may be worthwhile to tweak this number (if necessary) as it may affect how page breaks appear for your particular manifest. Once I have this nailed down, the value should remain constant and may be removed as a Preference in future releases. The current value of 66 seems to be working just fine.
- Print Car Color YES = Print, NO = Don't Print [Adds the Car Color on the end of the other CAR information]
- Fixed Width Font YES = Use, NO = Don't Use [Fixed Width Font will trigger aligning the Road Name, Car Number, and Car Type in columns within the CAR information and uses COURIER NEW font, which is a fixed width font. Normal (NO) uses the standard ARIAL font which is the default for MC]. Also see Output Load Descriptions above.
- Bold Car Information YES = Bold, NO = normal

- 8 Point Font YES = 8 Point, NO = 10 Point (Standard) [This is used to allow more data to show for each area of the manifest]. NOTE: The manifest is already squeezed to be one page wide, so changing the font may not have as much impact as one would think. Try it both ways and then decide which you prefer.
- Print Lines YES = Print, NO = Don't Print [This allows one to not print the individual lines between the rows of Pickups and Setouts. It is used to reduce the amount of ink usage and to reduce print time. Again try each and then decide.]
- Save Manifest File YES = Save, NO = Don't Save [If you only need the printed output, you could set this to NO. If you would like to save the generated output in case you might need it later, set to YES. The manifest will be saved in the same directory as the input file and will have the same name as the input file but will have an extension of .xls rather than .csv]

It is up to you how you set these Preferences. They do make a significant difference in the output generated by MC. Refer to Appendix C: Output Preferences Examples at the end of this document. MC comes with these Form Element Preferences pre-set. These 'default' values are show below.

PREFERENCE	DEFAULT SETTINGS	PREFERENCE	DEFAULT SETTINGS
Pickup Blocking	NO	Page Breaks	YES
Print Comments	YES	Include Times	YES
Extended Car Description	YES	Lines Per Page	66
Extended Track Description	YES	Print Car Color	YES
Page Headings	YES	Fixed Width Font	YES
Print Loads	YES	Bold Car Info	YES
Multi-Line Delimiter	/*/	8 Point Font	YES
Print Preview	YES	Print Lines	YES
Print Hard Copy	NO	Save Manifest File	NO
Print Crew Line	NO		

UPDATE PREFERENCES

Your Preference Settings changes will not appear in the Sample area unless you click on the [Update Preferences] Button. They are automatically updated when you select the [Return To Welcome] Button at the upper right on the Preferences Screen.

PICKUPS/SETOUTS MANIFEST NAMES (Return)

PICKUP/SETOUT MANIFEST NAMES

This selection on the Welcome Screen allows you to change the Names of the Headings for the Pickup and Setout areas of the Location box. Some might prefer PULLS and CUTS. When

you click this button you will be asked for the text that you would like to appear in this area. First you will enter the PICKUP text and then the SETOUT text. You may enter any characters you wish for these values. After entering the SETOUT value, you are returned to the Welcome Screen. The default values are PICKUPS and SETOUTS. See manifest 'snippet' below. When you change these values, they will be displayed in the Preferences Screen as part of the change so that you can check them.

	PICKUPS			SETOUTS	
CAR	LOCATION	LOAD	CAR	LOCATION	LOAD

Default Value set to PICKUPS and SETOUTS

PULLS			CUTS			
CAR	LOCATION	LOAD	CAR	LOCATION	LOAD	

Set to PULLS and CUTS

NOTE: You may also enter these values directly into the appropriate cells on the Preferences Screen.

MANIFEST LOGO (Return)



This selection allows you to choose any graphic file that you like to use as a logo for the manifest. When you click on this button you will be shown a normal Windows File Input Dialog Box asking for the name of the logo file you would like you use. Navigate until you find the logo of choice and Double Click (or select the file and Click Open). MC will do it's best to manipulate the graphic, whatever size, to make it fit in the header area of the manifest. Remember that if you have chosen a logo within JMRI, it will override this setting. NOTE: Wide and low height graphics will be manipulated but the result may run over in the manifest Railroad's name. The default value is 'blank' - or - use the default JMRI Logo.

Several sample Logos are show in Appendix D: Logo Selection Examples at the end of this document.

RESET MANIFEST FORM (Return)



There may be times when MC does not complete it's processing successfully. If this occurs it may leave the base manifest form in a mid-process status. If you see that subsequent manifests are not being generated properly, use [Reset Manifest Form] Button and the base form will be reset to it's default settings. This does not affect the Preferences settings but merely resets the form to it's original format. This could have been done automatically when MC begins but it takes some time to process and should only be required in very rare

circumstances.



This button seems rather self explanatory. When you are finished with MC, Click on the [Exit Program] Button to close the program.

FILES LOCATION AND PRINTERS SCREEN (Return)

The Files Tab is used to store information to various directories that may be used with MC. There are two sections to this page. The first stores the location of the input CSV Manifest files for your particular computer setup. These are unique to each user. When you first download and install MC4JMRI, you will need to run one test manifest, manually (not from JMRI link), to set these file directory locations. You should be warned if you do not have these files directories set when you first run MC4JMRI.

