

Monsanto

Anniston Plant

TECHNICAL SERVICES DEPARTMENT
MONTHLY REPORT

Anniston

Plant Copy*
File Copy
J. C. Landwehr*

*PR&D Mid-month
Report Attached

General Offices

D. Danna* (5)
C. F. Luecke*/
R. E. Howard
W. R. Richard*
J. R. Savage*
J. A. Stephens*

Summary

NOVEMBER, 1971

Ag Division

Winterization of Parathion Department for production of Methyl in cold weather is progressing well. Project is 70-75% complete at month's end. Expect completion of all but "turn-around" work by Dec. 20.

Preliminary economic studies completed on Residue Recycle and Sulfur Settling schemes for improved PCT yield and sulfur removal. Further lab studies are in progress prior to pilot plant proposal early in 1972.

Premise prepared for expansion and upgrading of Plasticizer Blending and shipping facilities. Project in preparation for additional tankage, loading docks and truck scales.

AFE 3887 - Recycle PNP Waste Water - (\$20.7M N.F.C., \$1.1 M Expense) savings, \$8.0M B.T. and improved pollution control, and AFE 3889 - Improve Ventilation of Niran Emergency Generators - (\$2.2M N.F.C., \$0.4M Expense) - both were forwarded for approval.

The automatic steam controller on No. 1 Intermediate Still continues to show a 3.5% reduction in cycle time and a 2% increase in yield per batch. A process analysis revealed major causes of plugged condensers. The automatic features of the steam controller are being expanded to reduce the effect of these factors. Changes are being made in the chlorinator to permit automatic full-batch nitrogen sparging.

PR&D is currently evaluating the improved Methyl PCT process described in Ag Research Progress Report 2104 (1). Primary emphasis is directed toward developing thermal stability data.

Polyphenyls

The Santovax storage tank project (AFE 3853) was approved in October (NFC - \$42M). All CED drawings pertaining to the tank installation were received and reviewed by Production, Maintenance, and TSD. Additional drafting will be made by TSD. The tank will arrive by mid-December and project installed during January 1972.

The cumene injection AFE has been delayed to March 1972 due to decreased need for Polyphenyl production. Justification now hinges on elimination of Acetone as a promoter and source of acetic acid corrosion, plus a source of oxygen bearing compounds which are highly toxic upon chlorination.

Report No. 1 - 109-1175 on use of the Partek Liqua-Blaster was issued. Maintenance will initiate an AFE to purchase a 6,000 psi unit for cleaning fouled heat exchangers. TSD will perfect a method for measuring the effect of high pressure water cleaning of the Polyphenyl Tubular Unit before they are put on stream.

The Standby Propane Fuel System was successfully started up on November 10 after replacement of the defective vaporizer tube bundle by the vendor. Some minor items are yet to be completed, such as construction of a permanent test flare. However, the unit has logged over 100 hours of actual plant operation since the year's first gas curtailment on November 23.

HB-40

A PR&D study to develop hydrogenation rate data for WCM at pressures above the currently employed 300 psi has been completed. A report will be issued by 12-6-71.

Pollution Control

The E.P.A. questionnaire (deadline December 1) was completed and submitted to the Washington office November 30. Approximately 14 samples were analyzed for PCB content for the Nitro, W. Va. plant on samples from the calcium M.H.A. department.

Quality Control

The plant quality score was 91.7, up 0.8 from October, with a YTD score of 86.8. November was third successive month showing improvement. Nirax had a perfect score for the second successive month.


