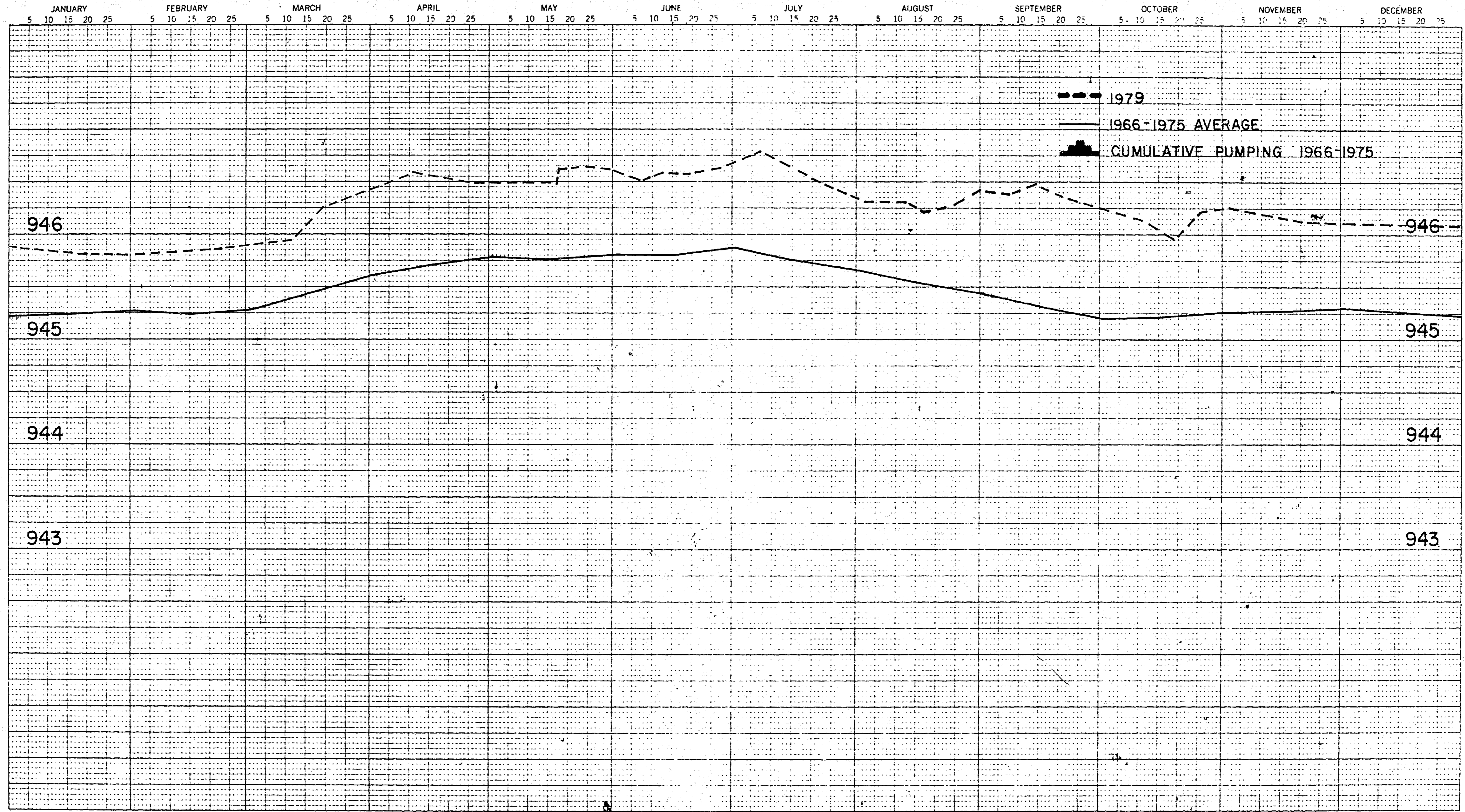


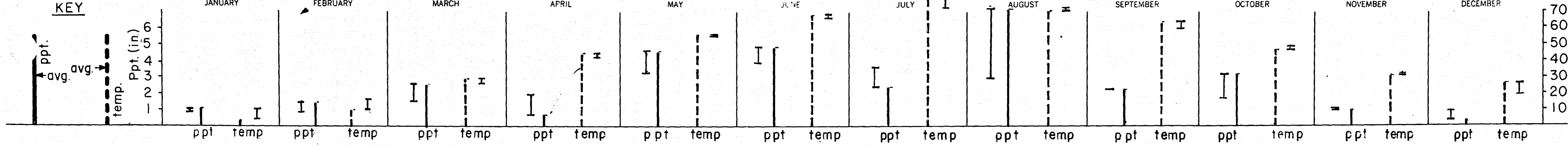
Precipitation This Year 31.07 Area in Acres at Normal Elevation 58.8 Pump: (1958-75) On Off (1966-75) On Off Lake ISLAND Year 1979  
 Normal Precipitation 25.94 Gallons Equiv. to One Foot on Lake 19.159 M.G High 943.75 944.25 Pump Last Run in Historical (1924-32) (1966-79)  
 Excess-Deficiency +5.13 Pumping Days/One Foot Rise 26.6 Low 941.65 943.55 1965 High 947.66 7/02/75 947.66 7/02/75  
 Pump No. 18 Capacity 500 G.P.M. DNR Limit : \_\_\_\_\_ Avg. 943.16 943.86 Low LO-DRY 938.40 1930's 944.00 9/30/70

47 2813



K&E 1 YEAR BY DAYS X 1/8 DIVISIONS KEUFFEL & ESSLER CO. W. VA.

