

Daily Log Summary for Proton Run from March to July, 1994

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March 1994

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Brookhaven National Laboratory

U.S. Department of Energy

USDOE Office of Science (SC)

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AGS Complex Machine Studies (AGS Studies Report No. 320) Daily Log Summary for Proton Run from March to July, 1994	
Study Period:	March - July, 1994
Participants:	Main Control Room Staff
Principals:	K. Zeno and B. Tamminga
Reported by:	E. Bleser
Machine:	AGS Proton Complex
Aim:	To make a daily record of the machine performance.

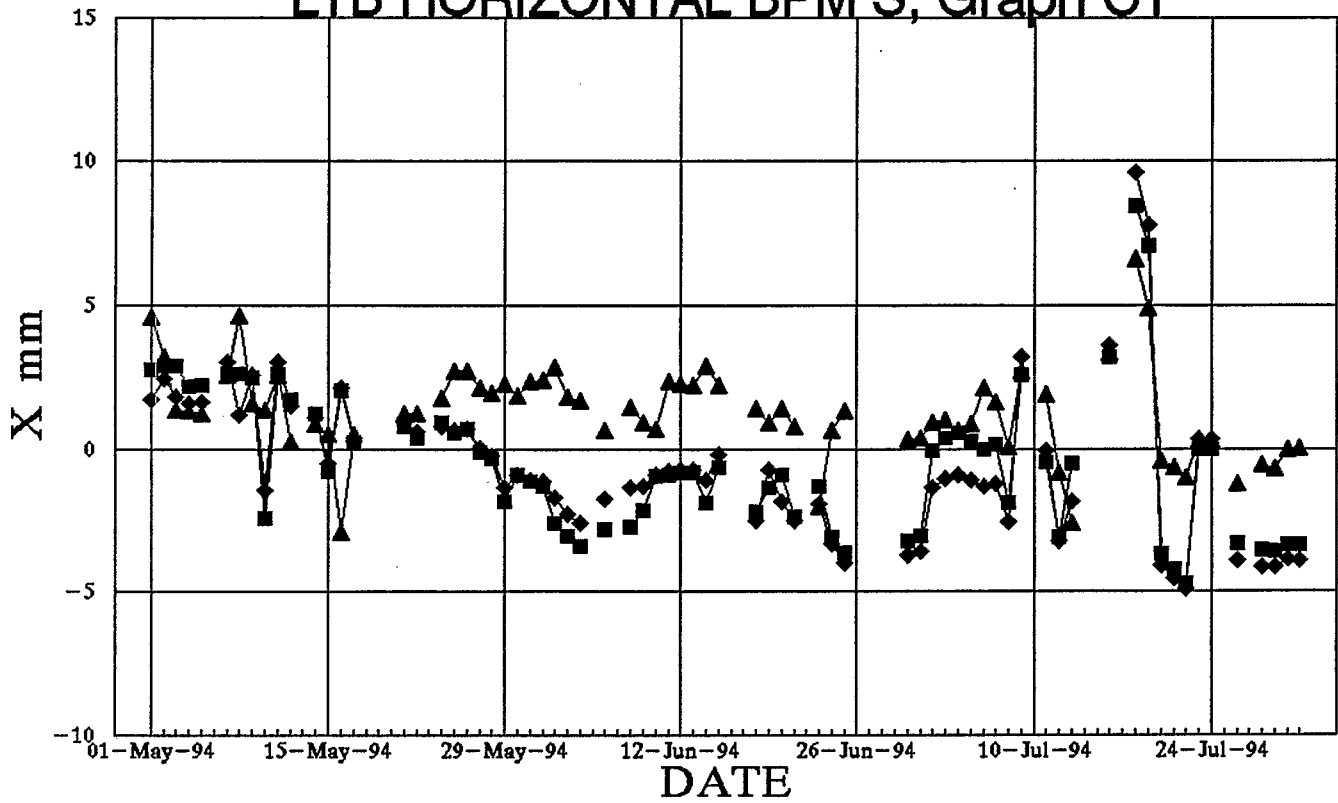
Summary

Each morning, the Main Control Room staff records the "morning numbers" describing the performance of the beam. This note presents without comment 36 graphs displaying the data accumulated during the last three months of the 1994 proton run. (Comment is plainly called for and will be forthcoming.) This data is available for anyone to analyze. Subsequent notes will deal with establishing limits for the parameters for the 1995 run and with extracting some physics from this data.

Files

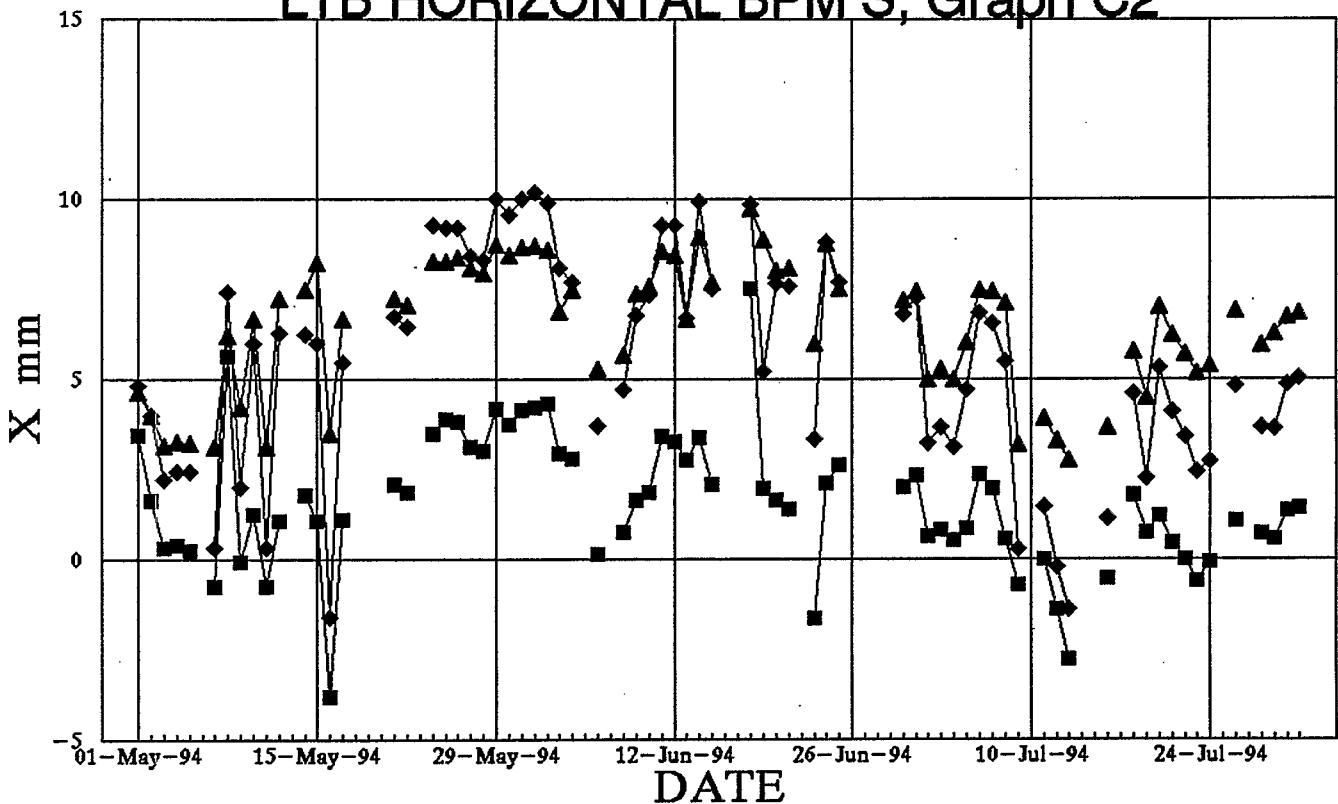
The data is entered into a LOTUS worksheet. The backup of the original worksheet is stored under the name DAILYLOG.WK3 in the root directory of the PC in the center of the Control Room. For this report, this file was rearranged, some obvious errors were corrected and the appended graphs were prepared. The resulting file is stored under the name DL94.WK3 in the root directory of the Control Room PC. People working with the data should use a copy of this file. For the 1995 run, we have prepared a file, DL95.WK3, similar to DL94.WK3. As the data is entered each morning into DL95.WK3, graphs similar to those in this report will be generated automatically.

