Timetable Clinic Handout

Formula cheat sheet:

Start time formula
　　　　This assumes that you have named a cell **start_time** on your spreadsheet. Only used once for the **first** cell of a train's schedule.

=TIME(HOUR(start_time),(MINUTE(start_time) +0),0)

Hour of start_time	Minute of start_time	Adjustment	No Seconds

Location time formula
　　　　This assumes that you have named a cell **start_time** on your spreadsheet. Used for each location of a train's schedule.

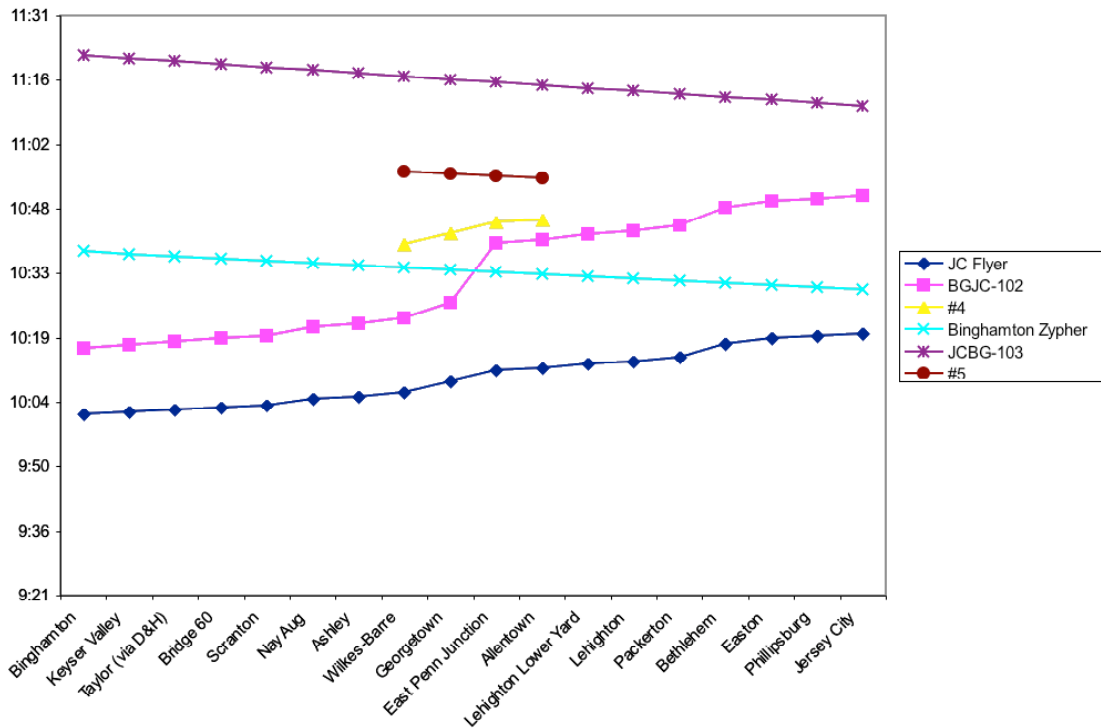=TIME(HOUR(B10),MINUTE(B10),(SECOND(B10)+(INT((3600/B$8)*1.5))))

Hour of Cell B10	Minute of Cell B10	Second of Cell B10	3600 divided by Cell B8 (trains speed) ($ forces it to always be row 8 no matter what column)	multiplied by scale miles or "smiles"

The calculation (INT((3600/B$8)*1.5))

　　　3600　-> number of seconds in one hour
　　　B$8　-> train's speed in miles per hour
　　　1.5　　-> the number of scale miles "smiles" between the two locations
　　　　　　　　Scale Mile Lengths -> HO-6 ft, N-3 ft, O-1.5 feet
　　　INT　-> the Integer of the number (whole number)

　　　3600/B$8　　　　　　-> the time it would take this train to move 1 mile in seconds
　　　(3600/B$8)*1.5　　　-> the number of seconds it would take this train to move 1.5 "smiles"
　　　INT((3600/B$8)*1.5) -> the whole number of seconds.

start time		EAST	(read down v)		start time		WEST	(read up ^)	
10:02						10:02			

EAST

number		JC Flyer	BGJC-102	#4
type		passenger	mixed frght	passenger
speed	45	60	45	60
Binghamton	10:02	10:02	10:17	
Keyser Valley	10:02	10:02	10:17	
Taylor (via D&H)	10:03	10:03	10:18	
Bridge 60	10:04	10:03	10:19	
Scranton	10:04	10:04	10:19	
Nay Aug	10:06	10:05	10:21	
Ashley	10:07	10:06	10:22	
Wilkes-Barre	10:08	10:07	10:23	10:40
Georgetown	10:12	10:09	10:27	10:42
East Penn Junction	10:15	10:12	10:40	10:45
Allentown	10:16	10:12	10:41	10:45
Lehighton Lower Yard	10:17	10:13	10:42	
Lehighton	10:18	10:14	10:43	
Packerton	10:19	10:15	10:44	
Bethlehem	10:23	10:18	10:48	
Easton	10:24	10:19	10:49	
Phillipsburg	10:25	10:19	10:50	
Jersey City	10:26	10:20	10:51	

WEST

number		Binghamton Zypher	JCBG-103	#5
type		passenger	mixed freight	pass
speed	45	60	45	60
Binghamton	10:13	10:38	11:22	
Keyser Valley	10:12	10:38	11:21	
Taylor	10:12	10:37	11:21	
Bridge 60	10:11	10:37	11:20	
Scranton	10:10	10:36	11:19	
Nay Aug	10:10	10:36	11:19	
Ashley	10:09	10:35	11:18	
Wilkes-Barre	10:08	10:35	11:17	10:56
Georgetown	10:08	10:34	11:17	10:56
East Penn Junction	10:07	10:34	11:16	10:55
Allentown	10:06	10:33	11:15	10:55
Lehighton Lower Yard	10:06	10:33	11:15	
Lehighton	10:05	10:32	11:14	
Packerton	10:04	10:32	11:13	
Bethlehem	10:04	10:31	11:13	
Easton	10:03	10:31	11:12	
Phillipsburg	10:02	10:30	11:11	
Jersey City	10:02	10:30	11:11	

Here's the final Timetable and Graph of the timetable. It has the conflicts adjusted as you can see from the large bump in the purple line (BGJC-102 schedule).

Copies of the excel files and the full clinic text can be found online at http://www.gardenstatecentral.com/ Click on the Tips/Tricks button and choose the Timetable Clinic.

I'll also put the Garden State Central, Dave Albertson and Rick Spano schedules to give you some more ideas.