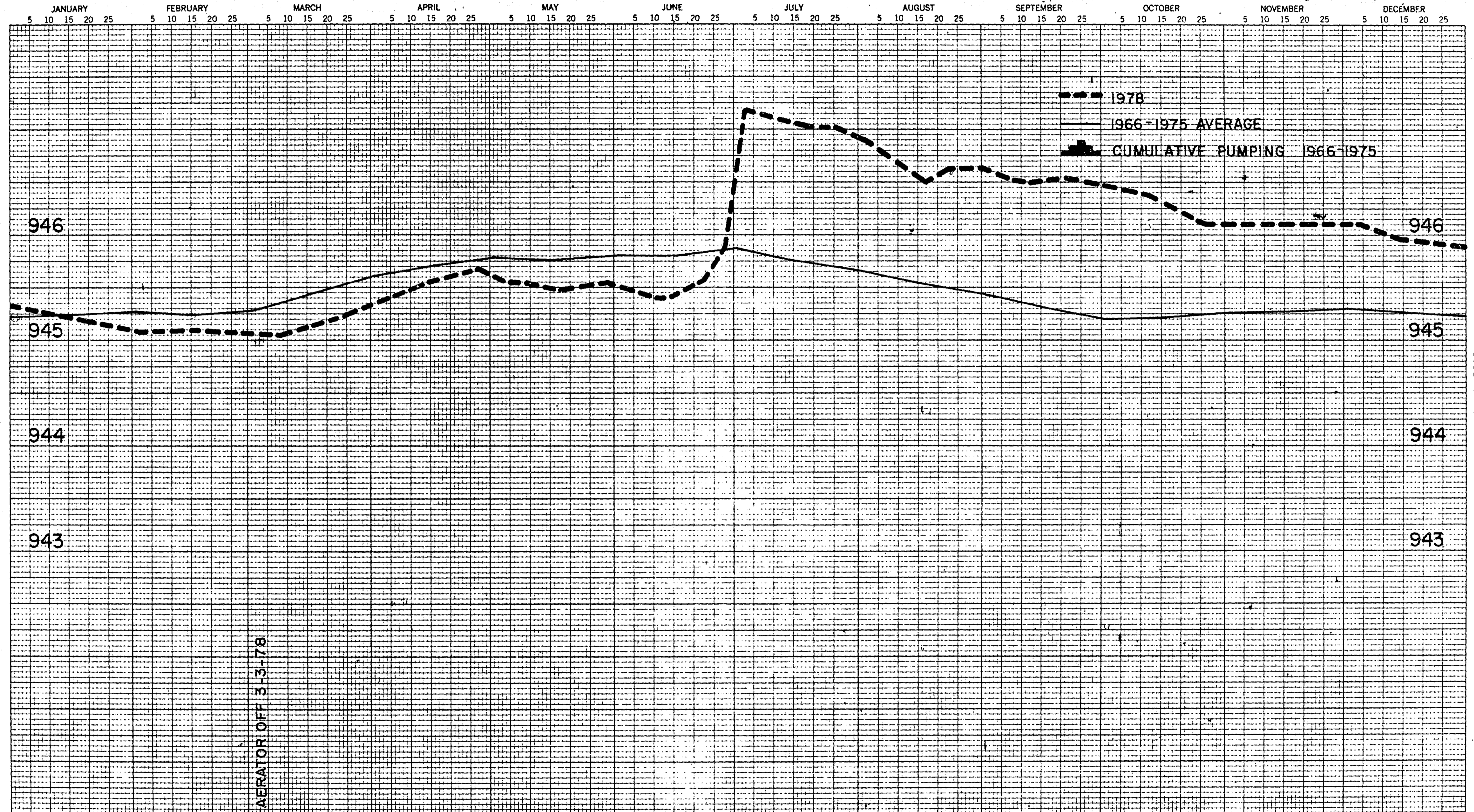
KEY



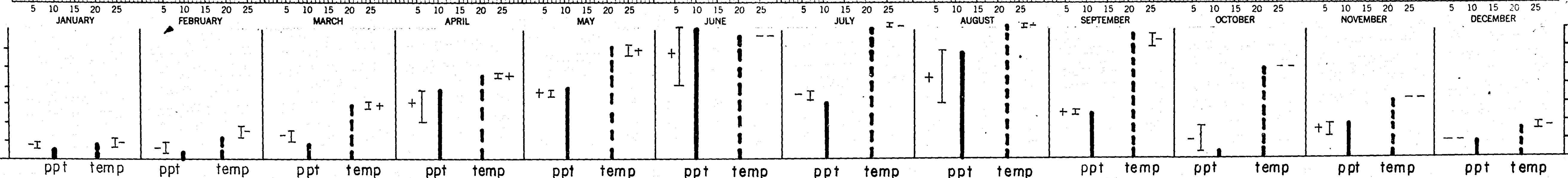
Precipitation This Year 33.88 Area in Acres at Normal Elevation 58.8 Pump: (1958-75) (1966-75)  
 Normal Precipitation 24.78 Gallons Equiv. to One Foot on Lake 19.159 M.G. High 943.75 944.25 On Off On Off Lake **ISLAND** Year **1978**  
 Excess-Deficiency +9.10 Pumping Days/One Foot Rise 26.6 Low 941.65 943.55 Pump Last Run in Historical (1924-32) (1952-78) (1966-78)  
 Pump No. 18 Capacity 500 G.P.M. DNR Limit: \_\_\_\_\_ Avg. 943.16 943.86 1965 High 947.66 7/02/75 947.66 7/02/75  
 Low LO-DRY 938.40 1930's 944.00 9/30/70