LTB HORIZONTAL BPM'S; Graph C1



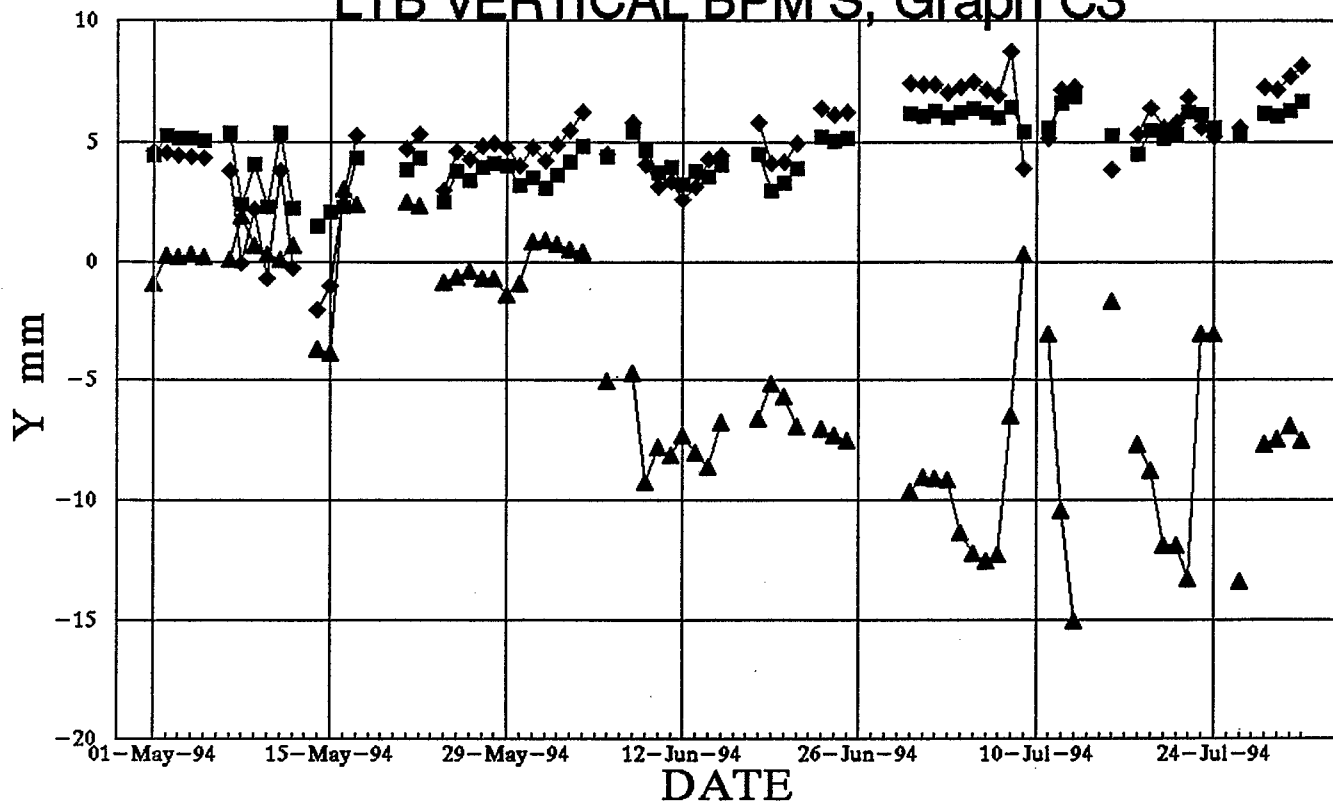
■ BPM019 ◆ BPM027 ▲ BPM066

LTB HORIZONTAL BPM'S; Graph C2



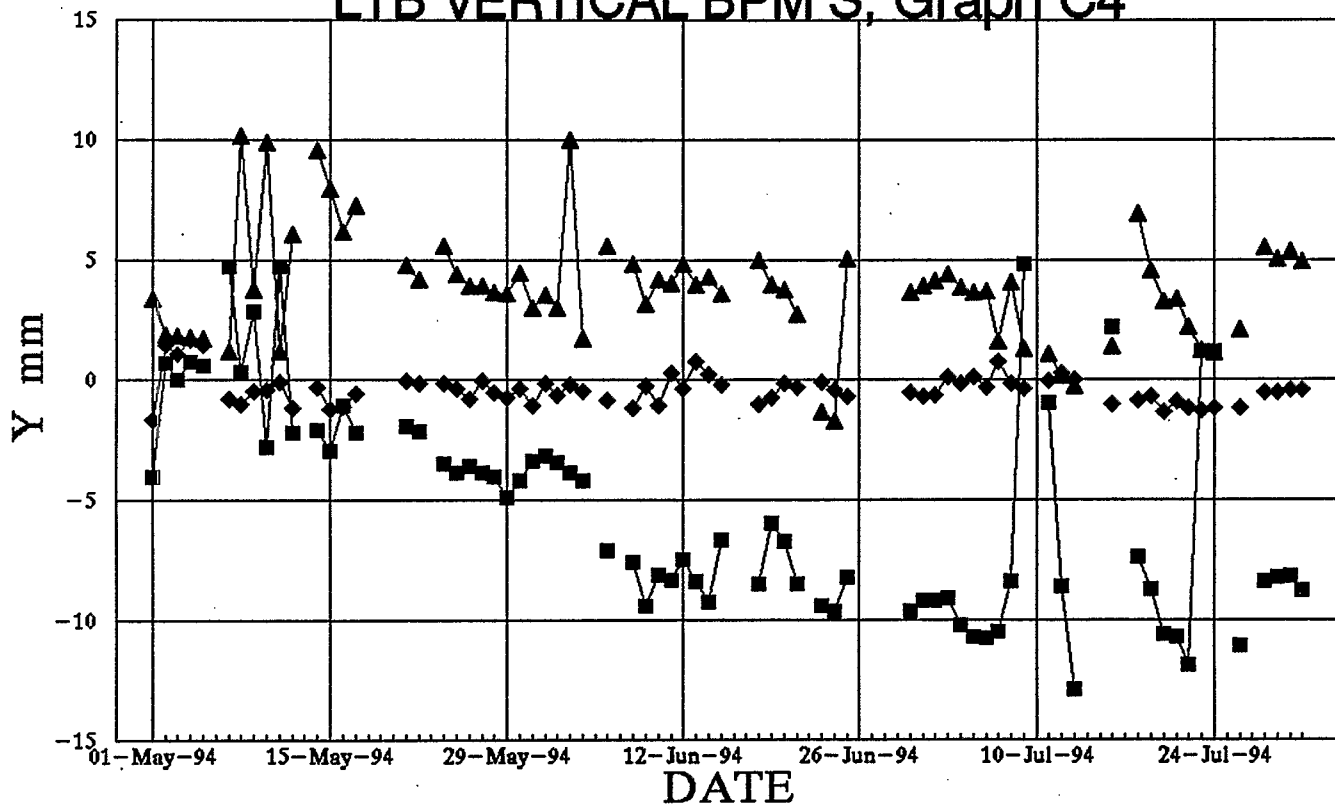
■ BPM090 ◆ BPM102 ▲ BPM109

LTB VERTICAL BPM'S; Graph C3



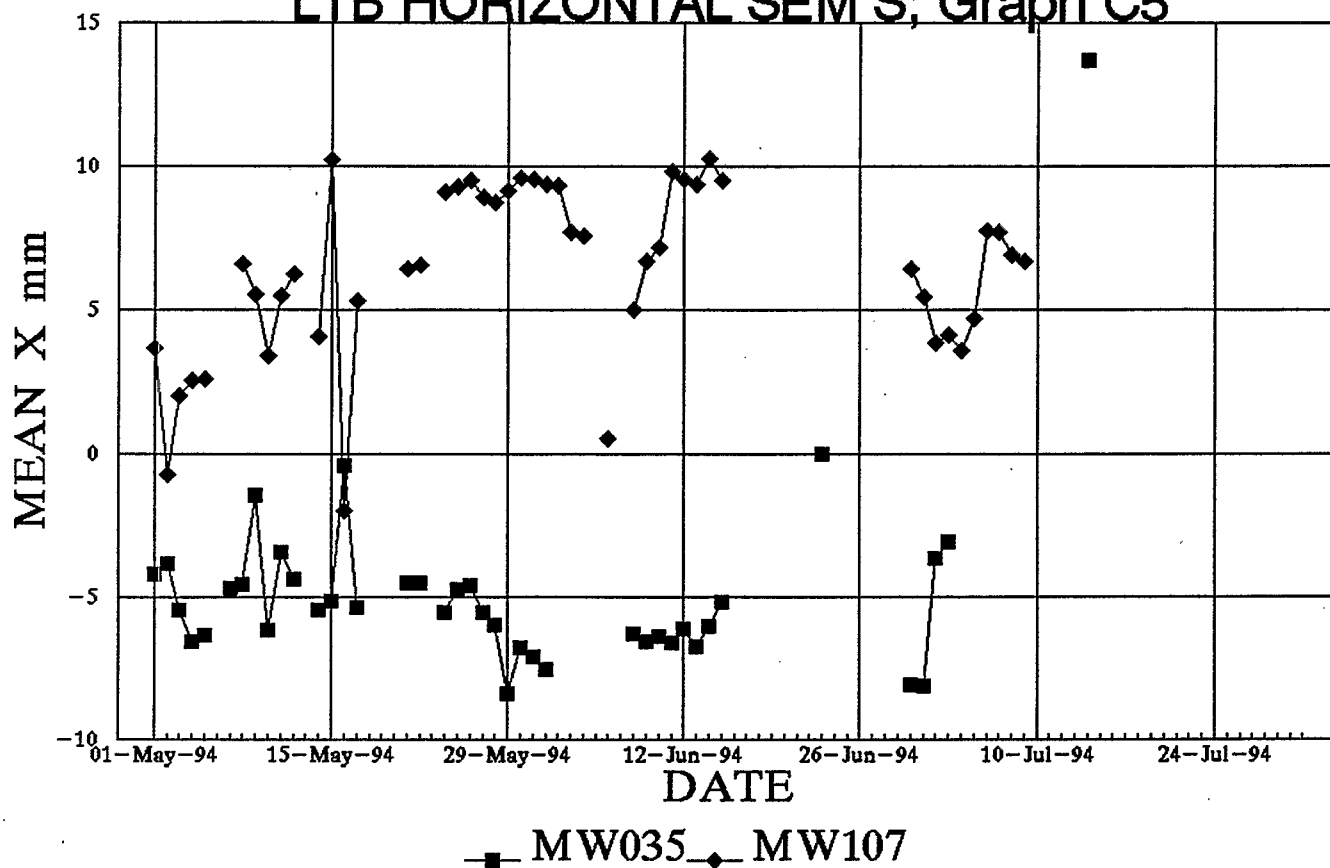
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LTB VERTICAL BPM'S; Graph C4