The second area is used to store any printers that might be specific to your system. This ONLY needs to be used if you have more that one print and wish to have your manifests print on different printers. Inspector Dave again asked for this enhancement. It has been added to JMRI and it is now passed to MC. However, due to the quirky way the Windows is set up, MC can not obtain the proper address that Windows needs in order to redirect to a different printer. This needs to be done manually and is a rather convoluted process on the MC side of things.

The first step is to open JMRI and select the Trains option from the Operations Menu.

Time	Build	Function	Name	Description	Route	Departs	Terminates	Current	Status	Action	Edit
0:00			A2F	a de acipitant	Able2Fox	ABLE	ABLE		Terminated 4/18/20	Move	Edit
00:00		Build	AbleIntAble	Set and Pickup at TRInt	ABLE to TR-IntChg	ABLE	ABLE		Terminated 4/22/20	Move	Edit
0:00		Build	IntChoPeak		TRPeak 2 TRInt	TR-Peak	TR-Peak		Build Failed	Report	Edit
00:00	V	Build	TimberRidgeShav	Shuffle cars from Peak to Inte	TRPeak 2 TRInt	TR-Peak	TR-Peak		Terminated 4/21/20	Move	Edit
7:00		Build	West Interchange	ABLE to Timber Int to ZED	ABLE to TR-IntChg	ABLE	ABLE		Build Failed	Report	Edit
00:00		Build	East Interchange	ZED to Timber Int to ABLE	ZED To TR-IntChg	ZED	ZED		Terminated 4/21/20	Move	Edit
Show (o		olumn head ime 🔘 Id	ing to sort) Options	🖌 Show All 🗌 Messages 🗌	Build Reports	Preview 🗌 Open		etion Move	e 🔾 Conductor 🔍 Ter	rminate 🔘 R	eset

Next select the Switch Lists button in the list of buttons at the bottom of the window. You will then be presented with the Switch Lists by Location window.

Window Help							
Location St	atus	Comment	12	Printer	Ş.		-
ABLE		Add	Canon MX430 series Printer			-	
BAKER		Add	Cano	n MX430 series l	Printer	-	
CHARLIE		Add	Cano	n MX430 series I	Printer	-	
DODGE		Add	Cano	n MX430 series l	Printer	-	
EAGLE		Add	Cano	n MX430 series l	Printer	-	
FOX		Add	Cano	n MX430 series l	Printer	-	
TR-IntChg		Add	Cano	Canon MX430 series Printer		•	
TR-Peak		Add	Canon MX430 serie		Printer	-	
Clear a	II.			Select all			
Switch List Options					12		
All Trains	🔲 Page	per Train	🗹 Real 1	Time	Save		
Preview Switch Lists	Pri	nt Switch Lists		Print Switch List	ts Changes		
	Genera	te csv Switch Lists	Gen	erate csv Switch	Lists Cha	naes	

The printer currently assigned is listed to the right of each Location. Select the Down Arrow beside the Printer box and select the printer of choice.

Window Help		0					- 6
Location	Status	Comment		Printer			ł
ABLE		Add		MX430 series P		-	
BAKER		Add		oft XPS Docume	ent Writer	-	
CHARLIE		Add	hp psc Fax	hp psc 1300 series Fax			
DODGE		Add	1000	Delete-ClickBoo	k Helper	-	
EAGLE		Add	CutePDF Writer ClickBook Printer			-	
		Add	Canon MX430 series Printer				
TR-IntChg		Add	Canon MX430 serie		s FAX		
TR-Peak		Add	Canon	MX430 series P	rinter	-	
C	lear all			Select all			
Switch List Options				I			
All Trains] Page per Train	🖌 Real Ti	me	Save		
Preview Switch List	S	Print Switch Lists	1	Print Switch List	s Changes		
10		enerate csv Switch Lists	Gene	rate csv Switch	Lists Char	Ides	

Once selected you will need to make a note of each of the printers you will be using. Or you may enter the Printer Name selected, as noted from the JMRI list in the Common Name field in the Printers section of MC4JMRI. Once you have done this, you may close JMRI and proceed below.

I have introduced an ancillary program that is used to determine the names of the printers that are know to your Windows system. Again, this is unique to each user. The name of this program is MC4PRNT.xls. This program was copied from the Internet and has a strange way of getting printers but once you do it, you won't need to do it again until you get a new printer or change where you want your manifest to print.

	MANI	FES	F CR	EATC	RETURN T WELCOM
All Litry					1. S. T. Martin
TAL	FIL	E LO	OCATI	ONS	TALL
IMRI		ERSION 3.1	6 AS OF 04/15/2	2013	IMRI
JIVIIN					UNIXI
FILE				LOCATION/N	AME
	IFEST INPUT FILE: TEST OUTPUT FILE:		MINIMRI OPERATION	s\csvManifests\	
100000000	NIFEST LOGO FILE:				
M	ANIFEST LOG FILE:				
	ILE OF FILES FILE:	C:\USERS\DA			
PINT			COMMON	NAME	EXTENSION
	PRINTER OI: PRINTER O2:		D1300 SERIES		ON NEOO: ON NEO1:
			3900 SERIES		ON NEO2:
	PRINTER 04:	\\SUE-PC\H	P PSc 1300 SERIES	S 100 100	ON NE14:
	PRINTER 05:	CANON MX4	30 SERIES PRINTER	R (COPY 2)	ON NEOS:
DAVE:					
and the second sec	03 ARE ARE TO		I BELIEVE.		
17.700.77.01.000.77	IS CASE SENSITIV	E			
DAN					
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				-	
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New College State State State State State State State			LOGOS\OR&WV-L	OGO.PNG	1
C:\USERS\DA	NUMP NODER ATIONS			www.rinu	
C:\USERS\DA	INJMRI\OPERATIONS\@	1	1		