47 2813

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



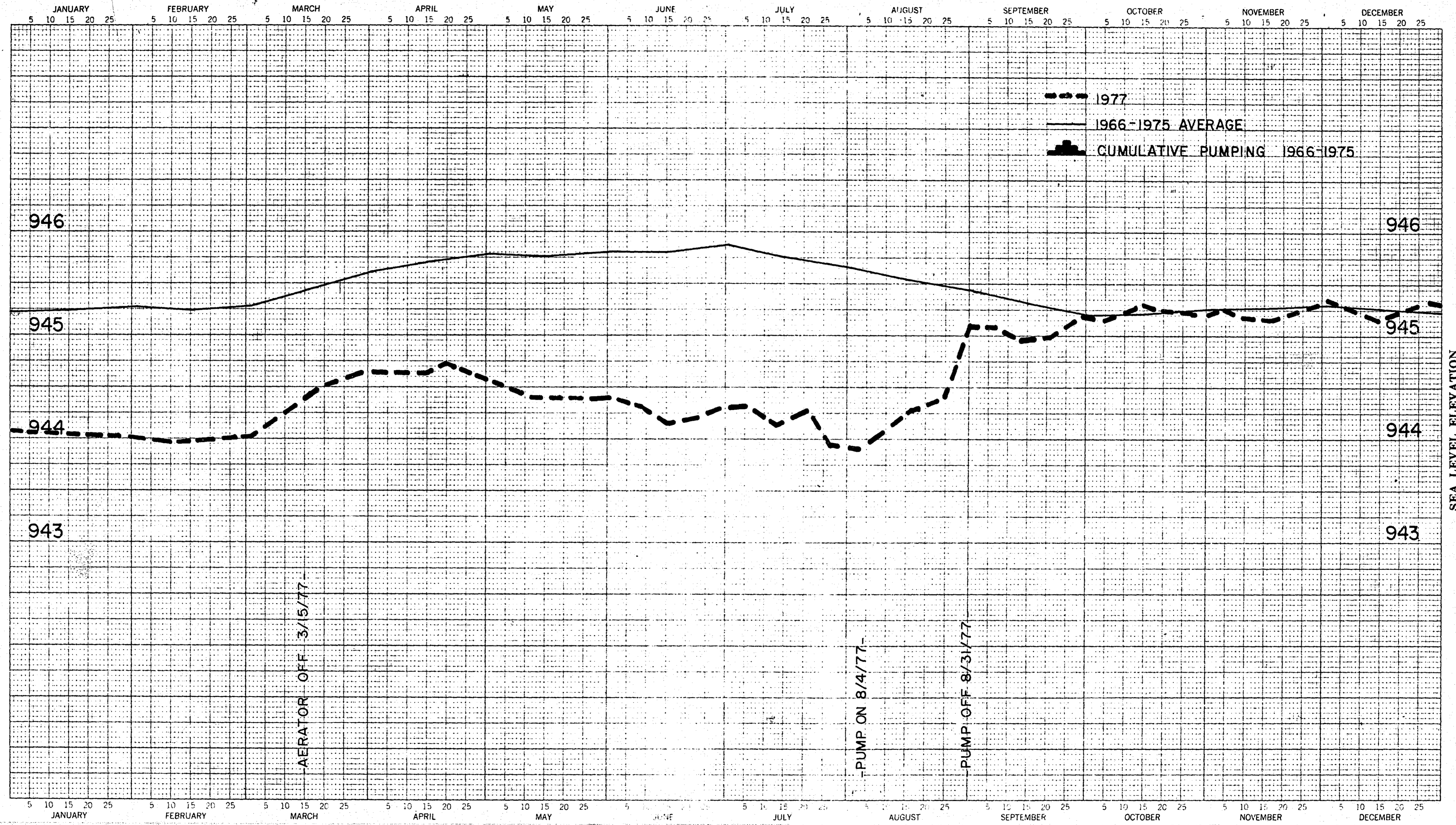
KEY



Precipitation This Year 36.03 Area in Acres at Normal Elevation 58.8 Pump: (1958-75) (1966-75)  
 Normal Precipitation 24.78 Gallons Equiv. to One Foot on Lake 19.159 M.G High 943.75 944.25 Pump Last Run in Historical (1924-32) (1966-77)  
 Excess-Deficiency +11.25 Pumping Days/One Foot Rise 26.6 Low 941.65 943.55 1965 High 947.66 7/02/75 947.66 7/02/75  