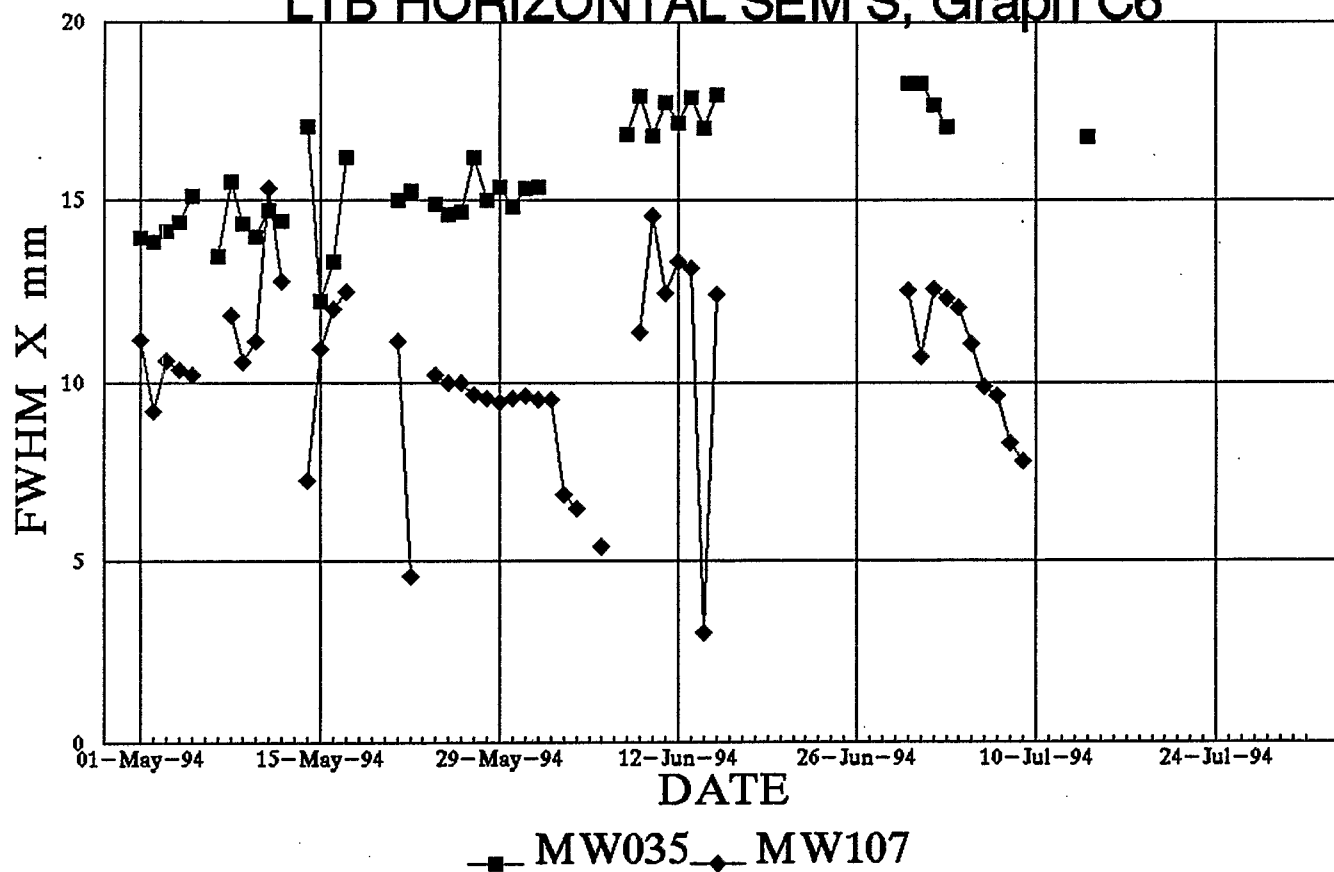


■ BPM090 ◆ BPM102 ▲ BPM109

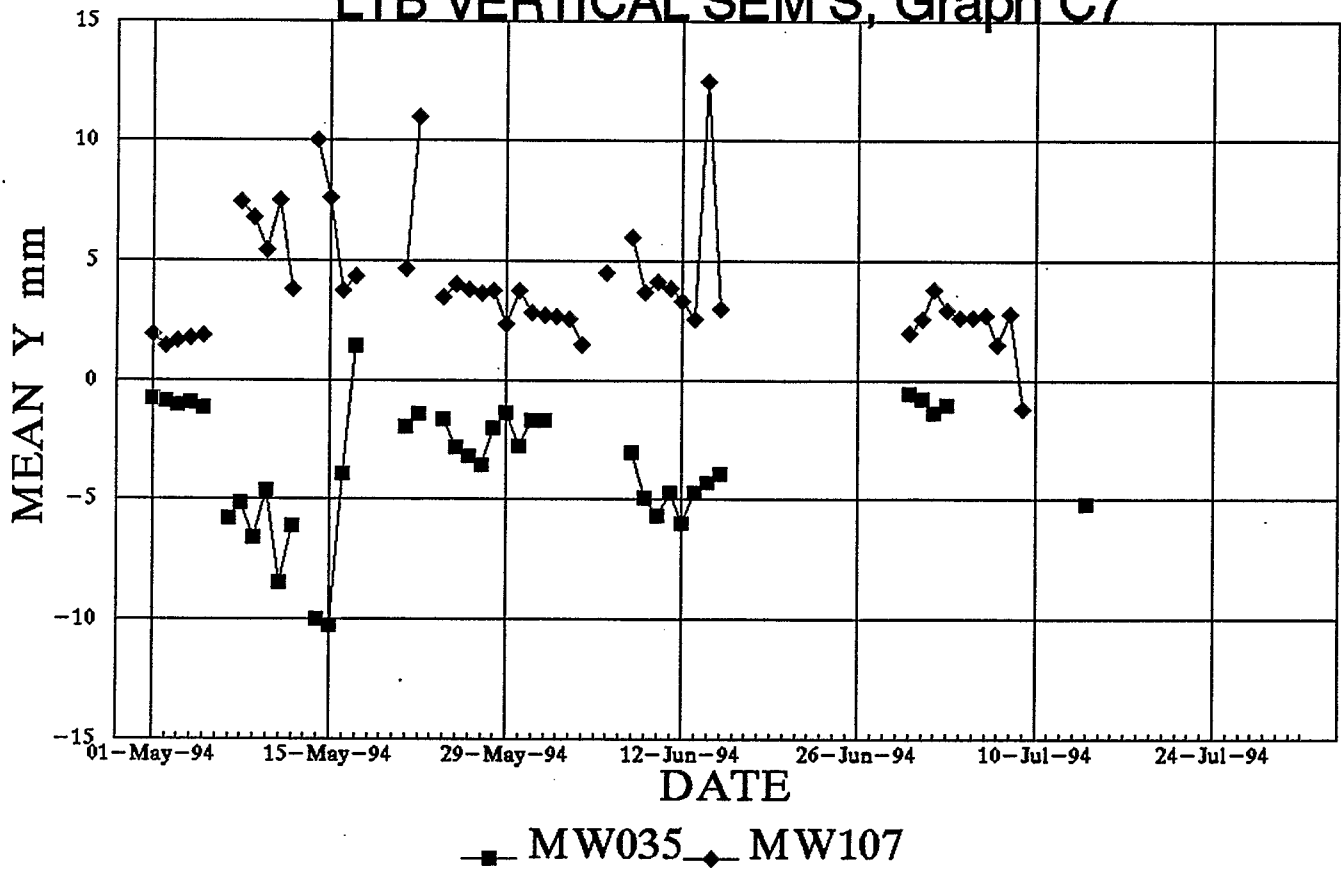
LTB HORIZONTAL SEM'S; Graph C5



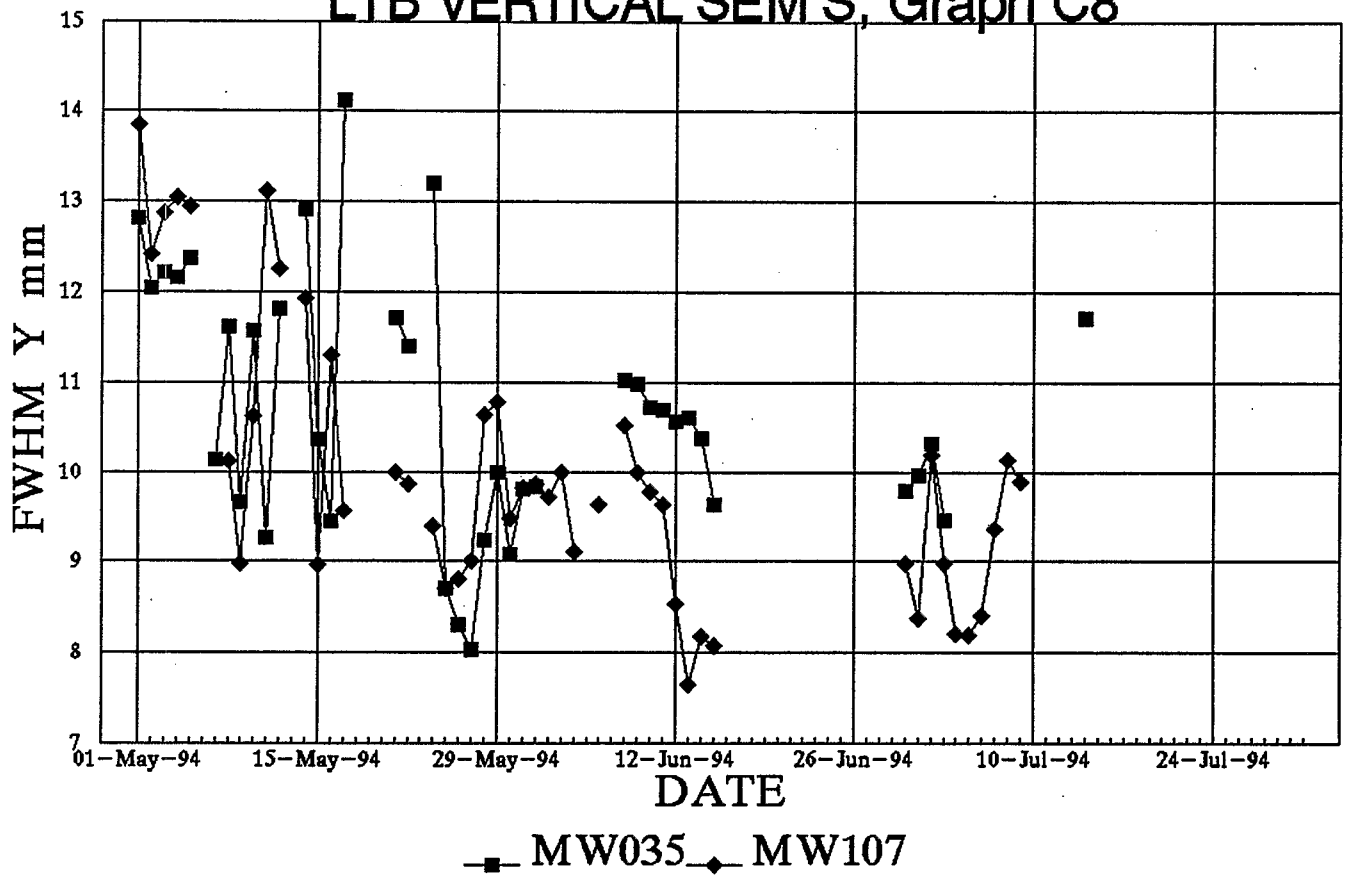
LTB HORIZONTAL SEM'S; Graph C6