Let's look at MC4PRNT. Find this program downloaded from the MC4JMRI directory in the Files section of the JMRI Users Group. (Saving it to your csvManifest directory is a logical location but that is not necessary) and run it. The figure below shows the screen when you first start MC4PRNT. You will need to answer the normal Enable Macros with a YES before you see this screen.

C	D	E
List Printers		
by Chip Pearson	chip@cpearson.com	
22-Sep-2012	www.cpearson.com/Excel/GetPrint	ers.aspx
List Printers		
Active Printer:	CutePDF Writer on CPW2:	
	3	

Once at this point you want to Left click on the List Printers button. You will see the following screen.

С	D	E	F	G	н	L.	J	K	L
List Printers									
y Chip Pearson	chip@cpearson.com								
22-Sep-201	2 www.cpearson.com/Excel/GetPri	nters.aspx							
List Printer	5								
ctive Printer:	CutePDF Writer on CPW2:								
			Use	rForm1				Ŀ	x
				Printers					
				List Printers		Make Activ	/e	Close	
				_	_	_			

You need to Left click on the newly displayed List Printers button to arrive at your final destination. Please see figure below.

С	D	E	F	G	н	1	J	к	
List Printers									
y Chip Pearson	chip@cpearson.com								
22-Sep-201	2 www.cpearson.com/Excel/GetPri	nters.aspx							
List Printer	'S								
ctive Printer:	CutePDF Writer on CPW2:								
			Useri	Form1					×
			F	Printers					
				Snagit 11 on Ne Canon MX430 s Canon MX430 s Canon MX430 s Canon MX430 s Canon MX430 s Canon MX430 s	eries Printe eries FAX o eries Printe eries Printe eries FAX (on Ne 13: er (Copy 1) on er (Copy 2) on Copy 1) on Ne	Ne08: e12:		•
				List Printers	1	Make Ac		Close	Ť

You may not be able to see the detail in the above figure but each on the printers ends with 'on Nenn' were nn is a two digit number. You need to copy or type this information into the right hand portion of the Files and Printers screen (above). It must be enter just as it is displayed in the MC4PRNT dialog box. These need to be entered to the right of the corresponding printer that you listed from JMRI. These must match - printer and "on" address if you would.

You may then Left click on Close in the MC4PRNT Dialog Box. Then close the MC4PRNT screen. It will ask if you want to save your changes. It does not matter how you answer this question. Once all that is accomplished, Left click on the Return To Welcome button on the Files and Printers screen and you should be ready to go.

CREATE MANIFEST - JMRI AUTO LINK (Return)

When using the JMRI Auto Link with MC, you will not be using any part of MC on your own. The program will be started from JMRI and will terminate upon completion. You may interact with MC if you have the Print Preview Preferences set to YES. This may be useful if you would like to print manifests to a specific printer other than your system's default printer. You will see the MC Welcome Screen flash on your computer screen and other unusual looking activities will take place. At this point in development, you should expect this as normal operating procedure. It is hoped that future releases of MC will eliminate much of this extra activity.

NOTE: YOU are NOT able to change Preferences when using the JMRI to MC Link. You must use Manual Mode. You must also run MC4JMRI.xls in Manual Mode the very first time it is used to set up the required directories.

You must adjust some settings in JMRI before the JMRI Auto Link will work properly. In the Trains window, select Tools > Options and then set the Check Box by Generate CSV Manifest in the Options section at the bottom of the Options screen and then click Save. Next select Tools > Setup Excel Program (Manifest Creator) and enter the name of the Excel file that JMRI should execute. This would be MC4JMRI.xls.

Two extra Check Boxes (Open and Run) appear in the Trains window when you select "Generate CSV Manifest" in the Options window. These two Check Boxes are mutually exclusive meaning you may select one or the other but not both. To trigger MC from JMRI, you must select the "RUN" Check Box. You then Build you train and once it completes successfully you will see RUN in the Function column by the train you just built. When you click on Run, JMRI will trigger MC and pass it the name of the CSV file to process. You may also select several trains to build and then use the Build button on the bottom of the window. All of the Trains successfully Built will now show Run in the Function column. Now you may click on the Run button on the bottom of the window and JMRI will trigger MC and pass it all of the CSV files that it should process.