 Pump No. 18 Capacity 500 G.P.M. DNR Limit : \_\_\_\_\_ Avg. 943.16 943.86 Low LO-DRY 938.40 1930's 943.96 2/10/77

Lake **ISLAND**

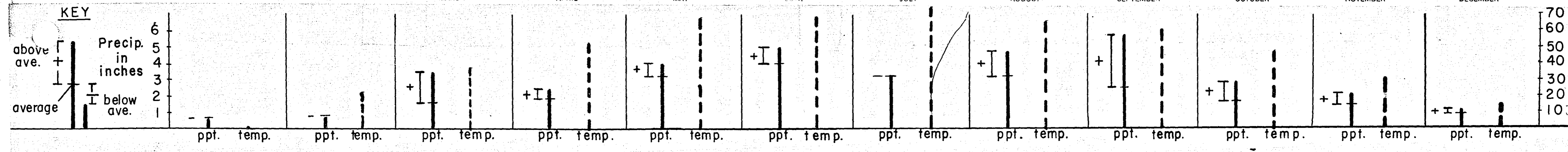
Year **1977**



47 2813

-34-

1 YEAR BY DAYS X 150 DIVISIONS  
 KEUTTEL & ESSER CO. W. V. I.



HISTORICAL

PUMP: ON OFF

Precipitation This Year \_\_\_\_\_  
 Normal Precipitation \_\_\_\_\_  
 Cum. Excess-Deficiency \_\_\_\_\_  
 (Since 1924)

HIGH LOW  
 947.66 938.40  
 7/02/75 1930's

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19.159 M.G.  
 Ratio: Watershed to Lake Area \_\_\_\_\_