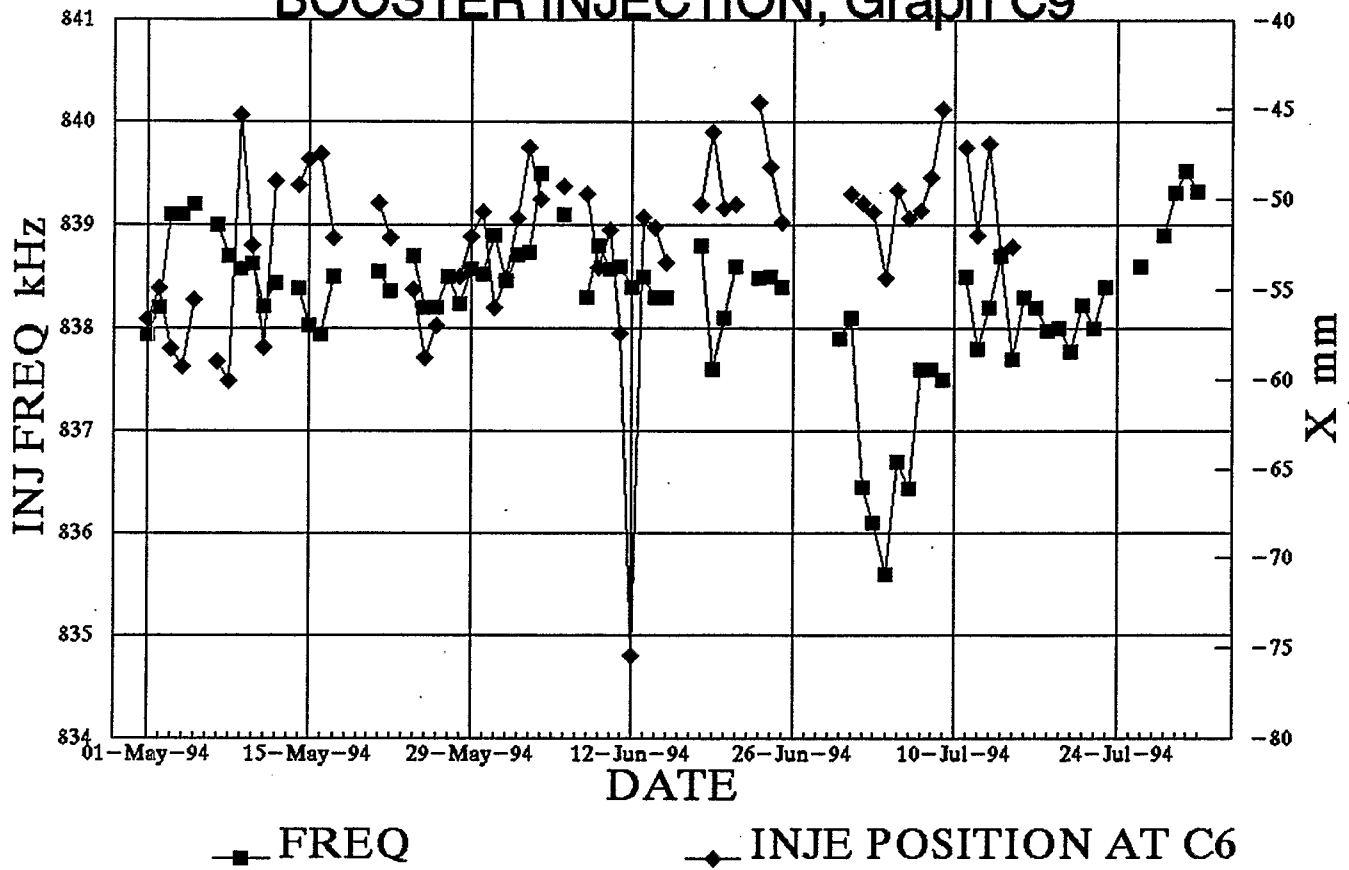
LTB VERTICAL SEM'S; Graph C7



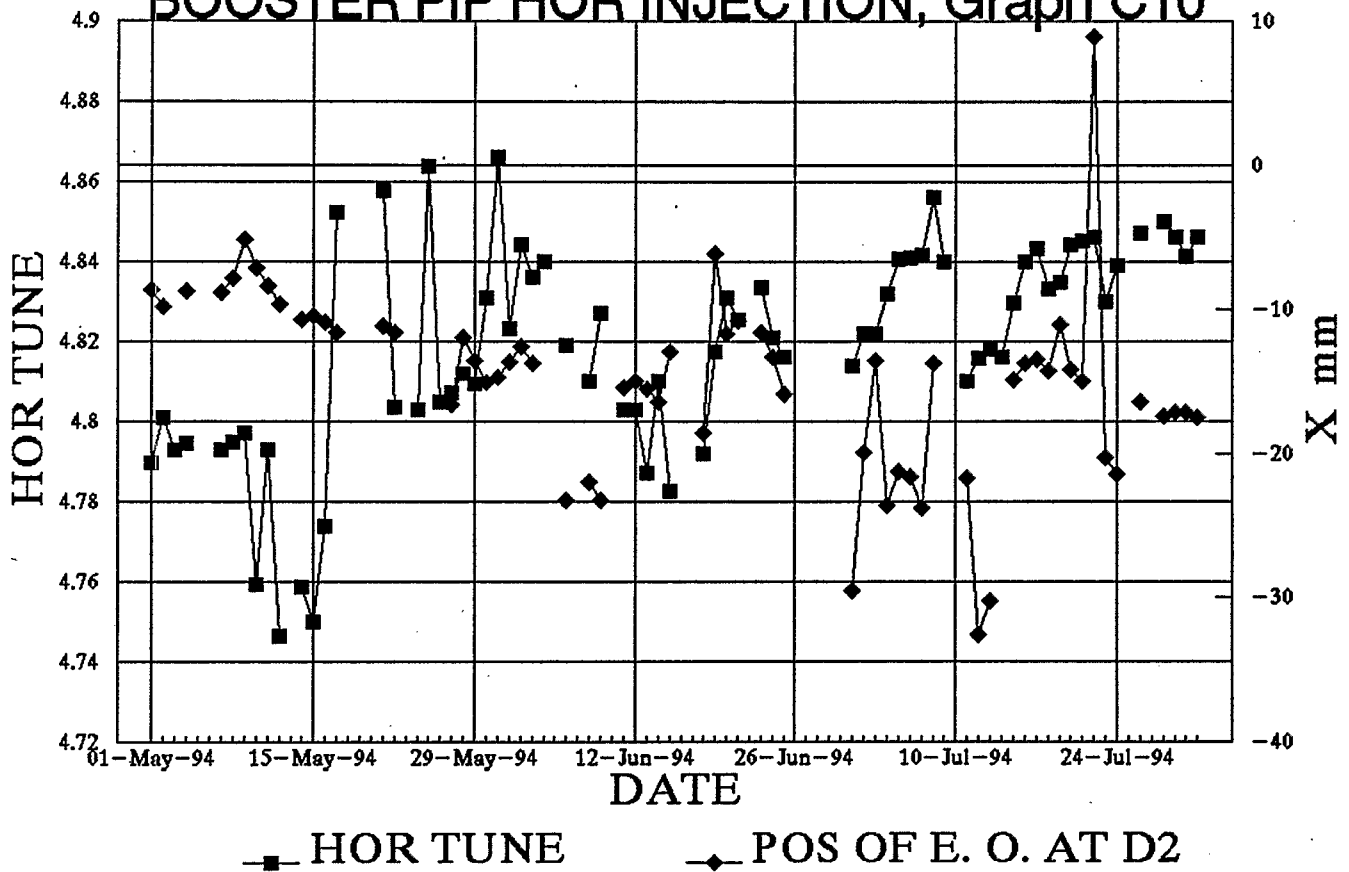
LTB VERTICAL SEM'S; Graph C8

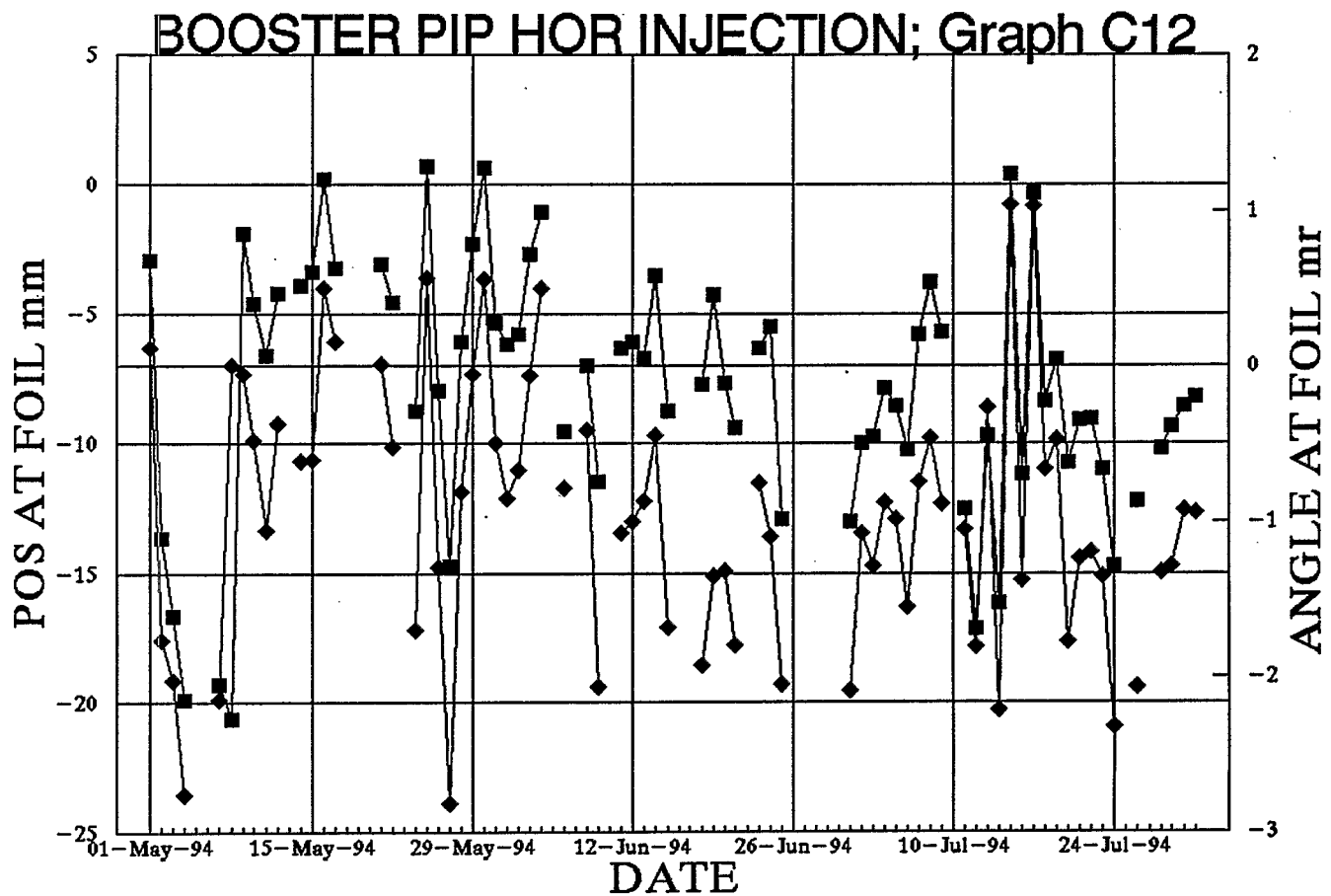
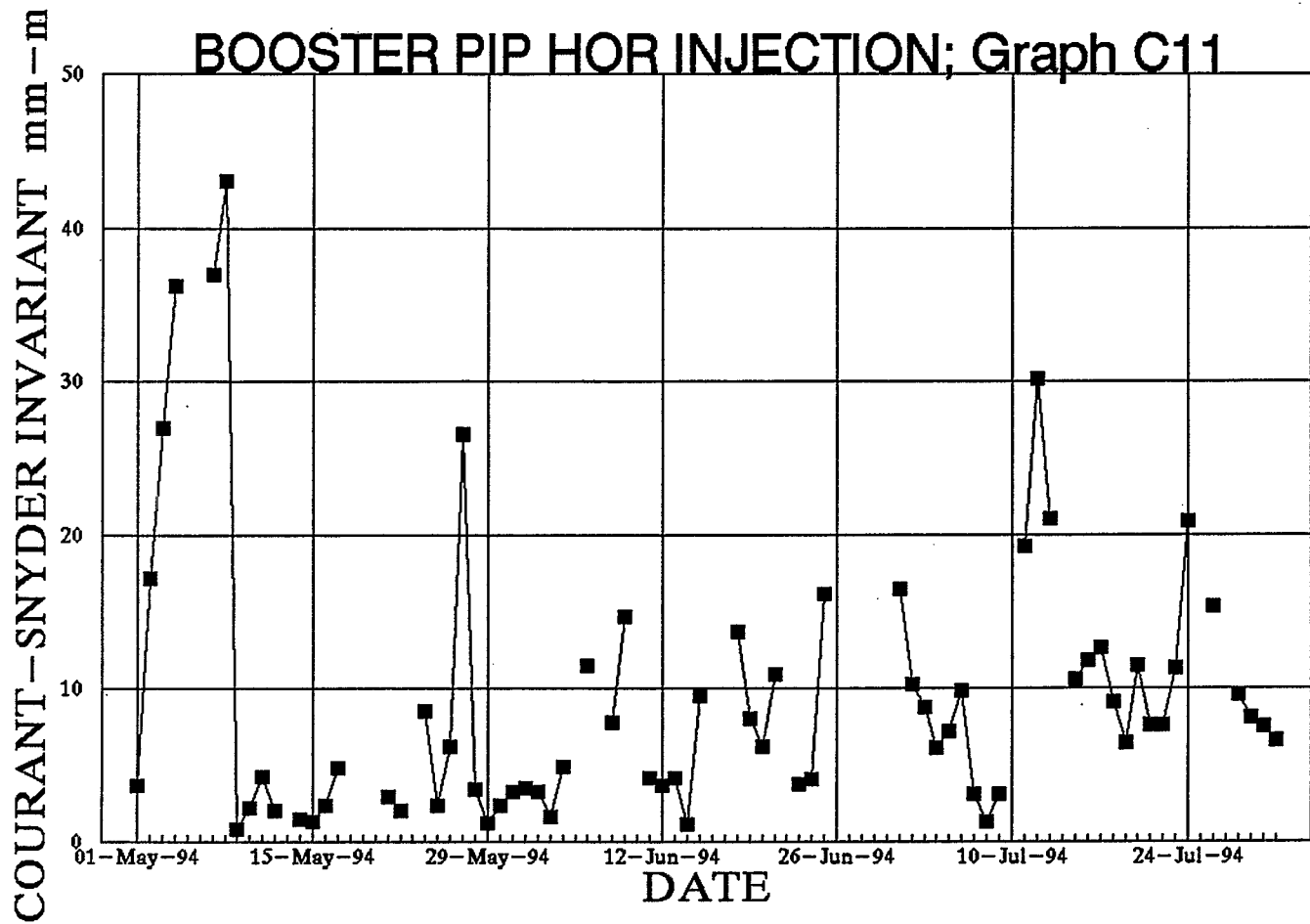