The Link between JMRI and MC is a text file named MCFilesFile.txt. This name is to indicate that this is a "file of files", which is exactly what it is and is found in the csvManifests Sub-directory in operations directory within JMRI. JMRI creates (or updates) this "file of files" and adds the name(s) of the CSV manifest file(s) for MC to process before linking to MC. MC then looks for this "file of files", opens it if found, and processes all of the CSV manifest files that are currently in this "file of files". When MC has processed all the CSV manifest files in this "file of files", it will delete MCFilesFile.txt. The next time a Train Build is Run, JMRI will create MCFilesFile.txt again and add the CSV manifest file(s) that MC should process. If everything goes as planned, JMRI creates MCFilesFile.txt and MC deletes MCFilesFile.txt. If for some reason MC does not complete MCFilesFile.txt will not be deleted. The next time that Train Build is run, JMRI will add more CSV manifest files to the existing MCFilesFile.txt. This could easily be the same manifest as was already in

MCFilesFile.txt. This might make it appear that MC is in a loop as it will process the same file more than once. If MC does not end properly, by disappearing, then something is wrong and needs to be investigated. (That is probably when you send me a note!)

The OPEN button works in a similar fashion but will display the contents of the CSV file that was/will be sent to MC for processing. You could investigate records that appear to be causing MC issues or that do not appear as you would think.

NOTE: If you have not yet built a train with the Generate CSV Manifest option selected, you should build one train just so JMRI will create the csvManifests sub-directory in the Operations directory within JMRI on your system. You will also need this directory so that you can place the application, MC4JMRI.xls, in it's proper location.

The following paragraph is identical to that for generating a manifest manually. It refers to how you have set up your Preferences and they have the same impact on what MC generates whether it be generated manually or via the JMRI link.

If you do receive a preview look at the manifest, you can print the manifest using the Print (icon) option within this window (here you could print to any printer on your system). You may also select the Close (icon) if you do not wish to print a hardcopy from here. Remember that you still might receive a hardcopy again based upon your Preference settings. If you have set your Preferences so that you ask for a file to be created, MC will create the manifest file and save to the same directory as your input file directory. Unlike MC in manual mode, when MC has finished performing the necessary actions, based upon your Preferences, it terminates. If you asked for MC to create a manifest file and wish to locate the manifest later, it has the same name as the CSV Input file but has an extension of .xls (Excel). This file will remain here (same directory as your input CSV file) until your next build for this particular train. This is the very basic operation of MC. It is quick and easy to do and generates formatted manifest as shown in Appendix A, B, C, or D at the end of this document. To make things really interesting change some of the Preferences described above.

IN CLOSING (Return)

I suggest that you play with something like the Car-P1 under PICKUPs and Car-S1 under SETOUTs to see what the affect is. Just a warning: You can set the Text and Fill to the same color. However, I doubt if that would be a good choice as you will not be able to read the text. One other note: The COLOR CHART shows just the Color and the Color's numeric (internal to the program) value. The color in the case of the CODE CHART is ALWAYS displayed as the background color behind the number so that you may see more clearly what that Color numeric value will produce whether it be used for Text or Fill.

I also suggest that you change one Preference at a time in the OUTPUT OPTIONS Section, first generate a manifest with the current settings, look at the result using Print Preview, change one Preference, generate the same manifest, look at the result. Now pick the Preference setting that you like best for this particular OUTPUT OPTION. Print and keep your first manifest and go through the various OUTPUT OPTIONS comparing the result to your very first manifest.

ENJOY!

Questions, comments, or suggestions are welcomed and may be sent to:

Dan Foltz

DannyDont@GMail.Com

APPENDIX A: DEFAULT PREFERENCES EXAMPLE (Return)

EMRI			Manifest "L-SPOKR			EMRI
		~	Coolenal Rivera	ind KRID UP turn")
		Subart day	Lunde In South	ine - and departs at 03:16		
-	PIC	KUP \$	a more in append	and append as so, to	SETOUTS	1
C	AR	LOCATION	LOAD	CAR	LOCATION	LOAD
3 57 4056 GP2		Track 1	Diesel	Decoder Address 4038		
MLLE 97283 Cov	1 stl. Crange	Track 1 Track 1	g.steel	-	-	
GCHE 310159 Gen		Track 1	empty			-
UF 24501 Cab		Track 1	CDAN			
1-Locomotive 2-Caboose		5	9 - 19i	-117	80	- 50
(2-0-800058	Train depa	rts Spokane traveling East wit	h Saars (2 Loai	ts, 1 Empty), 278 feet, 378 tons - Dep	arture I'me is 03:16	
			0.0			
3		Th	e following tow	n(s) have No Work		
-			Yandley	jot 03:30 03:46		
			Hause	r 04:00		
-			Remse	17 04:16		
-			Fogon	pt 04:30		
		Sobeduled work in ?	KR into - Train a	rrives at 04:46 and departs at 04:67		
		"HELPFUL HINT	T B The KF D at	ea is on both sides of the asile.		
1				build your outbound trains there.		
		The arrivel track needs KUP \$	to be open for-	other trains that work the interchang	setouts	
-	AR	LOCATION	LOAD	CAR	LOCATION	LOAD
BUSE 124254 Box		Track 1	phging	CAR	LOCATION	LUAD
FGER 191720 Box		Track 1	ampty		3	3
20157 380396 Gon	-scrap Black	Track 1	empty			
	Soprerain Brown		GEALS			-
	Sop-grain Green	Track 4	grain			- 55
CNW 249150 Cos	Sop-grain Brown	Zrack 1	C.steel	-		-
JEFX 1995 Gen		Track 1	empty		2	81 7
2015# 511476 Gom		Track 1	empty			
20157 512030 Gom		Track 1	empty			-
TLOX 6822 Cov	Wop-grain Yallow k-kaolin White	Track 4	grain empty			-
ACAX 13001 148				7 Emplies), 864 feet, 1112 fons - De	natium Time is 0457	
		Additional Relationship Residentially				
26		Th	e following tow	n(s) have No Work		
			KR Ea	st 06:12		