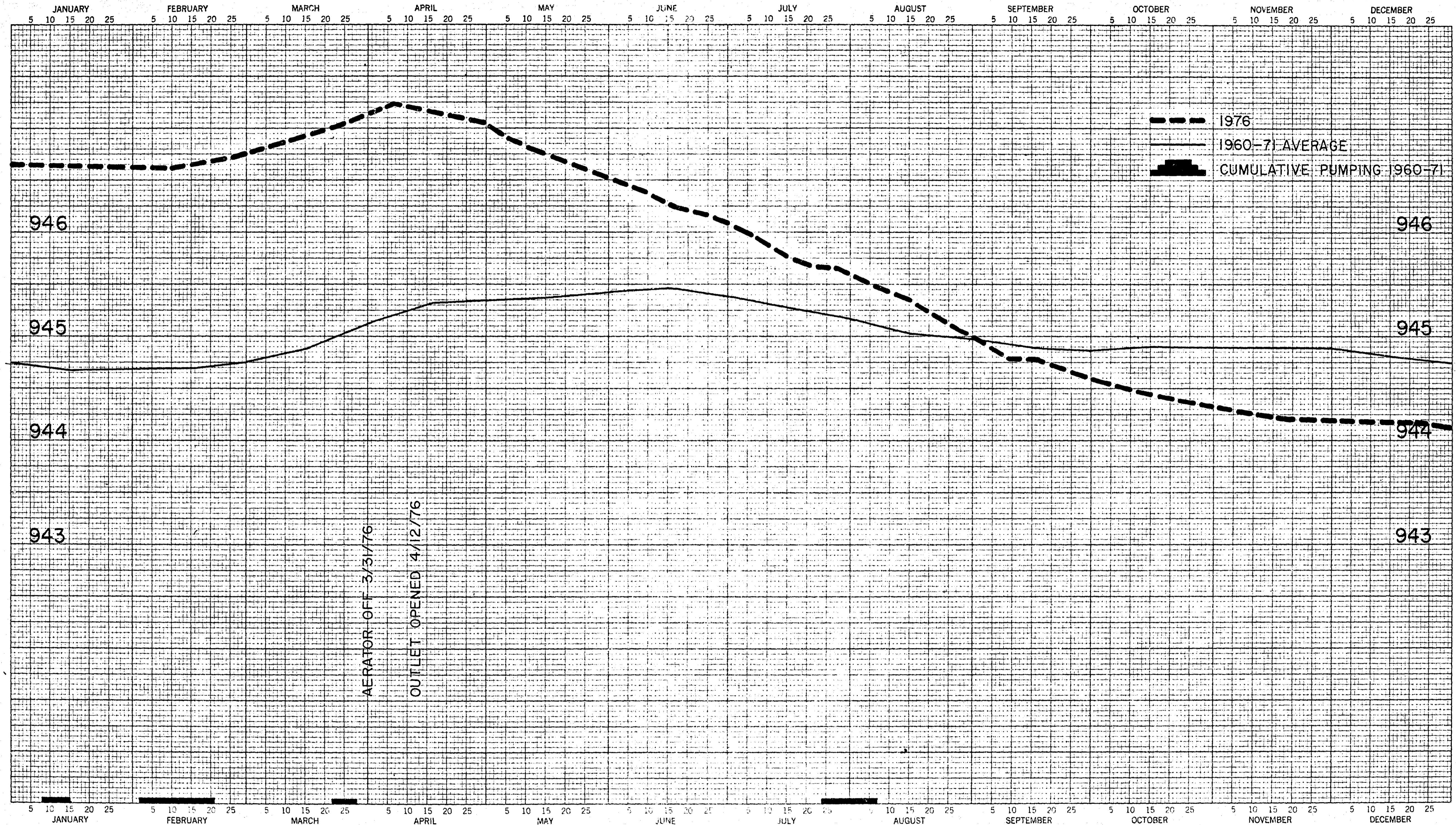
HIGH LOW AVG.  
 NOT PUMPED  
 1960-1971

Lake ISLAND Year 1976

OFFICE OF  
**RAMSEY COUNTY ENGINEER**

Sheet No. \_\_\_\_\_

FORM NO. LI-101 PUMP NO. 18 CAPACITY 500 G.P.M. PUMPING DAYS / ONE FOOT RISE 266



47 2813

-28-

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

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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 K. W. H. Consumed This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_  
 Cum. M. G. Pumped \_\_\_\_\_  
 Cum. Equiv. on Lake in Ft. \_\_\_\_\_  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_