BOOSTER INJECTION; Graph C9

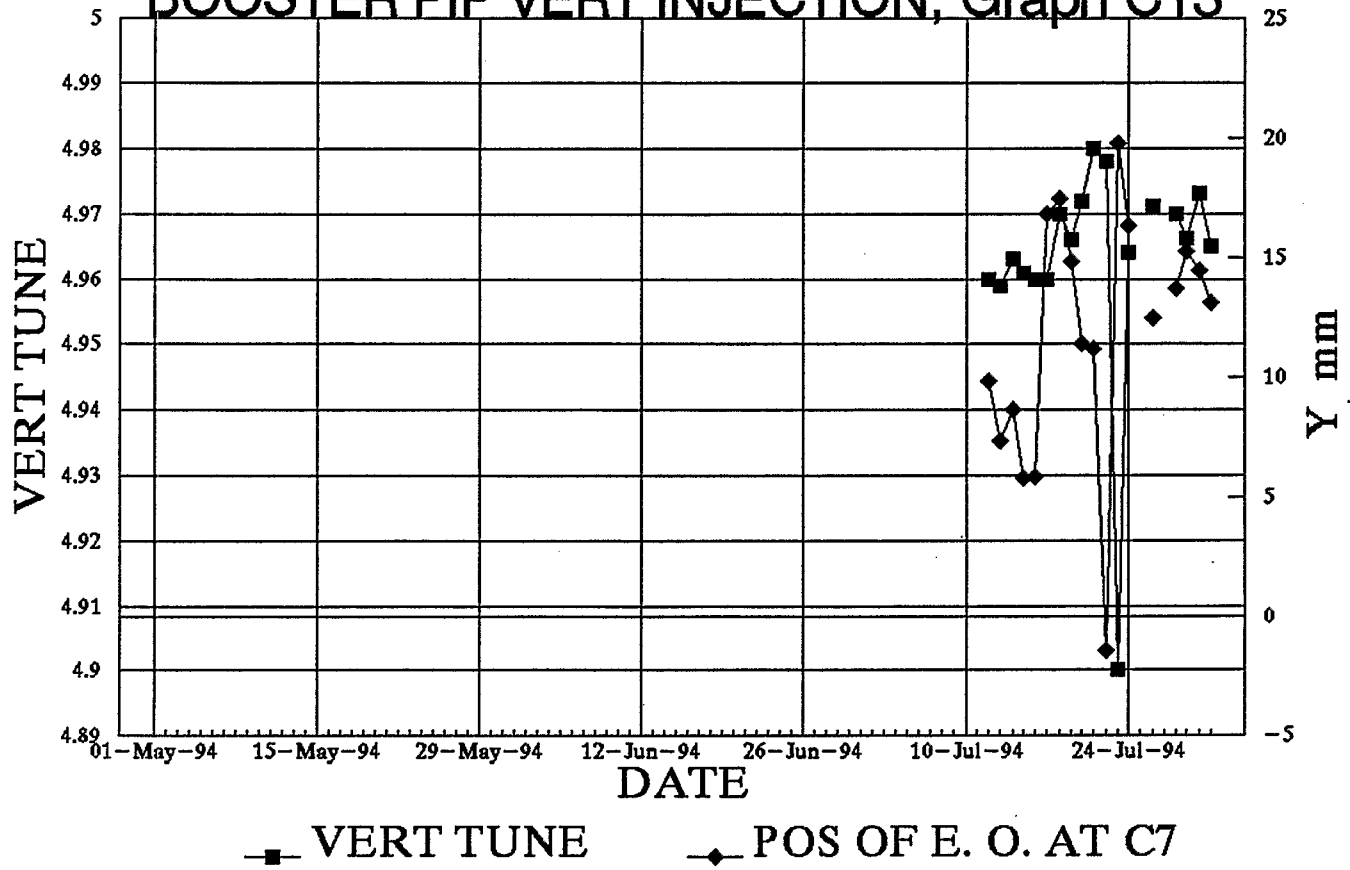


BOOSTER PIP HOR INJECTION; Graph C10

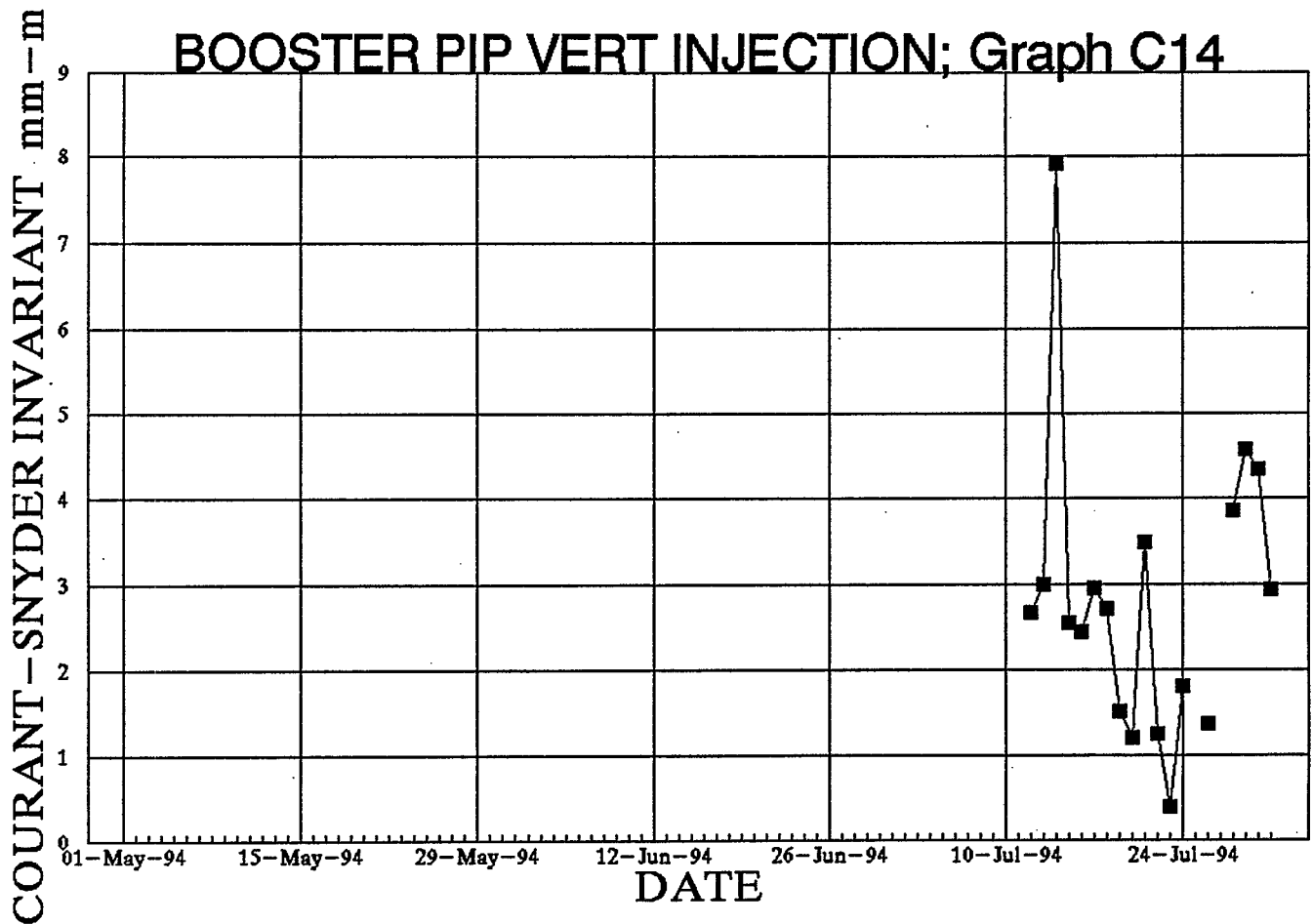


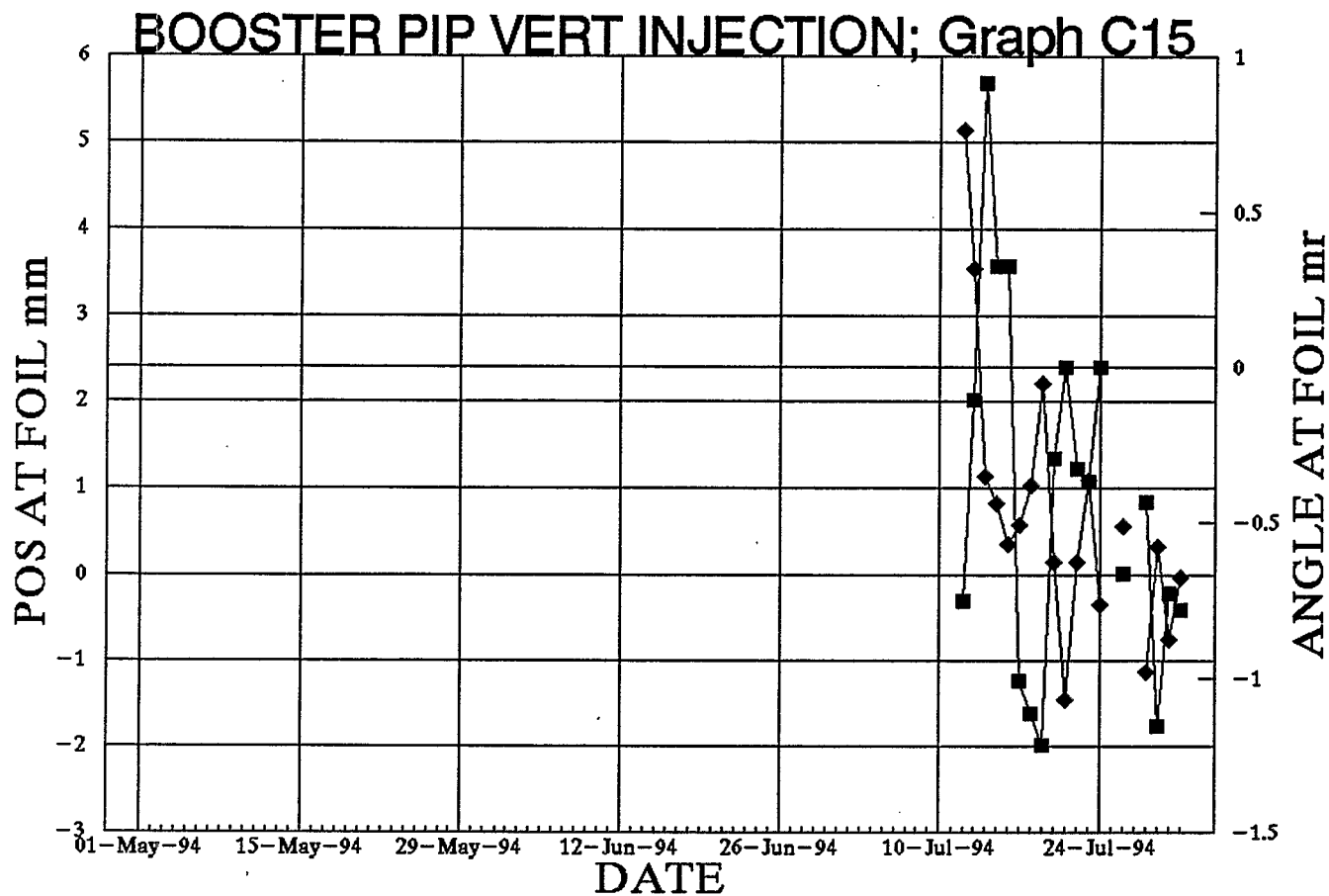


BOOSTER PIP VERT INJECTION; Graph C13

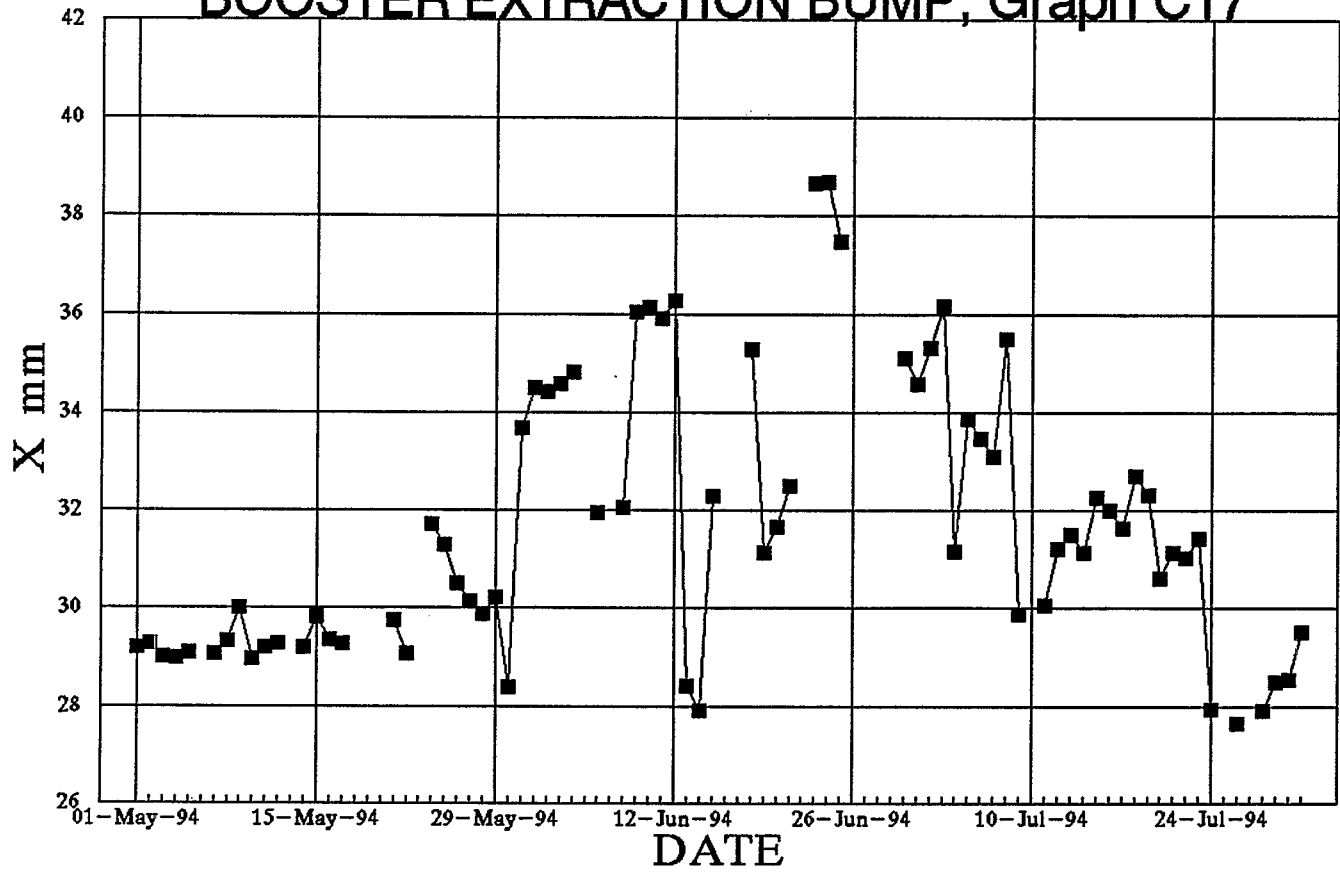


BOOSTER PIP VERT INJECTION; Graph C14