J. C. Landwehr

/dp

DSW 162259

STLCOPCB4040869

PLANT LABORATORIESANALYTICAL AND QUALITY CONTROL - S. O. Kemp

Complaint Report

Quality

None

YTD Complaints/100 Shipments 0.275Target 0.20

1970 Manpower/Sample 0.60

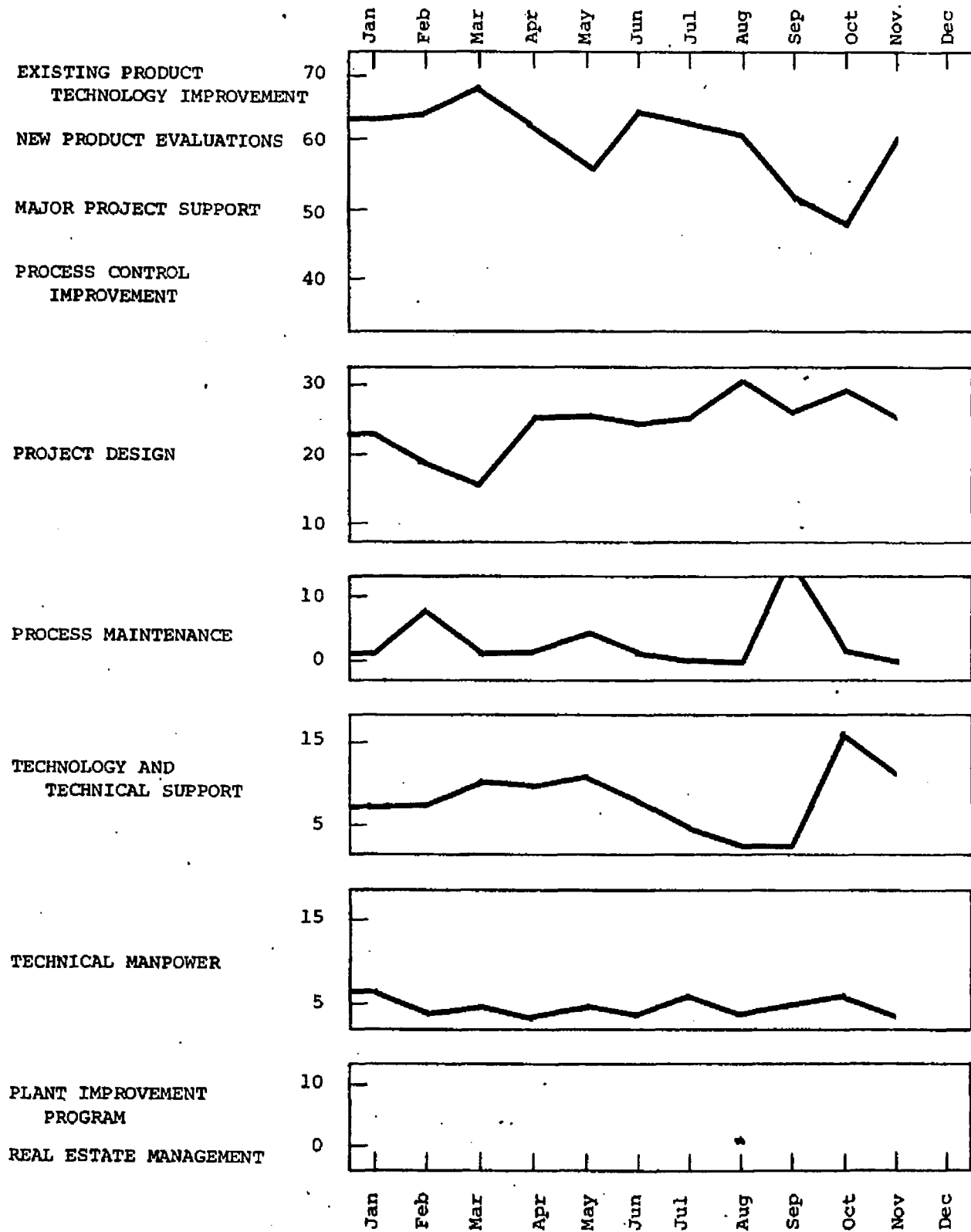
1971 YTD Manpower/Sample 0.40

1970 \$/Manhour 16.50

1971 YTD \$/Manhour 8.53

DSW 162260

1971 DISTRIBUTION OF TIME BY TECHNICAL SERVICE



DSW 162261

The University of Wisconsin

WATER CHEMISTRY LABORATORY
MADISON, WISCONSIN 53706
262-2470
AREA CODE 608

November 28, 1969

Dr. A. M. Ellenburg
Monsanto Chemical Company
800 North Lindbergh Boulevard
St. Louis, Missouri 63166

Dear Dr. Ellenburg:

Current research in this laboratory is concerned with gas chromatographic separations and spectral analyses of mixtures of chlorinated biphenyls. I have communicated with E. P. Wheeler of Monsanto's Environmental Health regarding recent work at Monsanto on the chlorinated biphenyl (Arochlor mixtures). Dr. Wheeler explained that he was not familiar with the current literature I referred to, and suggested that I contact personnel in Organic Research.

I have followed the work of H. I. Weingarten of Dayton which is concerned with the lower chlorinated biphenyl mixtures (i.e., U. S. Patents 3,068,297, *Analytica Chimica Acta* 26, 391-394 (1962), etc.). In the 1962 *Analytica Chimica Acta* paper, Dr. Weingarten acknowledged you as the source of 2,2'-, 2,4'-, and 4,4'-dichloro isomers for his work.

My purpose in writing is to inquire into the availability of reasonably pure samples (milligrams) of the chlorinated biphenyl isomers. I am also interested in chemical and spectral data on the chlorinated biphenyls which are more meaningful than the data presented in the technical bulletins.

Please advise me concerning the possibility of this laboratory receiving samples of chlorinated biphenyl isomers, and any data which can be released. Thank you for your assistance.

Sincerely yours,

G. Fred Lee, Professor
Water Chemistry

GFL/js

cc: E. P. Wheeler

DSW 162262