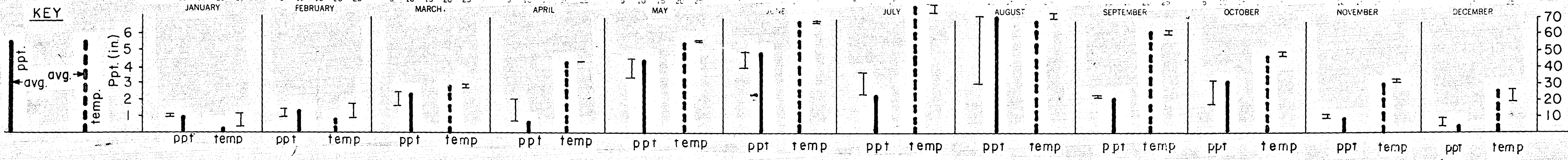
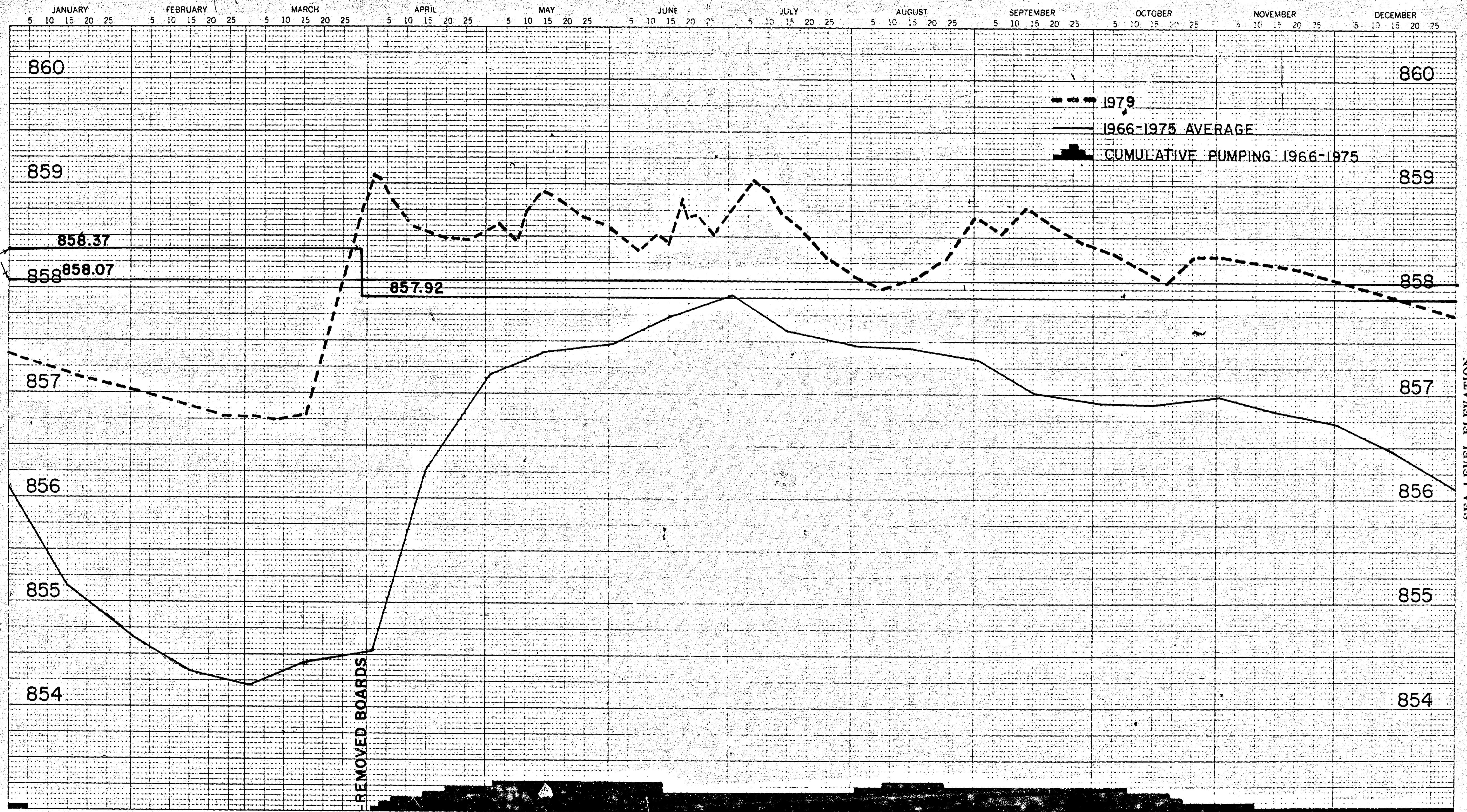