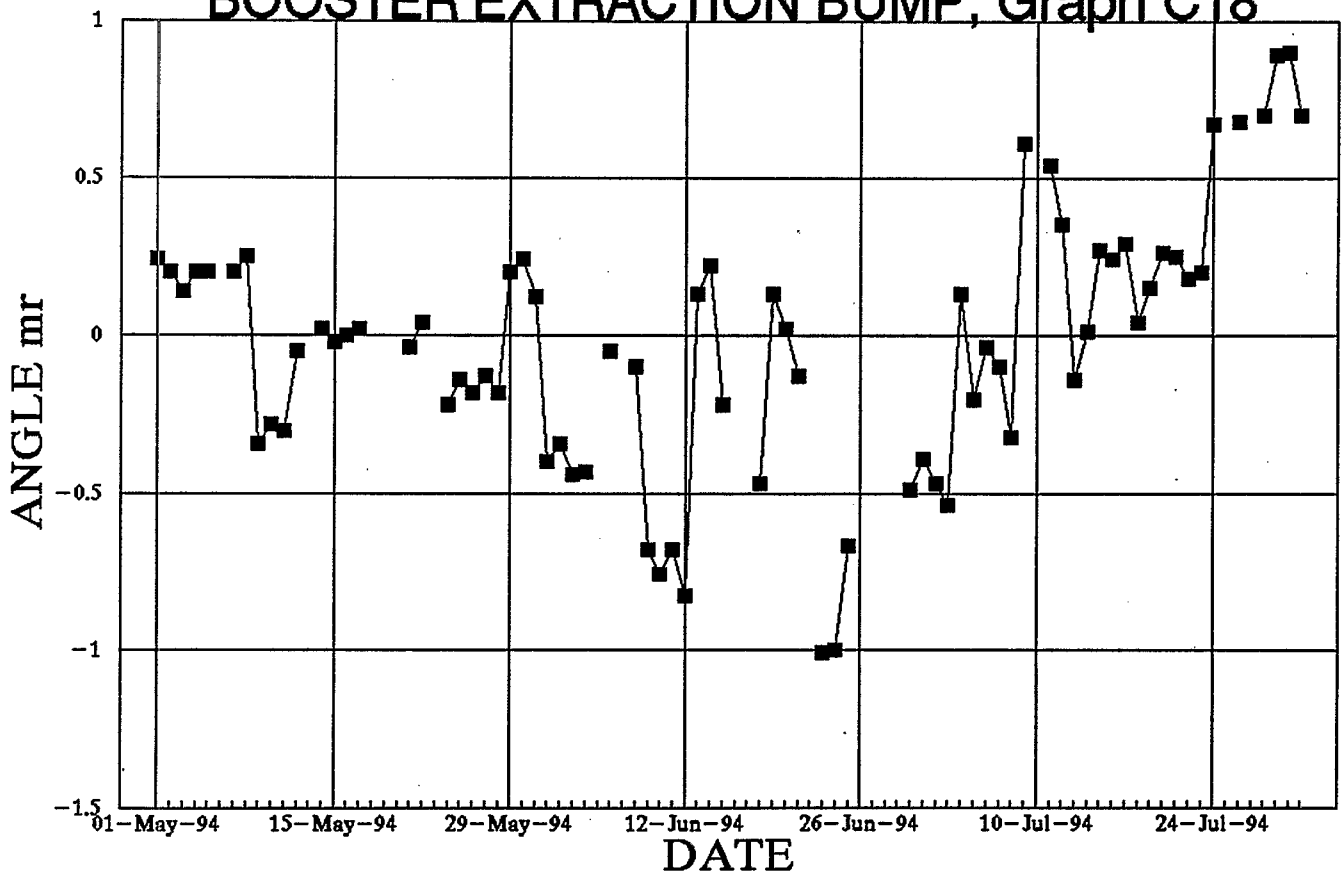




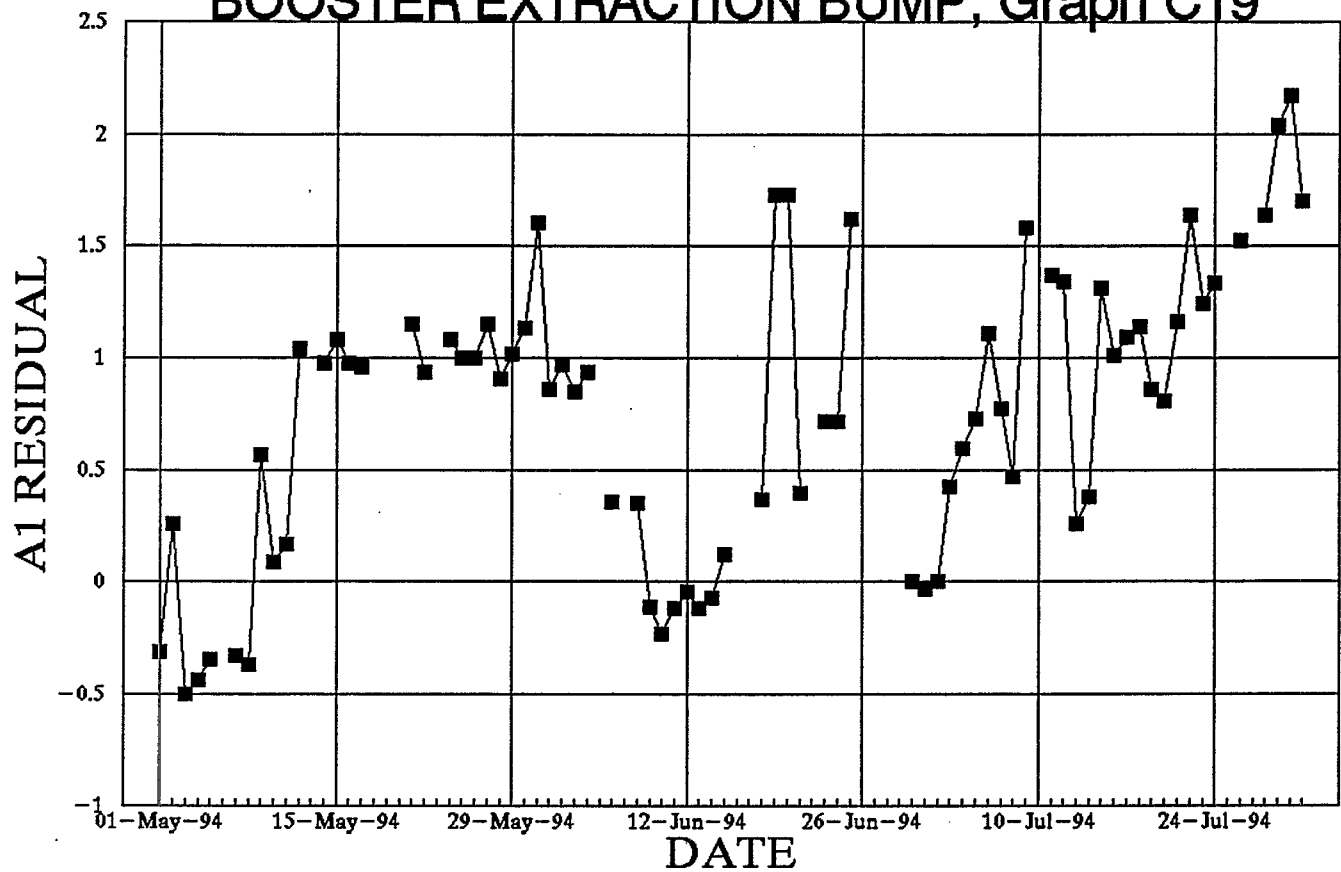
BOOSTER EXTRACTION BUMP; Graph C17



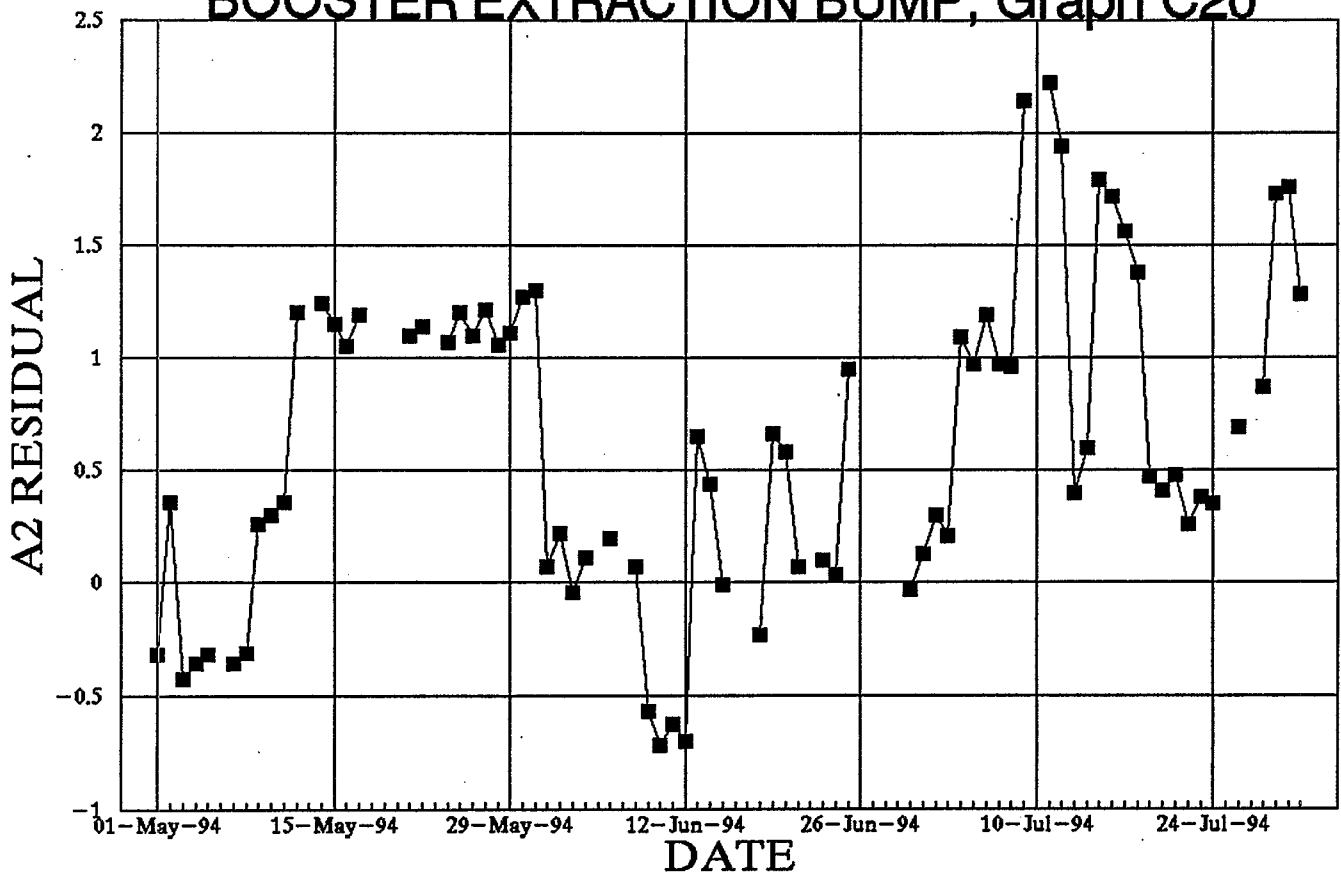
BOOSTER EXTRACTION BUMP; Graph C18

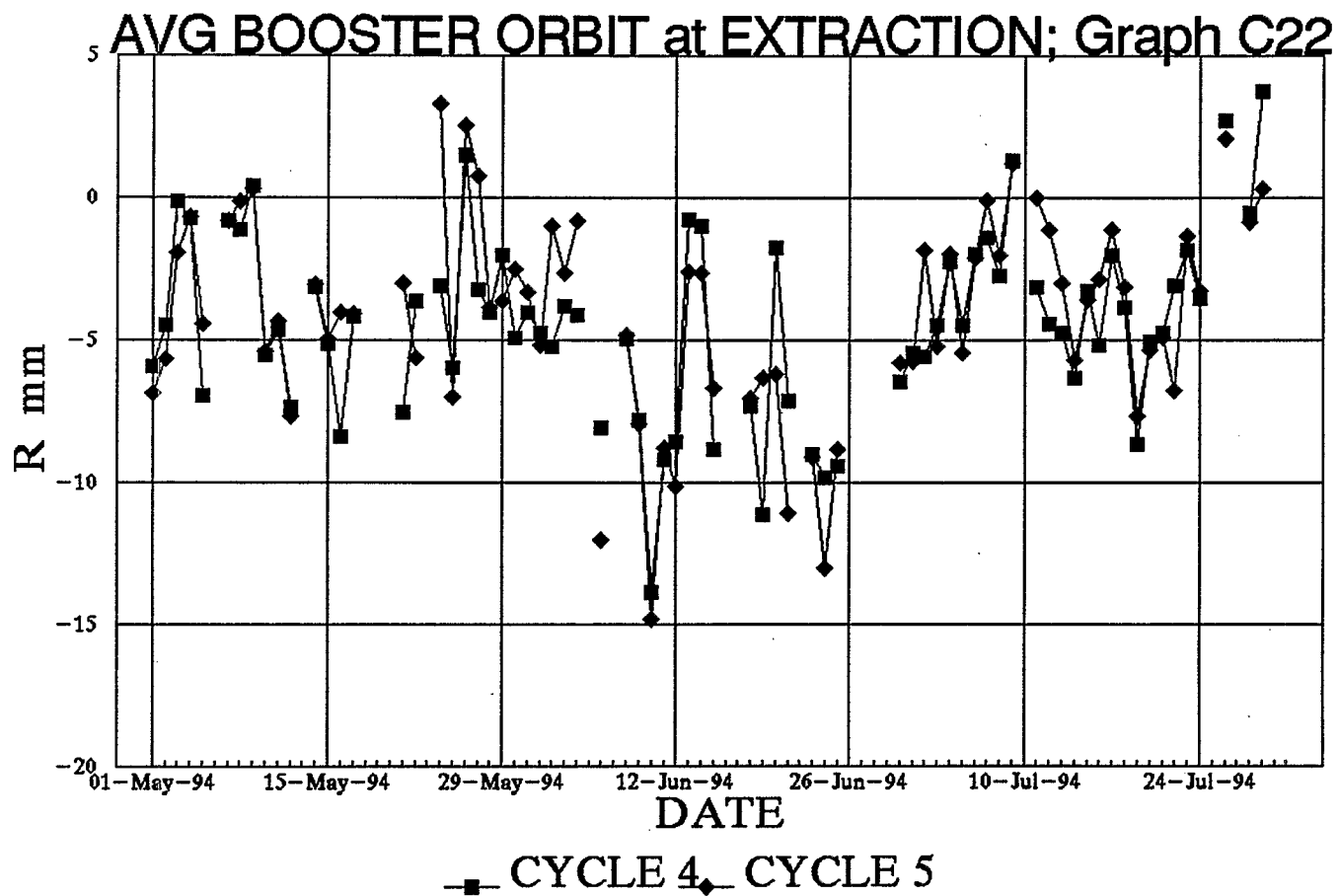
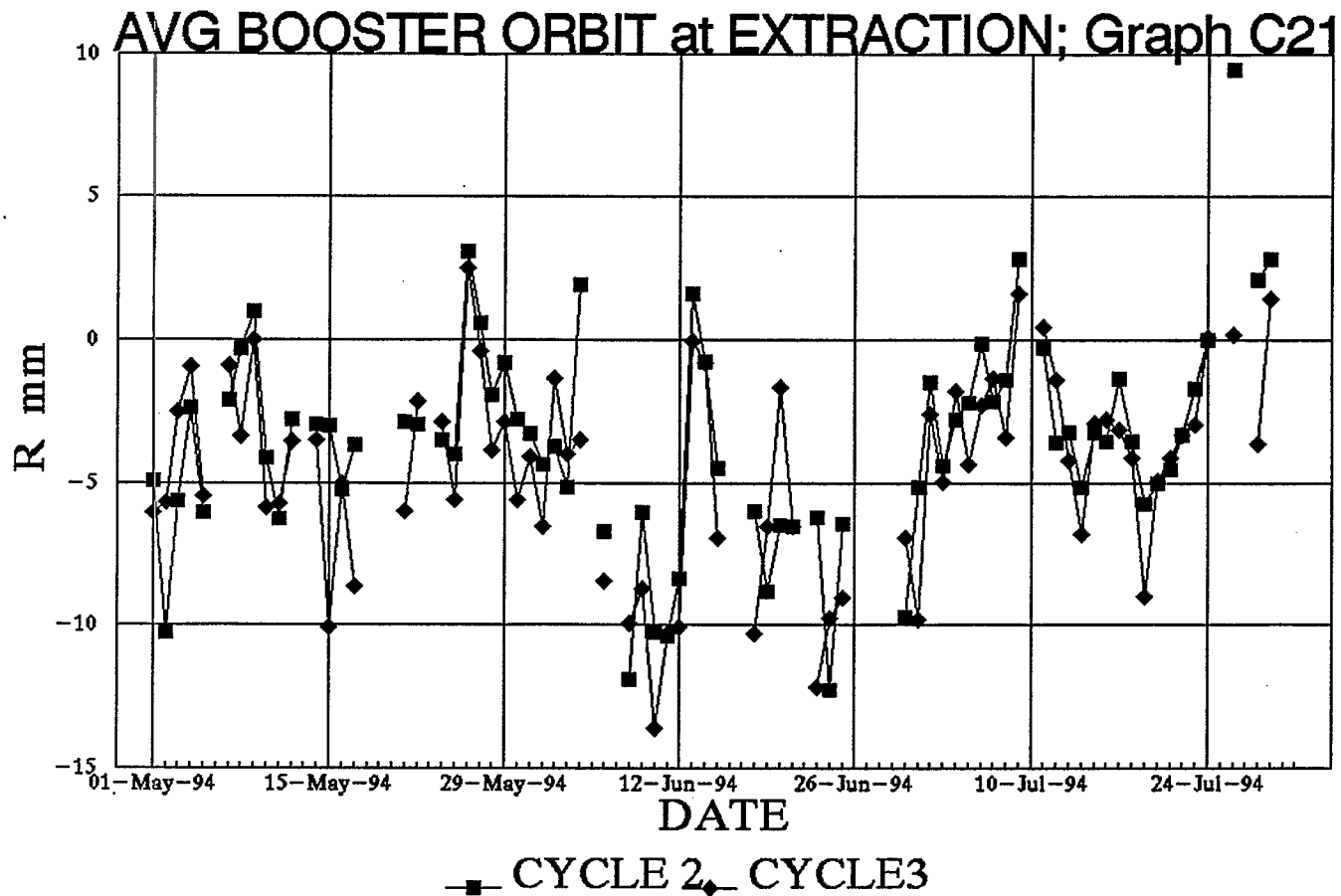