KUP 5 LOCATION Digita service Digita		t sloi	CAR Decoder #10 Decoder #10	ETOUTS LOCATION Finish 2 Finish 2	LOAD
LOCATION Engine service Engine service Ecsft Paper	LOAD Disasel Disasel empty empty empty paper paper empty empty	t sloi	h - and departs at 06:00 CAR Decoder \$10 Decoder \$20 WC 21:549 Box KC Marcon	LOCATION	LOAD
LOCATION Engine service Engine service Ecsft Paper	LOAD Disesal Disesal septy septy septy septy paper paper septy	M	CAR CAR Decoder \$10 Decoder \$10 WC 21549 Box EC Marson	LOCATION	LOAD
LOCATION Engine service Engine service Ecsft Paper	LOAD Disesal Disesal septy septy septy septy paper paper septy	M	CAR CAR Decoder \$10 Decoder \$10 WC 21549 Box EC Marson	LOCATION	LOAD
LOCATION Engine service Engine service Ecaft Paper	Dissel Dissel septy septy septy septy paper paper septy	MM	CAR Decoder #10 Decoder #10 WC 21549 Box EC Marcon	LOCATION	LOAD
Engine service Engine service Eraft Paper	Dissel Dissel septy septy septy septy paper paper septy	MM	Decoder \$10 Decoder \$10 MC 21549 Box KC Marbon	Finish 2	LUAD
Engine service Eraft Paper	Diesel empty empty empty empty paper paper empty	M	Decoder \$10 WC 21549 Box HC Marcon		
	empty empty empty paper paper empty	M	NC 21549 Box HC Marbon NS 655319 Box HC Brown		
dff mpot	empty empty empty paper paper empty		NS 655319 Box #C Brown		empty
	embrit beber embrit embrit				empty
	empty paper paper				1
	paper paper smpty				
	empty	-			
		-			-
		1			1
	empty	1			
	empty				
	empty.	-			
	papar	1		-	-
	empty.				
	empty				1
		-			
	empty.	_	ι	1	-1
KUP \$	overflow cars				2
	1000 T 1000 T 1000	1		ETOUTS	
LOCATION	LOAD		CAR	LOCATION	LOAD
LOCATION Inbounds-1	espty		CAR CAR ACEX 51824 Coveprash White	LOCATION	angity
			CAR CAR ACEX 51824 Coveprash White	LOCATION	
	empty v.chips		CAR CAR ACTK 51924 CovEoprash White CH 174221 Woodchip 21um CH 174224 Woodchip 21um HILH 276421 Woodchip 21um	LOCATION	
	empty v.chips v.chips v.chips v.chips		CAR ACTX 51524 Covepymash White CH 174221 Woodchip Blue CH 174224 Woodchip Blue HILM 275141 Woodchip Brown MILM 275141 Woodchip Brown	LOCATION	empty empty empty paper
	w.chips w.chips w.chips w.chips w.chips w.chips		S CAR ALTX 51824 CovExpresh White CH 174221 Woodchip Blue CH 174224 Woodchip Blue HILH 176141 Woodchip Brown BEST 712186 Box Brown BEST 712186 Box Brown	LOCATION	empty empty empty
	empty v.chips v.chips v.chips v.chips	M	CAR ACTX 51524 Covepymash White CH 174221 Woodchip Blue CH 174224 Woodchip Blue HILM 275141 Woodchip Brown MILM 275141 Woodchip Brown	LOCATION	empty empty empty paper
	empty v.chips v.chips v.chips v.chips sand kft.pape kft.pape	M	CAR ACTX 51224 Coverpresh Maite GH 314223 Woodship Blow GH 314224 Woodship Blow HEIM 715124 Woodship Blow HEIM 715124 Bootship Blow HEIM 715124 Bas Blow FT 717124 Bas K G Boom 7024 JO2255 Techtpop Bloch GAC 3143 Coverpresh Carey GAC 3143 Coverpresh Carey	LOCATION	expty expty expty paper paper expty expty expty
	expty v.chips v.chips v.chips v.chips v.chips aard kft.paps kft.paps	M	CAR LEX 51224 Coverpresh thits Of 14221 Wookhy Blow Of 14221 Wookhy Blow HILH 176145 Wookhy Blow HILH 176145 Wookhy Brown BUT 71397 Bas Brown DIT 71397 Bas Brown DIT 71397 Bas Brown DIT 8000 State Coverpresh Coverpresh Coverpresh Dick 2005 Coverpresh Coverpresh Dick 2005 Coverpresh Coverpresh	LOCATION	empty empty empty paper empty empty empty
	empty v.chips v.chips v.chips v.chips sand kft.pape kft.pape	M	CAR LETA 3124 Crivity-rank Multe WH 37423 Woothing 20an WH 37423 Woothing 20an Hild 27614 Moothing 20an MIST 71245 Bas & Common MIST 71214 Bas & Common MIST 7014	LOCATION	espty espty espty espty espty espty espty espty espty
	empty v.chips v.chips v.chips v.chips kft.paps kft.paps kft.paps	M	CAR LETA 3124 Crivity-rank Multe OF 314221 Wooth by 23an Diff 314221 Wooth by 23an LEI 275141 Wooth by 23an LEI 275141 Boot Brown BRT 71214 Boot Brown BRT 71214 Boot Brown BRT 71214 Boot Brown DKS 3145 Crivity-rank Cary DKS 2005 Crivity-rank Cary DKE 2005 Crivity-rank Cary DKE 21005 Crivity-rank Cary	LOCATION	empty empty empty paper empty empty empty
	empty v.chips v.chips v.chips v.chips sand kft.pape kft.pape kft.pape kft.pape puip puip	M	3 3 CAR LCEX 51242 Credity muth Notice 1 LCEX 51242 Credity Allowing Ellow 10 10/2124 Monthing Ellow EXECT 10005 Execution 2 EXECT 10005 Execution 2 <td>LOCATION</td> <td>expty expty expty paper paper paper expty expty expty paper paper paper expty paper paper paper expty</td>	LOCATION	expty expty expty paper paper paper expty expty expty paper paper paper expty paper paper paper expty
	empty v.chips v.chips v.chips v.chips v.chips said kft.pape kft.pape kft.pape kft.pape kft.pape kft.pape pulp pulp pulp	M	3 CAR ACT 1124 Contegrath Rute OF 17422 Nothing Bine OF 17422 Nothing Bine OF 17422 Nothing Bine Diff 71114 Bas Zoom Diff 71114 B	LOCATION	espty espty espty paper paper paper espty espty paper paper paper espty espty espty espty espty espty espty
	empty v.chips v.chips v.chips v.chips sand kft.pape kft.pape kft.pape kft.pape puip puip	M	CA CAU Consequence CAU Ca	LOCATION Power plant Elymph	engity engity engity paper paper engity engity engity paper paper paper engity paper paper paper paper paper
	empty v.chips v.chips v.chips v.chips v.chips said kft.pape kft.pape kft.pape kft.pape kft.pape kft.pape pulp pulp pulp	M	3 CAR ACT 1124 Contegrath Rute OF 17422 Nothing Bine OF 17422 Nothing Bine OF 17422 Nothing Bine Diff 71114 Bas Zoom Diff 71114 B	LOCATION Power plant Elymph	espty espty espty paper paper paper espty espty paper paper paper espty espty espty espty espty espty espty
	Bohed used work. "Potiation finis?	Polytic for the second	press weby weby weby weby Polebh frewling Bast with 18 cers (4 Loads, 8x8-ed uled work in Troy 301-Train an	investion investion investory investory investory investory	paper empty empty