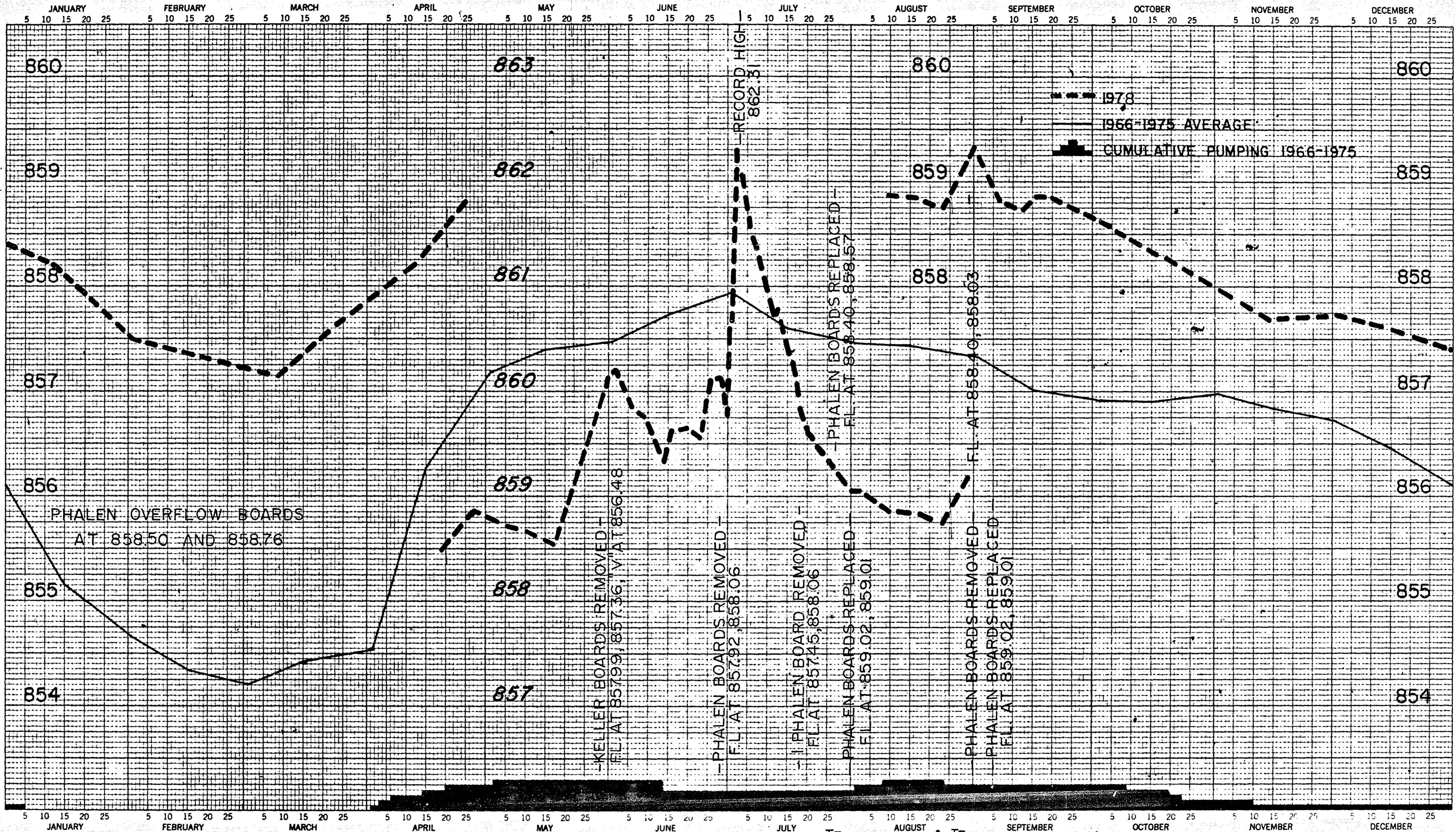
Precipitation This Year 31.07 Area in Acres at Normal Elevation 225 Pump: On Off On Off Lake PHALEN Year 1979
 Normal Precipitation 25.94 Gallons Equiv. to One Foot on Lake 71.311 M.G. High 858.75 859.35 856.20 858.30 Historical (1924-79) (1966-79)
 Excess-Deficiency +5.13 Pumping Days/One Foot Rise 510 Low 849.99 854.55 849.99 855.50 High 862.31 7/03/78 862.31 7/03/78
 Pump No 20 Capacity 1000 G.P.M. DNR Limit: NONE Avg. 855.99 857.51 852.48 856.85 Low 849.99 4/07/70 849.99 4/07/70