Precipitation This Year \_\_\_\_\_

Area in Acres at Normal Elevation 58.8

Lake ISLAND Year 1975

Normal Precipitation \_\_\_\_\_

Gallons Equiv. to One Foot on Lake 19,120,000

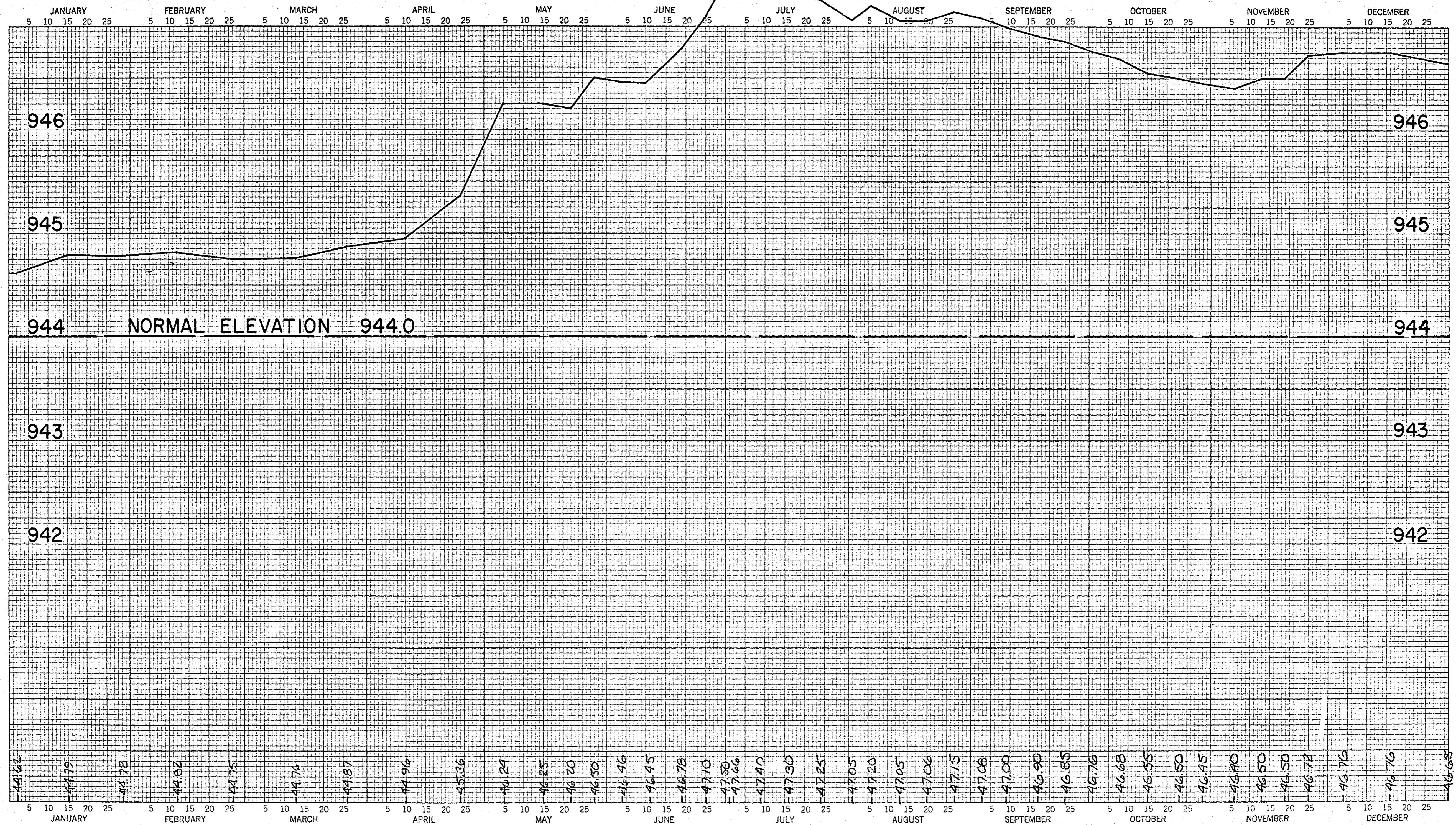
OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency \_\_\_\_\_  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 to 1