The Manifest Header provides several pieces of information. 1: The Railroad Name (BNSF Kootenai River sub). 2. The Train Name (Manifest for 1000). The Train 3. Manifest Name (L-SPOKRSPO (UP)). 4. The Date and Time the Manifest was generated by JMRI (Validated on 10/7/2000 22:00). 5. The Default Manifest Logo on the Left and Right of the Manifest Header. There are a couple of additional items of interest on this Manifest. First, this is just the first page of a multi page manifest. Second, notice that MC automatically generated a comment for the Loco and Caboose. Also notice the Route Comment just under the Manifest Header (Kootenai River and KRID UP turn). There is also a **Route Location Comment** The Manifest Header provides several pieces of information. 1: The Railroad Name (BNSF Kootenai River sub). 2. The Train Name (Manifest for 803). 3. The Train Manifest Name (Potlatch Mill job). 4. The Date and Time the Manifest was generated by JMRI (Validated on 2/4/2000 21:14). 5. The Default Manifest Logo on the Left and Right of the Manifest Header. There are several Additional items of interest on this Manifest. First, this is just the first page of a multi-page manifest. Second, notice that MC automatically generated a comment for the Loco and Caboose. Third, there is one Hazardous Car, this is denoted by the text in red, the [H] beside the car, and the [H] Hazardous message in the comments area. Fourth, there are at KR intg. This happens to multi-line utilize the comment feature of MC. Line 1: HELPFUL HINTS! The KFID area is on both sides of the asile. Line 2: Work the tie plant first so build vou can vour outbound trains there. Line 3: The arrival track needs to be open for other trains that work the interchange. This comment would be entered in JMRI as follows: HELPFUL HINTS! The KFID area is on both sides of the asile./*/Work the tie plant first so you can build your outbound trains there./*/The arrival track needs to be open for other trains that work the *interchange.* Notice the use of the /*/, MC's multi-line delimiter. Using this method. each comment in JMRI can be one to many lines in MC. Lastly, notice the section listing the Locations that are passed along the route with no work.

some cars that are to MOVE from one spot in a location to another spot in the same location. These are denoted by the M between the **Pickups** (PULLS) and Setouts (CUTS). Also notice the **Route Comment just under** Header the Manifest (Potlatch Mill work). There is also a Route Location Comment at Troy jct (Potlatch finish overflow cars can be spotted on either track 1 or 2).