BOOSTER EXTRACTION BUMP; Graph C19

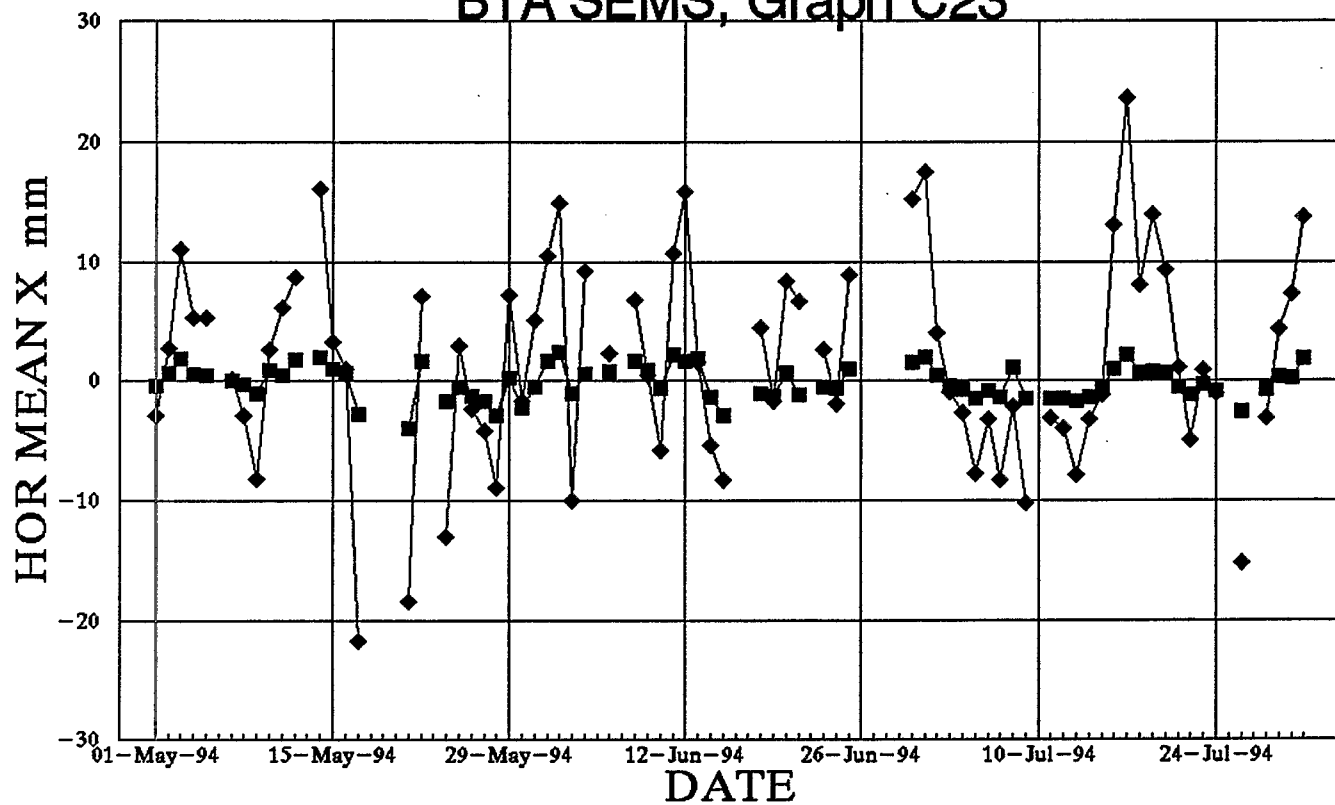


BOOSTER EXTRACTION BUMP; Graph C20



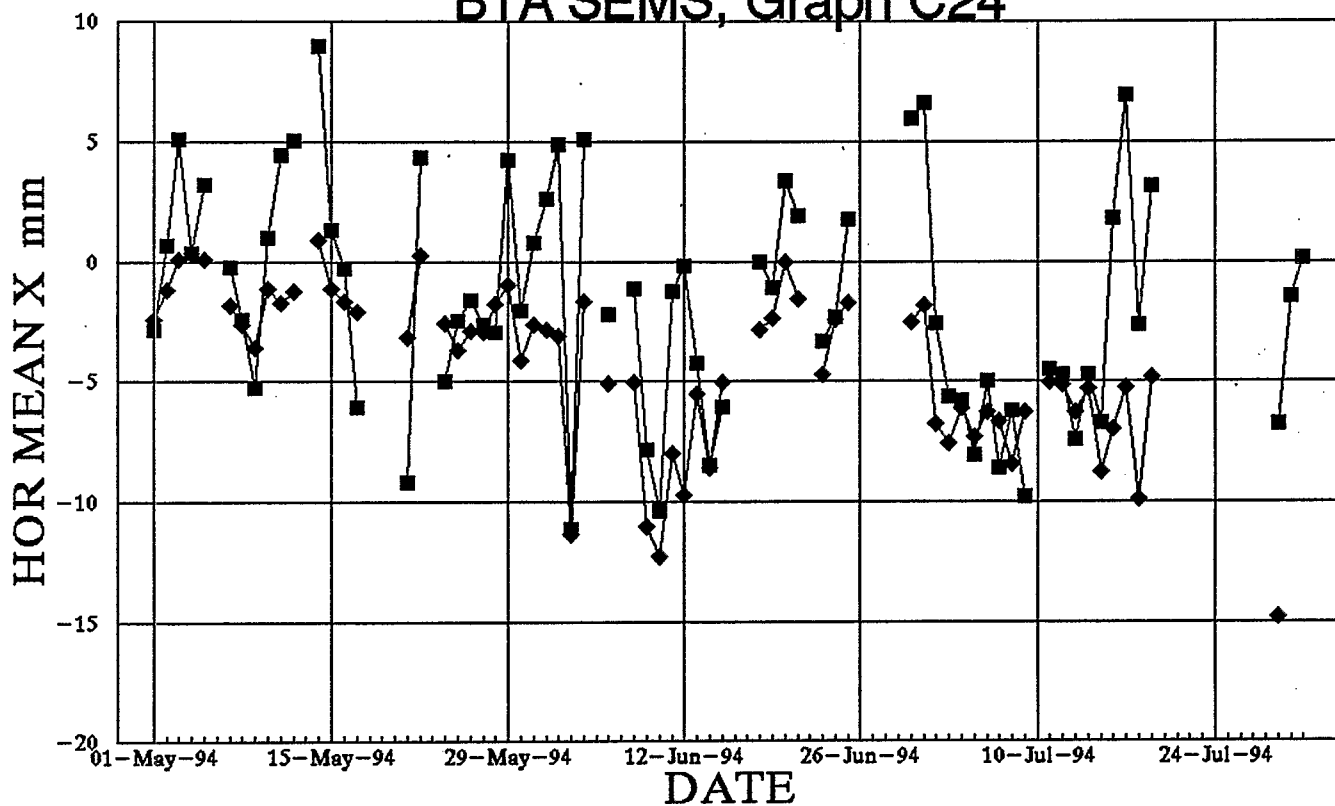


BTA SEMS; Graph C23



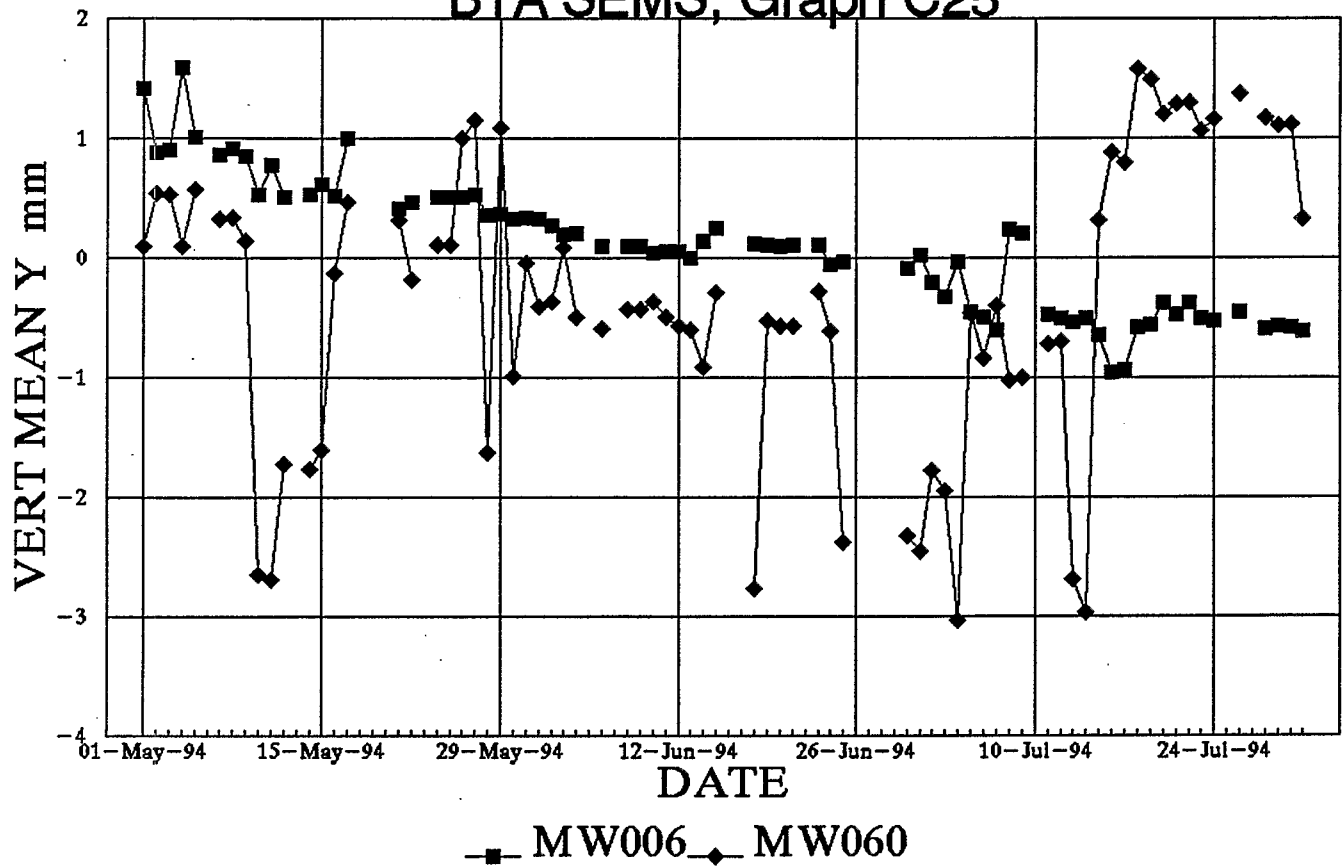
—■— MW006 —◆— MW060

BTA SEMS; Graph C24

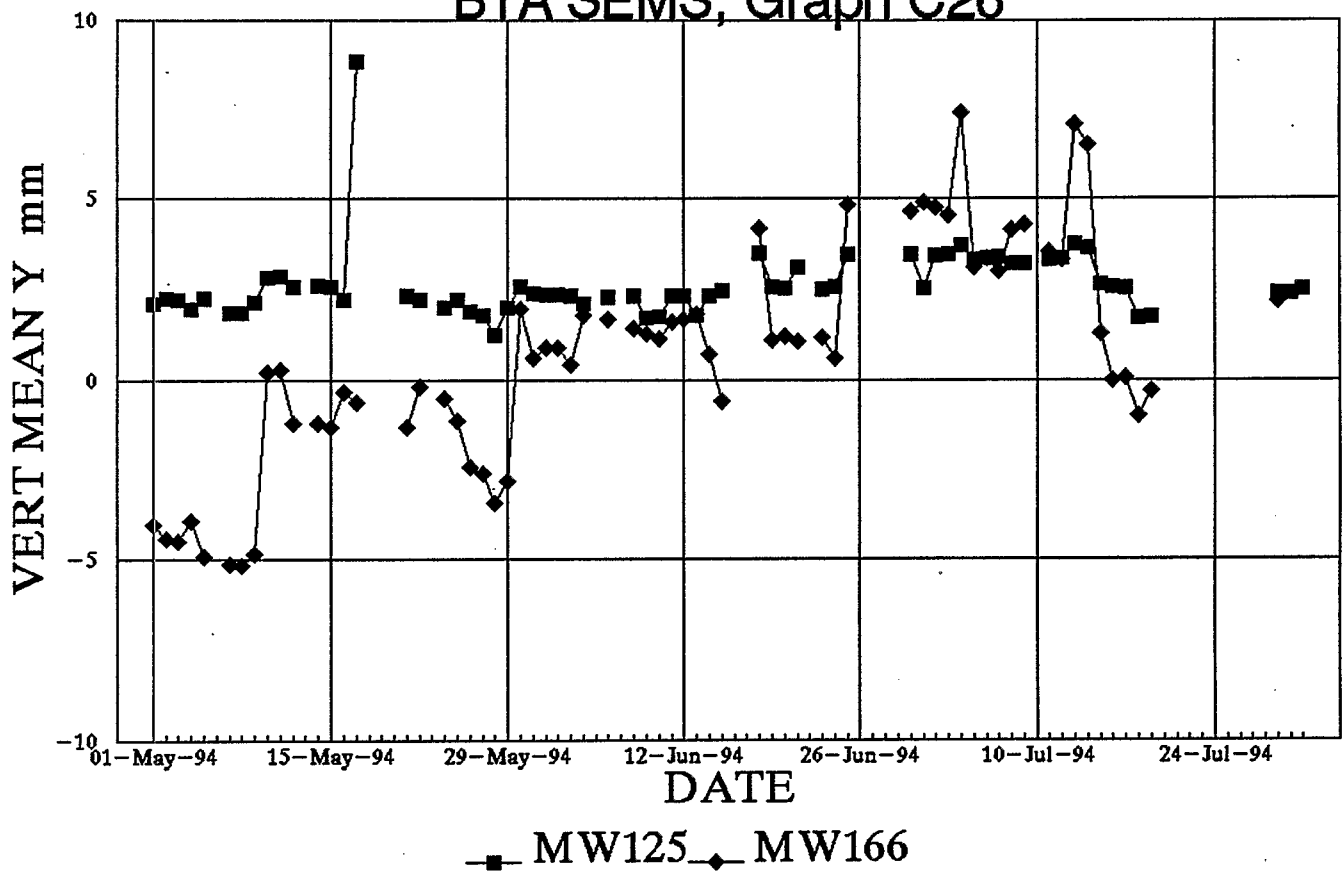


—■— MW125 —◆— MW166

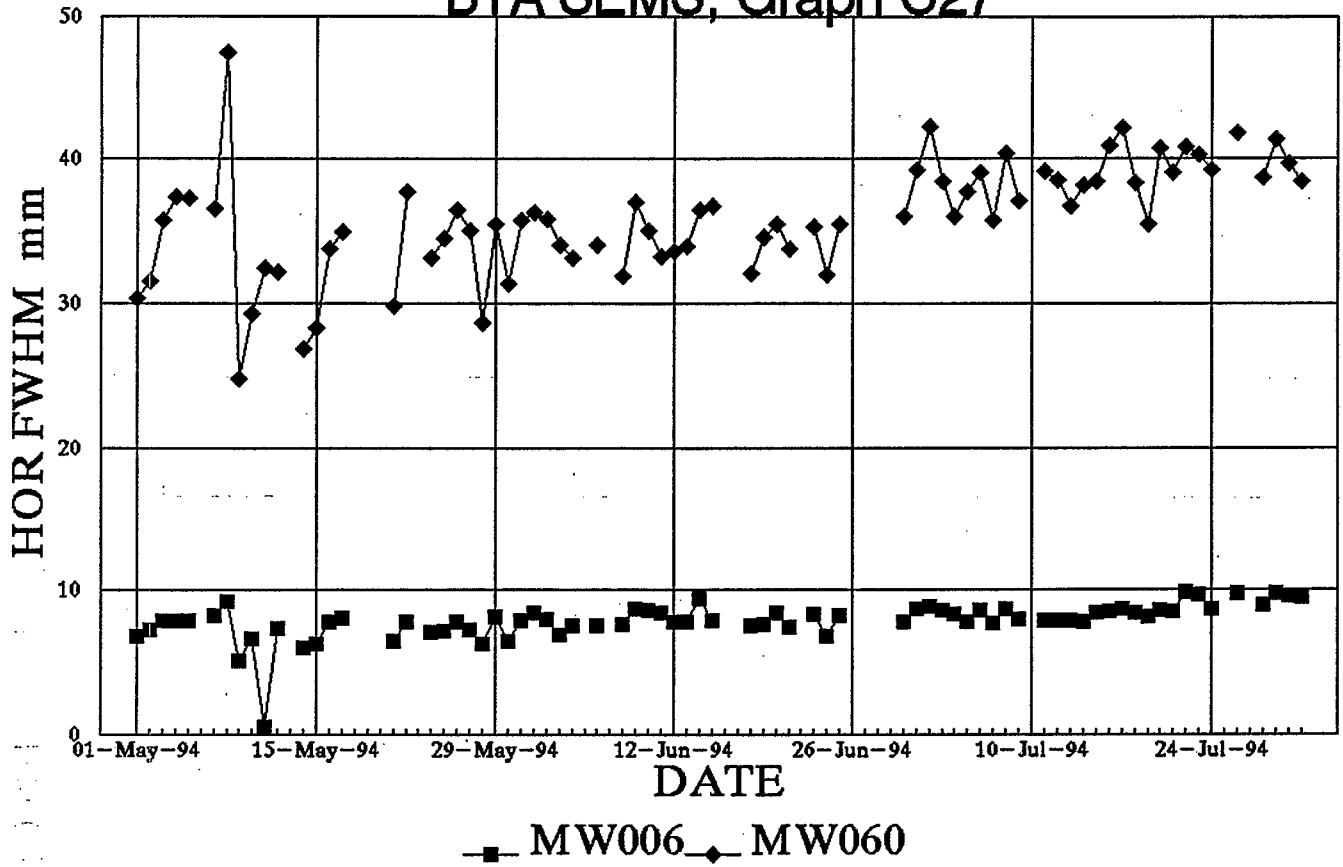
BTA SEMS; Graph C25



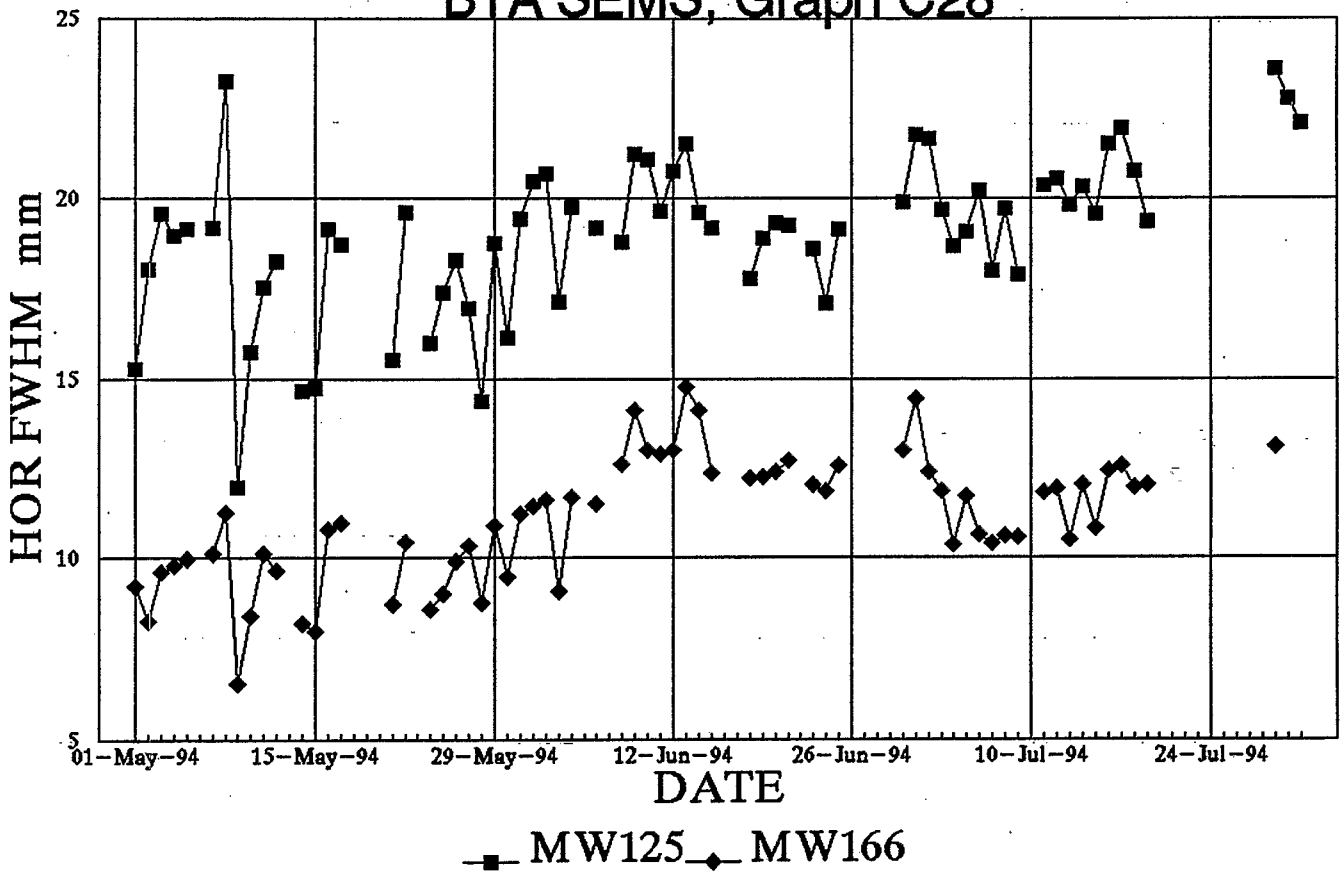