Sheet No. \_\_\_\_\_

FORM NO. LI-101



47 2813

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

SEA LEVEL ELEVATION

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 \_\_\_\_\_

Mil. Gals. Pumped This Year \_\_\_\_\_

Equiv. on Lake in Ft. This Year \_\_\_\_\_

K. W. H. Consumed This Year \_\_\_\_\_

Av. Costs Per K. W. H. This Year \_\_\_\_\_

Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_

Cum. M. G. Pumped \_\_\_\_\_

Cum. Equiv. on Lake in Ft. \_\_\_\_\_

Cum. K. W. H. \_\_\_\_\_

Cum. Av. Cost Per K. W. H. \_\_\_\_\_

Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_

Precipitation This Year \_\_\_\_\_

Area in Acres at Normal Elevation 58.8

Lake ISLAND Year 1974

Normal Precipitation \_\_\_\_\_

Gallons Equiv. to One Foot on Lake 19,120,000

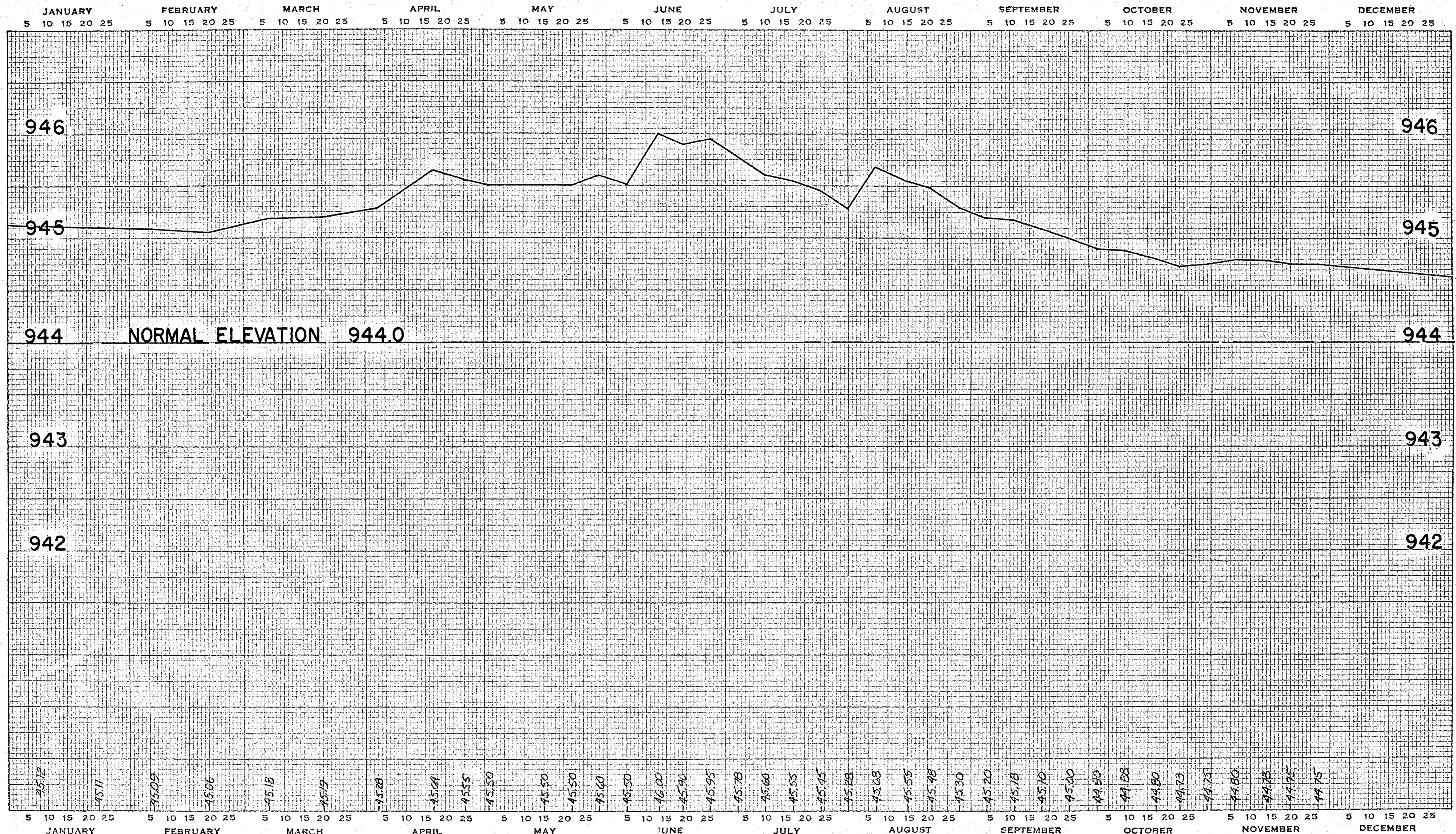
OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency \_\_\_\_\_  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 to 1

Sheet No. \_\_\_\_\_

DAILY RECORD SHEET



KEUFFEL & ESSER CO., N. Y. NO. 339-1411  
One Year by Days, Calendar Year.  
Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_  
 Cum. M. G. Pumped \_\_\_\_\_  
 Cum. Equiv. on Lake in Ft. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_