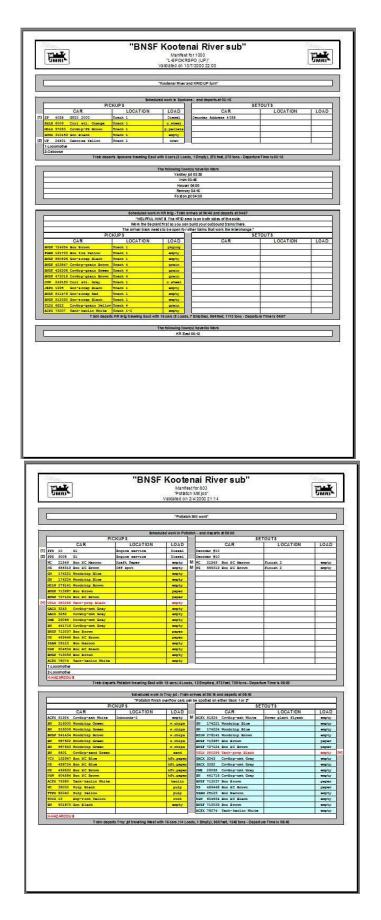
APPENDIX B: COLOR PREFERENCES EXAMPLES (Return)

Using the same two CSV File as in Appendix A, lets change two of the Color Preferences, namely Pickup Car Color and Setout Car Color. The results appear below. First a look at the Preference Settings.

PICKUPS	TEXT	FILL	SAMPLE
CAR-P1	1	6	P1
COMMENT (CAR)-P2	1	2	P2
HAZARDOUS-P3	3	2	P3
CABOOSE/FRED-P4	1	2	P4
Loco-P5	1	2	P5
COMMENT (LOCO)-P6	1	2	P6
ADD HELPER-P7	1	2	P7
HEADINGS-P8	1	2	P8
COMM(CAR/FRED)-P9	1	2	P9

SAMPLE	FILL	TEXT	SETOUTS
S1	34	1	S1-CAR
S2	2	1	S2-COMMENY (CAR)
53	2	3	S 3-HAZARDOUS
54	2	1	S4-CABOOSE/FRED
S 5	2	1	S5-LOCO
56	2	1	S6-COMMENT (LOCO)
\$7	2	1	S7-REMOVE HELPER
58	2	1	S8-HEADINGS
S 9	2	1	S9-COMM(CAR/FRED)

Change to Car Color Preferences PICKUP - Text=1=Black Fill=6=Yellow



This is the same Manifest as the Manifest with Default Settings above for Train 1000. The only

This is the same Manifest as the Manifest with Default Settings above for difference here is that the Color Preferences for PICKUPs and SETOUTs have been changed. The difference is obvious. Remember this is just the first page of a Multi-Page manifest so you do not see any SETOUTs.

803. Train The only difference here is that the Preferences Color for **PICKUPs and SETOUTs have** been changed. The difference is obvious. Here there are some SETOUTs with their appropriate color as set in the Color Preferences. Notice that the Loco, Move, and Hazardous entries are correct per their Color Preferences.

Using the same two CSV File as in Appendix A, lets change one of the Form Color Preferences, namely Border Area. The results appear below. First a look at the Preference Settings.

CONTRACTACINED J-F 7		4		39 Z I 37-COTPI(CAR/IRED)
FORM ELEMENTS	TEXT	FILL	SAMPLE	ELEMENTS INCLUDED
MANIFEST HEAD-F1	1	2	Fl	RN, RC, TN, TC, VD, STATUS LINE
BORDER AREA-F2	3	40	F2	AT, DT, DTR, EDT, LN, TL, TW, NW, TT
		2		

Change to Border Area Preferences - Text=3=RED Fill=40=Tan

Notices File and the file an				Manifer "L-SPOK	st ft RS	ai River sub" IF 1000 PO (UP)" 1/2000 22:00		E MRI	
Beached work in (process: well exercised initial initialininitialininitalianinitial initial initial initial initialia initi	_				_				
PECKUPS SETOUTS 10 AR LOCATION LOAD 11 AR Location Transit Device 12 AR LOCATION LOAD 14 AR Location Location 14 AR Location Location 14 AR Location Location 14 Location Location Location 14 Transit Location Location Location 14 Transit Location Location Location 14 Transit Location Location Location 14 Location Location Location Location 14 Location Locati		(Kootenal River	and	s KRIDUP turn"			
PECKUPS SETOUTS 10 AR LOCATION LOAD 11 AR Location Transit Device 12 AR LOCATION LOAD 14 AR Location Location 14 AR Location Location 14 AR Location Location 14 Location Location Location 14 Transit Location Location Location 14 Transit Location Location Location 14 Transit Location Location Location 14 Location Location Location Location 14 Location Locati	_								
10 print pr		PIC	KUP \$	d work in Tpo			OUTS	20	
bit							LOCATION	LOAD	
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This is the same Manifest as the Manifest with Default Settings above for Train 1000. The only difference here is that the Form Preferences for Border Area have been changed. The difference is obvious.