47 2813

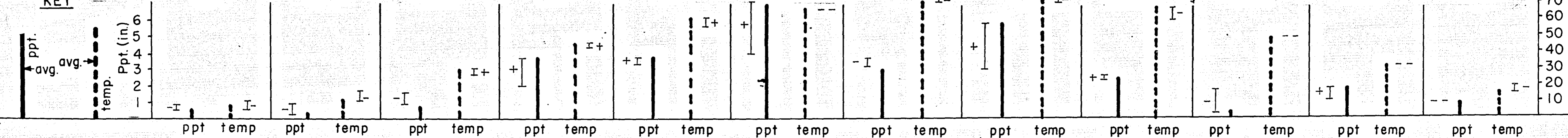
KEY
 1 YEAR BY DAYS X 100 DIVISIONS
 REDIFEL & ESSER CO. W. N. O. A.



Precipitation This Year 33.88 Area in Acres at Normal Elevation 225 Pump: (1926-75) (1966-75) Lake PHALEN Year 1978
 Normal Precipitation 24.78 Gallons Equiv. to One Foot on Lake 71.311 M.G. High 858.75 859.35 856.20 858.30 Historical (1924-78) (1966-78)
 Excess-Deficiency +9.10 Pumping Days/One Foot Rise 51.0 Low 849.99 854.55 849.99 855.50 High 862.31 7/03/78 862.31 7/03/78
 Pump No. 20 Capacity 1000 G.P.M. DNR Limit: NONE Avg. 855.99 857.51 852.48 856.85 Low 849.99 4/07/70 849.99 4/07/70