BTA SEMS; Graph C26



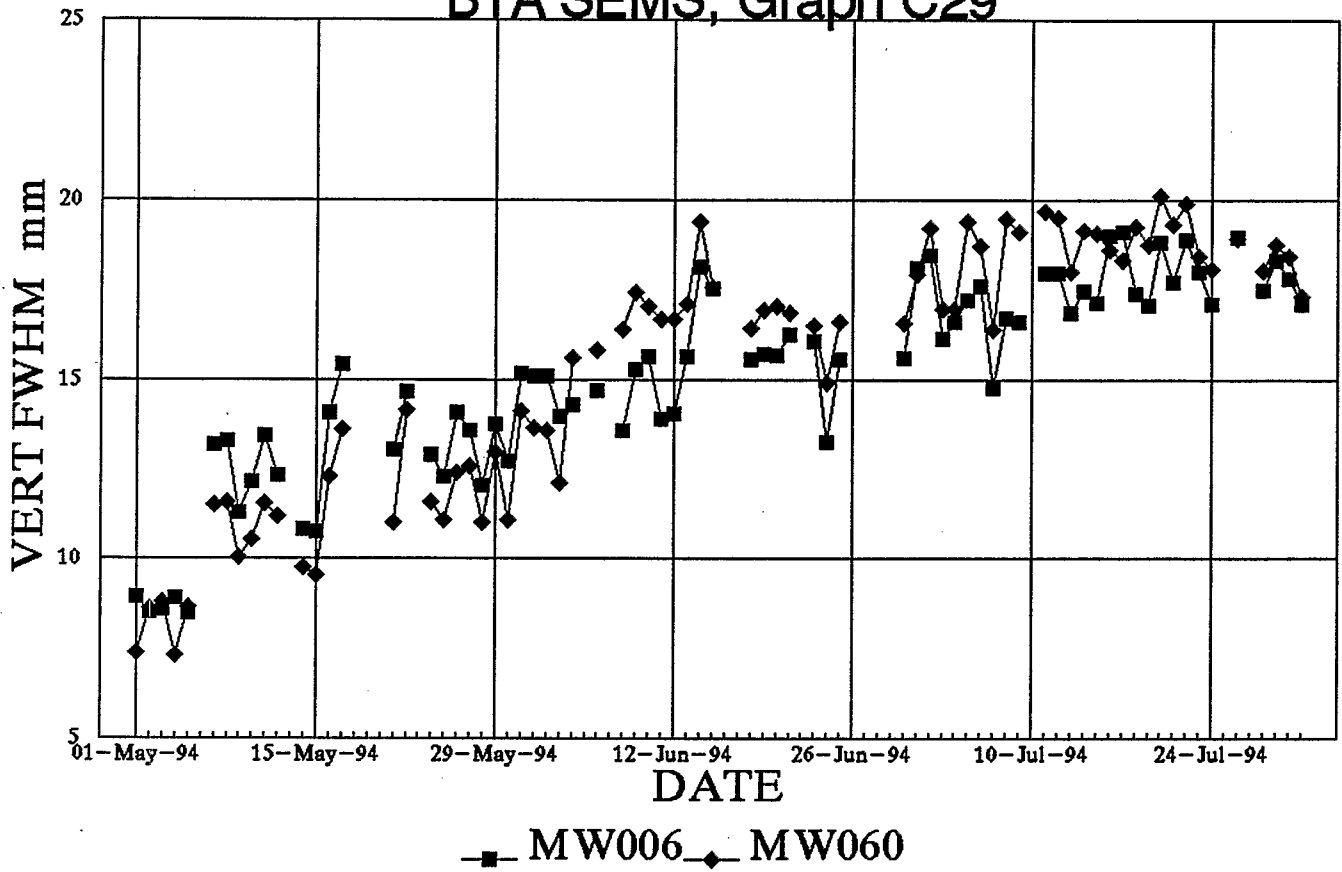
BTA SEMS; Graph C27



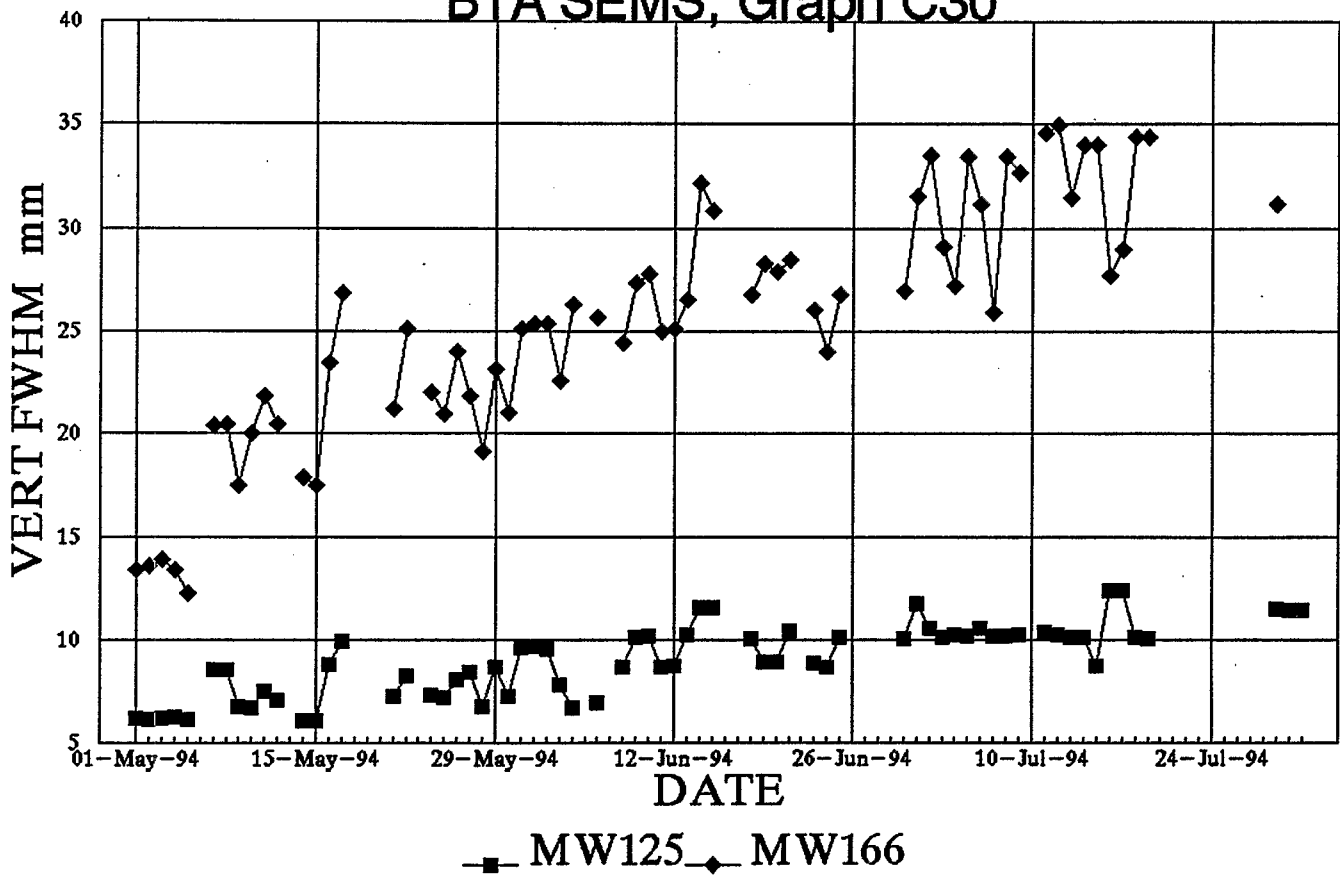
BTA SEMS; Graph C28



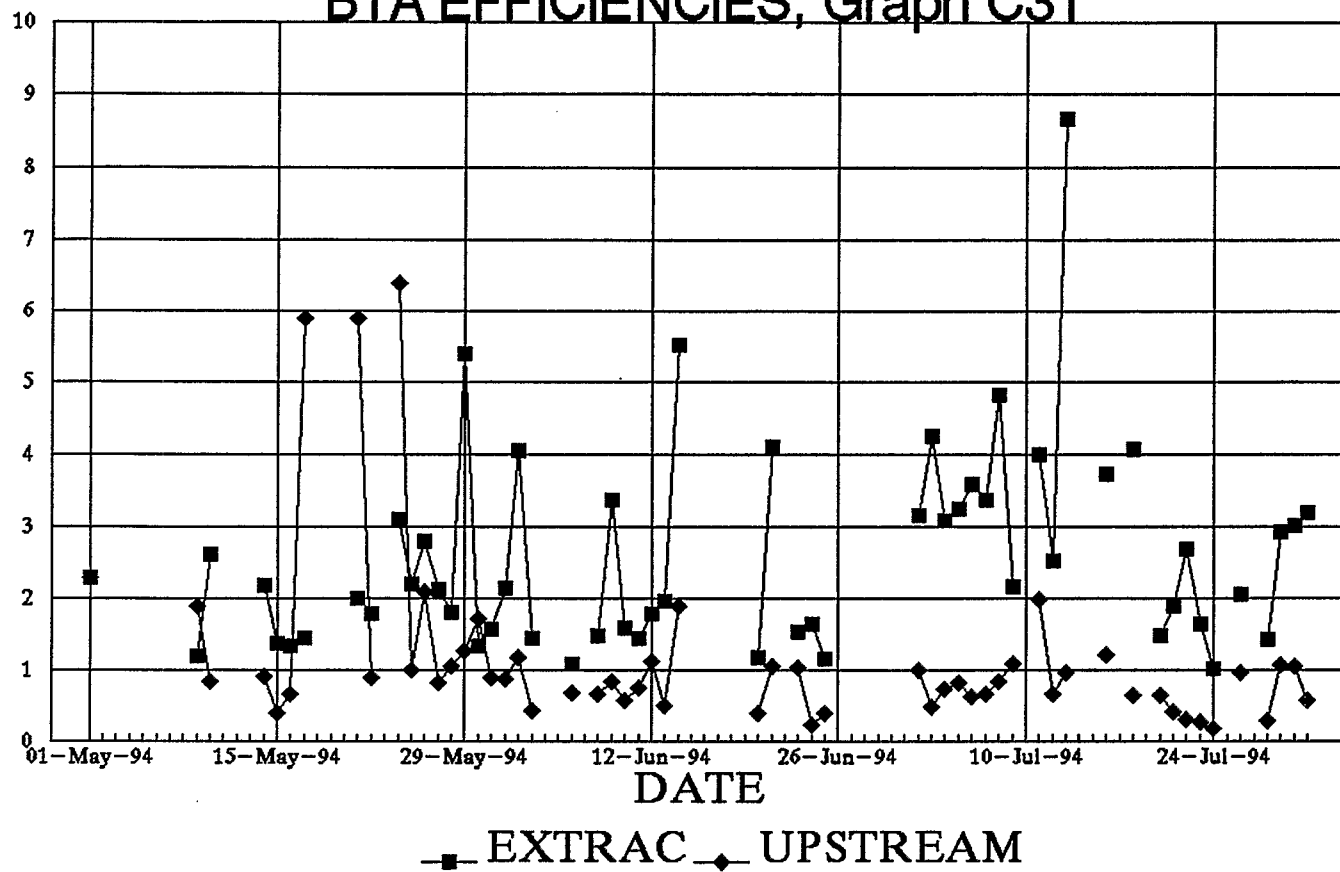
BTA SEMS; Graph C29



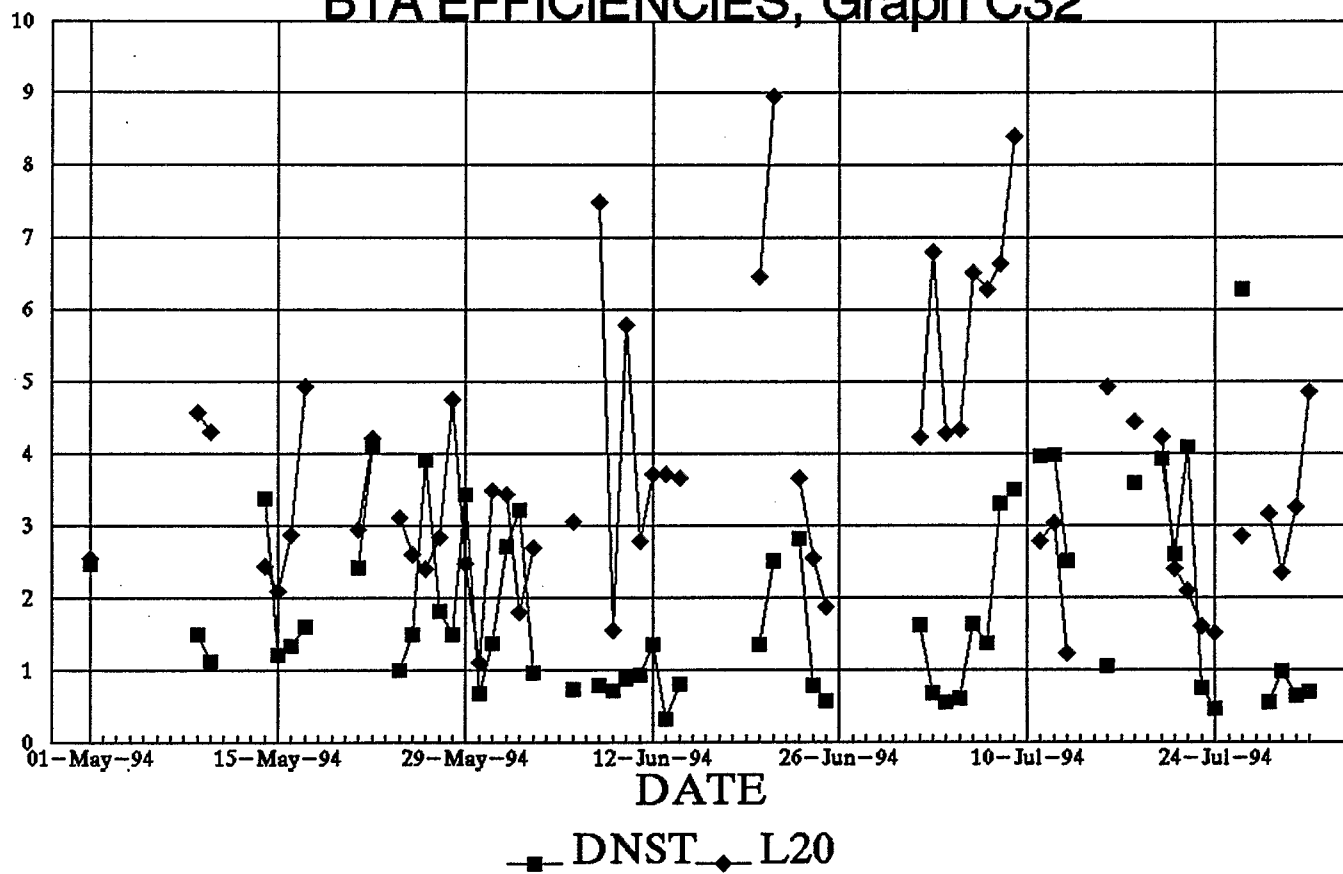
BTA SEMS; Graph C30



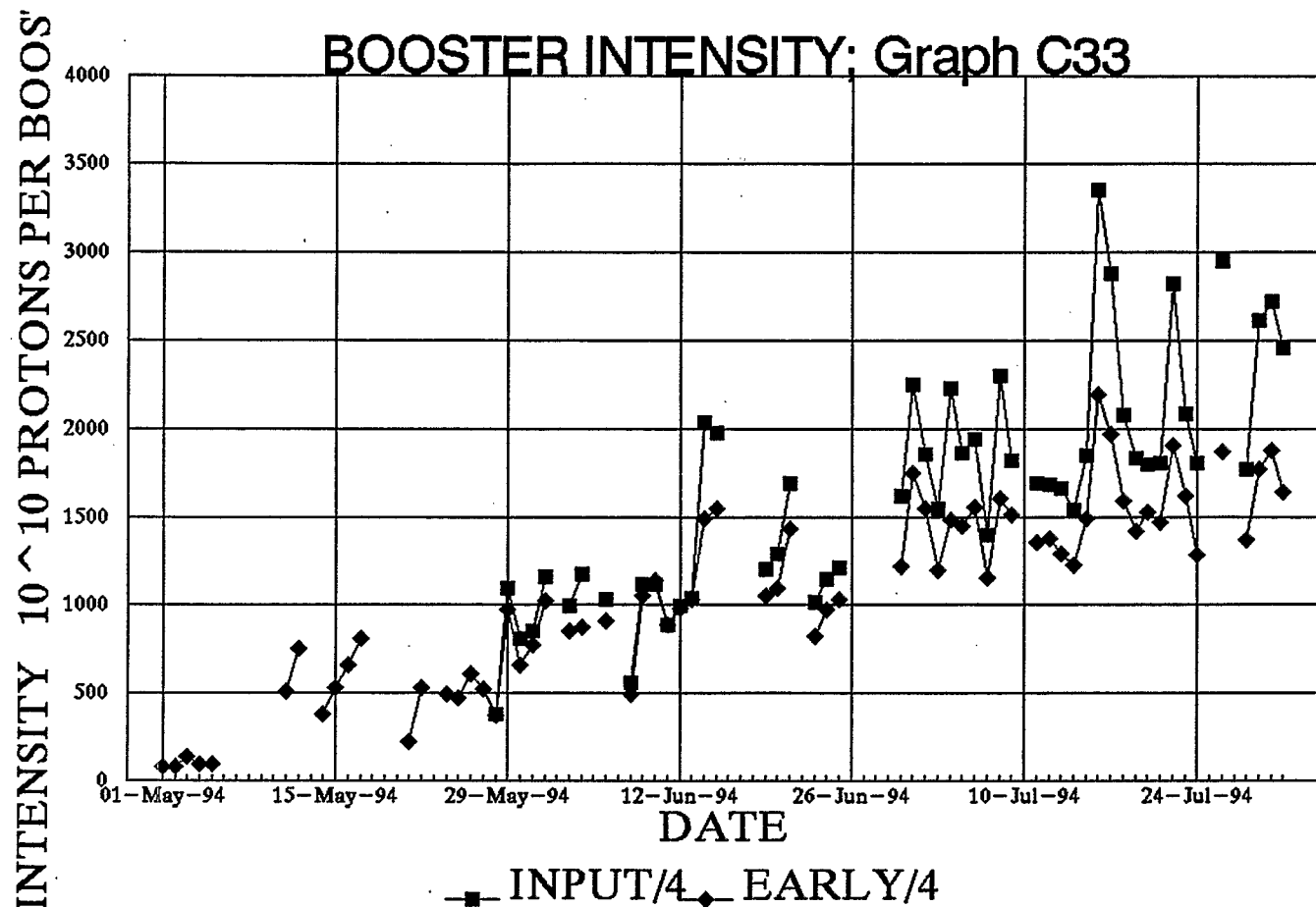
BTA EFFICIENCIES; Graph C31



BTA EFFICIENCIES; Graph C32



BOOSTER INTENSITY: Graph C33



BOOSTER INTENSITY: Graph C34