This is the same Manifest as the Manifest with Default Settings above for Train 803. The only difference here is that the Form Preferences for Border Area have been changed. The difference is obvious.

Now let's combine to two changes that we made. One for the Car PICKUP/SETOUT Colors and two for the Border Area Colors Using the same two CSV File as in Appendix A, but with both changes to Preferences. The results appear below. Review the Preference Settings for the previous examples to check the settings.

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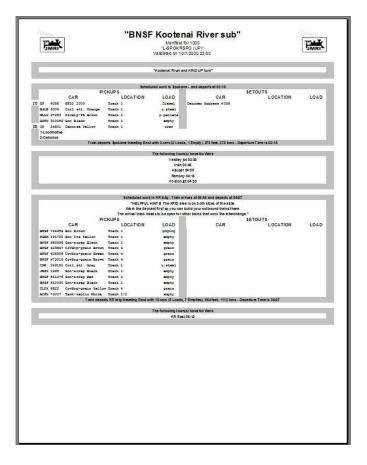
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combinations. In most cases, the default values will suffice.

APPENDIX C: OUTPUT PREFERENCES EXAMPLES (Return)

Using the same two CSV Files as in Appendix A, lets change one of the Output Options Preferences, namely Print Lines. Let's set the Print Lines to NO. The results appear below. First a look at the Preference Settings.

	OUTPUT OPTIONS						
PICKUP BLOCKING	YES	PAGE BREAKS	YES				
PRINT COMMENTS	YES	INCLUDE TIMES	YES				
EXT. CAR DESC	YES	LINES PER PAGE	66				
EXT. TRK. DESC	YES	PRINT CAR COLOR	YES				
PAGE HEADINGS	YES	FIXED WIDTH FONT	YES				
PRINT LOADS	YES	BOLD CAR INFO	YES				
MULTI-LINE DELIM	1-1	8 PT FONT	YES				
PRINT PREVIEW	YES	PRINT LINES	YES				
PRINT HARDCOPY	NO	SAVE MANIFEST FILE	NO				
PRINT CREW LINE	NO						



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This Manifest is identical to that in Appendix A except that the Output Options Preference No Lines is changed from YES to NO. The difference is obvious. The major reason for this Preference is to reduce ink usage and print time.

This Manifest is identical to that in Appendix A except that the Output Options Preference No Lines is changed from YES to NO. The difference is obvious. The major reason for this Preference is to reduce ink usage and print time.

APPENDIX D: LOGO SELECTION EXAMPLES (Return)

Using the same two CSV Files as in Appendix A, lets change the Logo File Setting. The results appear below. First a look at the Preference Settings.

FILE TYPE	FILE LOCATION/NAME
CSV MANIFEST INPUT FILE:	
MANIFEST OUTPUT FILE:	
MANIFEST LOGO FILE:	C:\Users\Dan\JMRI\operations\csvManifests\Logos\BMWLogo.jpg
MANIFEST LOG FILE:	
CSV FILE OF FILES FILE:	

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	MSF 512030 Gon-scrap Black	Track 1	angety'			
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14	CFX 75007 Tank-kablin White		empty Scars (Silos)	Is,7 Empties), 964feet, 1113 tons - Depart	ture Time is 6457	
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Using the same CSV File seen as the first Manifest in Appendix A, lets change the Logo File Setting to a different Logo file. The results appear below. First a look at the Preference Settings.

FILE TYPE	FILE LOCATION/NAME
CSV MANIFEST INPUT FILE:	
MANIFEST OUTPUT FILE:	
MANIFEST LOGO FILE:	C:\Users\Dan\JMRI\operations\csvManifests\Logos\M&SELogo.bmp
MANIFEST LOG FILE:	
CSV FILE OF FILES FILE:	

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You may also set the Logo File Setting in JMRI and it becomes part of the CSV Manifest file. If MC sees a Logo record in the file, it will override all other logo settings and use the one specified in the CSV file. If that logo cannot be found, the default logo will be used.

NOTE: If you are using Excel 2007 in Windows, MC will not handle logos. This is due to some decision made in Redmond, Washington, where Bill Gates and his team reside. For some reason they decided to handle the massaging of graphic files in this version differently that in previous version and in newer versions. I think they might have found the error of their ways. If you do want to use your own logo on your manifests, you can do it. At this point it would be best to send me a note and I will work through it with you.

APPENDIX E: ADDITIONAL USER SUGGESTED MANIFEST

FORMAT (Return)

Thanks to user, "*Steve Davis*", MC will soon come in a different flavor. The manifest below is a rendering of what this manifest will look like. The concept here is that the manifest can be folded in half, with Pickups and Setouts on the same side of each half. This manifest will then fit neatly in a shirt pocket or pants back pocket. This will free up another hand to use for running the railroad. This is currently under development. An announcement will me made when this new format is available. It is hoped that the same Preferences that come with the current MC will be available for this new format. There will be a few exceptions due to the half page concept as in certain situations, MC uses both sides of the form for the same car. Blocking and Car Moves are two examples.

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User Suggested Form from "Steve Davis"

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