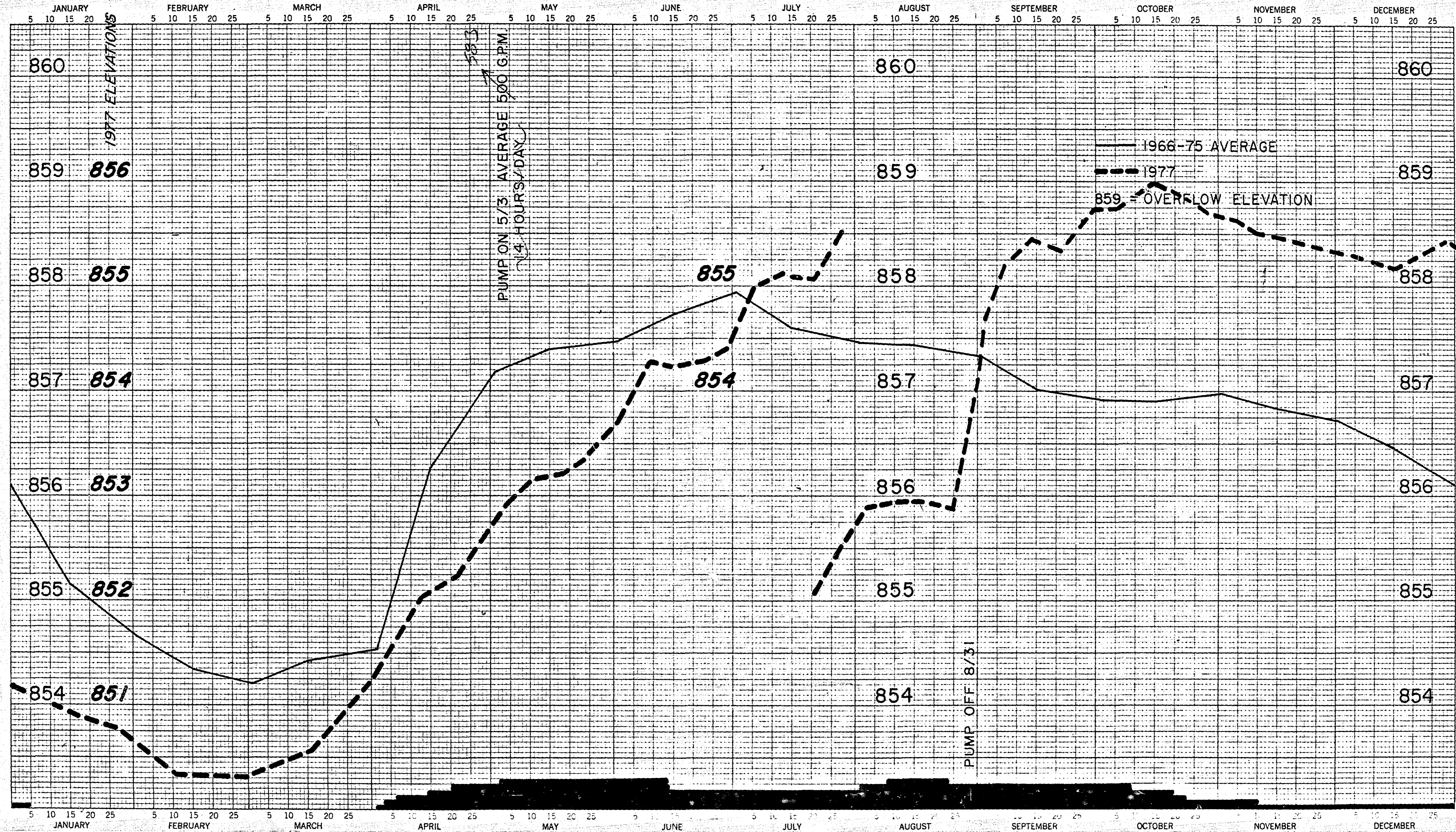
KEY



K&S 1 YEAR BY DAYS X 150 DIVISIONS KEUFFEL & ESSER CO. MADE IN U.S.A.

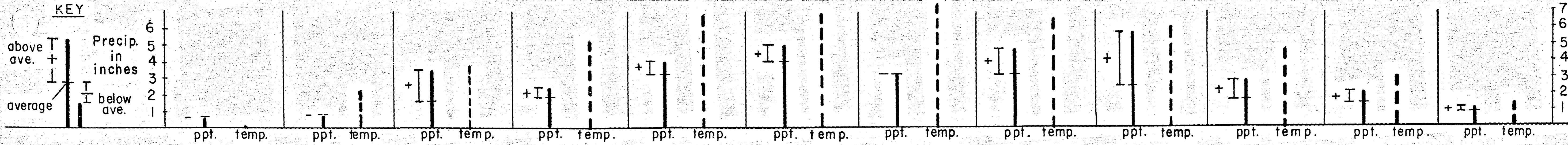
47 2813

Precipitation This Year 36.03 Area in Acres at Normal Elevation 225 Pump: (1926-75) (1966-75)
 Normal Precipitation 24.78 Gallons Equiv. to One Foot on Lake 71.311 M.G. High 858.75 859.35 856.20 858.30 Lake PHALEN Year 1977
 Excess-Deficiency +11.25 Pumping Days/One Foot Rise 51.0 Low 849.99 854.55 849.99 855.50 Historical (1924-77) (1966-77)
 Pump No. 20 Capacity 1000 G.P.M. DNR Limit: NONE Avg. 855.99 857.51 852.48 856.85 Low 849.99 4/07/70 849.99 4/07/70



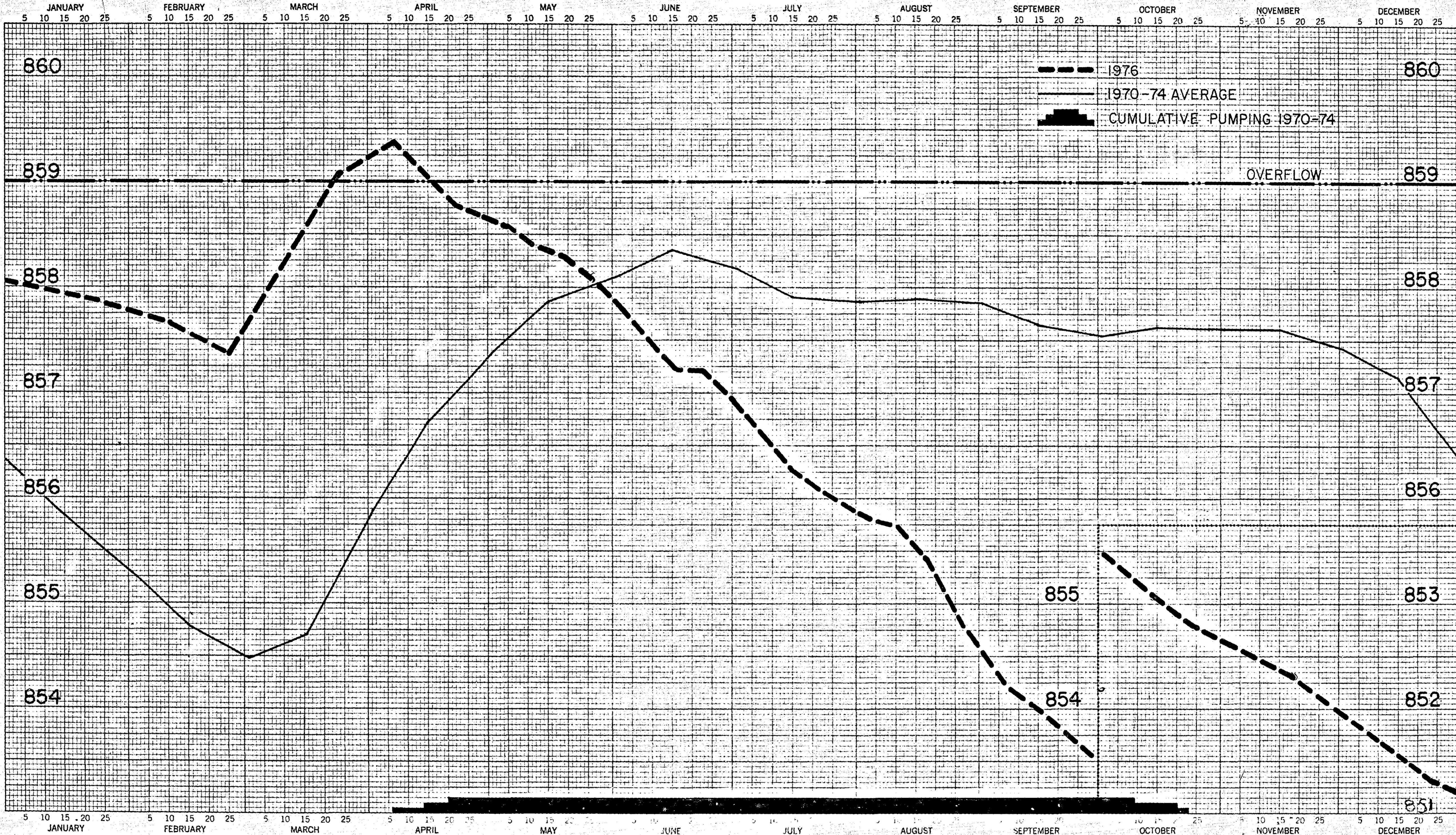
47 2813

1 YEAR BY DAYS X 150 DIVISIONS
 KEUFFEL & ESSER CO. MADE IN U.S.A.



HISTORICAL

Precipitation This Year _____ HIGH LOW Area in Acres at Normal Elevation 225 PUMP: ON OFF
 Normal Precipitation _____ 861.70 849.99 Gallons Equiv. to One Foot on Lake 71.311 M.G. HIGH 853.87 856.61 Lake **PHALEN** Year **1976**
 Cum. Excess-Deficiency _____ 6/03/42 4/07/70 Ratio: Watershed to Lake Area _____ LOW 850.00 850.25
 (Since 1924) _____ AVG. 850.75 853.00 OFFICE OF
 FORM NO. LI-101 PUMP NO. 20 CAPACITY 1000 G.P.M. PUMPING DAYS / ONE FOOT RISE 51.0 RAMSEY COUNTY ENGINEER
 Sheet No. _____



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K&E 1 YEAR BY DAYS X 150 DIVISIONS KEUFFEL & ESSER CO. MADE IN U.S.A.

- 83 -

Month	K.W. Demand	K.W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

Month	K.W. Demand	K.W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

Month	K.W. Demand	K.W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

Pumping Costs This Year _____ Cum. Pumping Cost _____
 Mil. Gals. Pumped This Year _____ Cum. M. G. Pumped _____
 Equiv. on Lake in Ft. This Year _____ Cum. Equiv. on Lake in Ft. _____
 K. W. H. Consumed This Year _____ Cum. K. W. H. _____
 Av. Costs Per K. W. H. This Year _____ Cum. Av. Cost Per K. W. H. _____
 Av. Costs Per M. G. Pumped This Year _____ Cum. Av. Costs Per M. G. Pumped _____