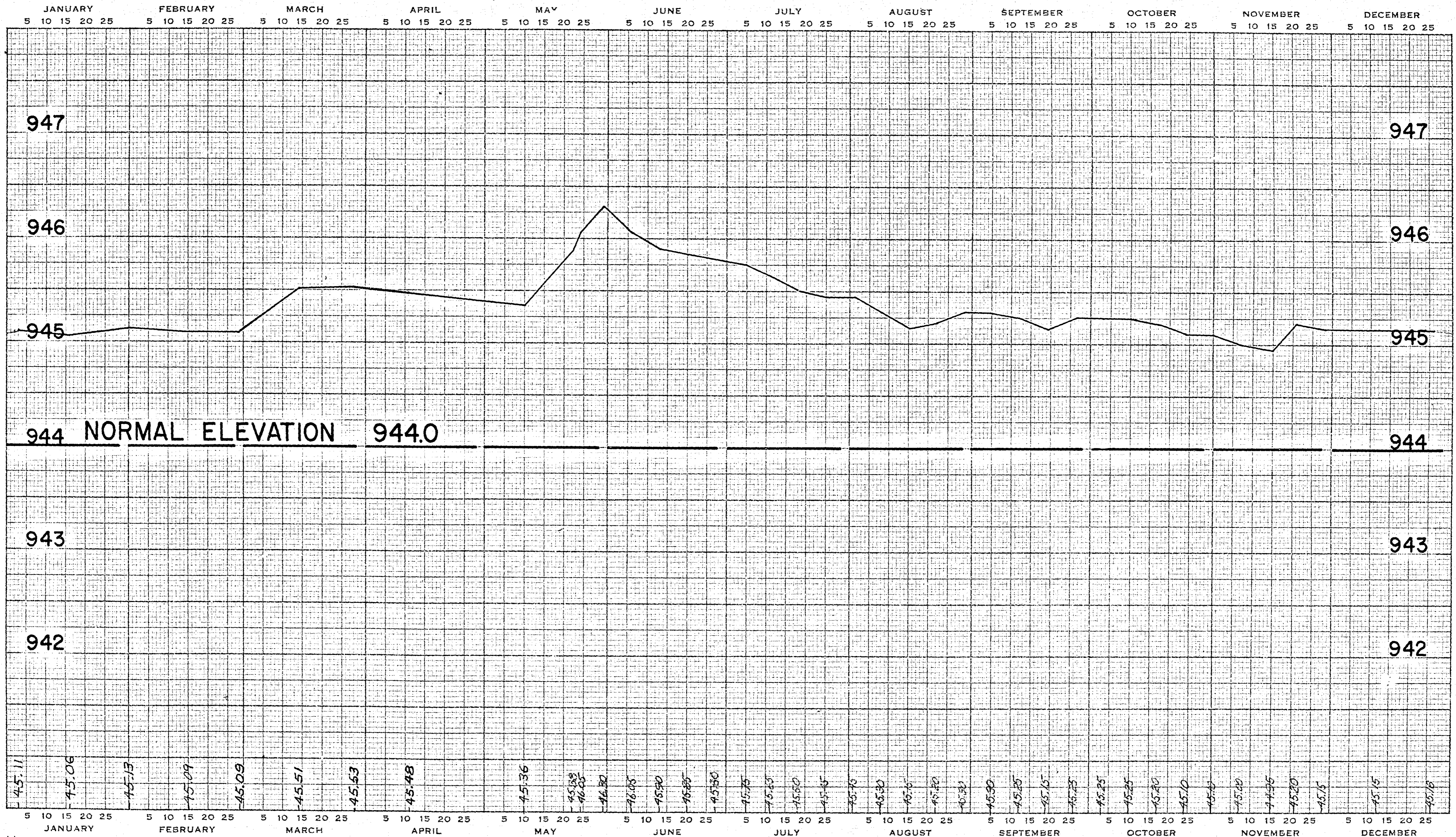
Precipitation This Year 29.44  
 Normal Precipitation 24.78  
 Cum. Excess-Deficiency -3.22  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,000  
 Ratio: Watershed to Lake Area 2.63 to 1

Lake ISLAND Year 1973

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS X 180 DIVINS. 359-141L  
 KEUFFEL & ESSER CO. MADE IN U.S.A.  
 CALENDAR YEAR

SEA LEVEL ELEVATION

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

PUMP NO.

PUMP NO.

PUMP NO.

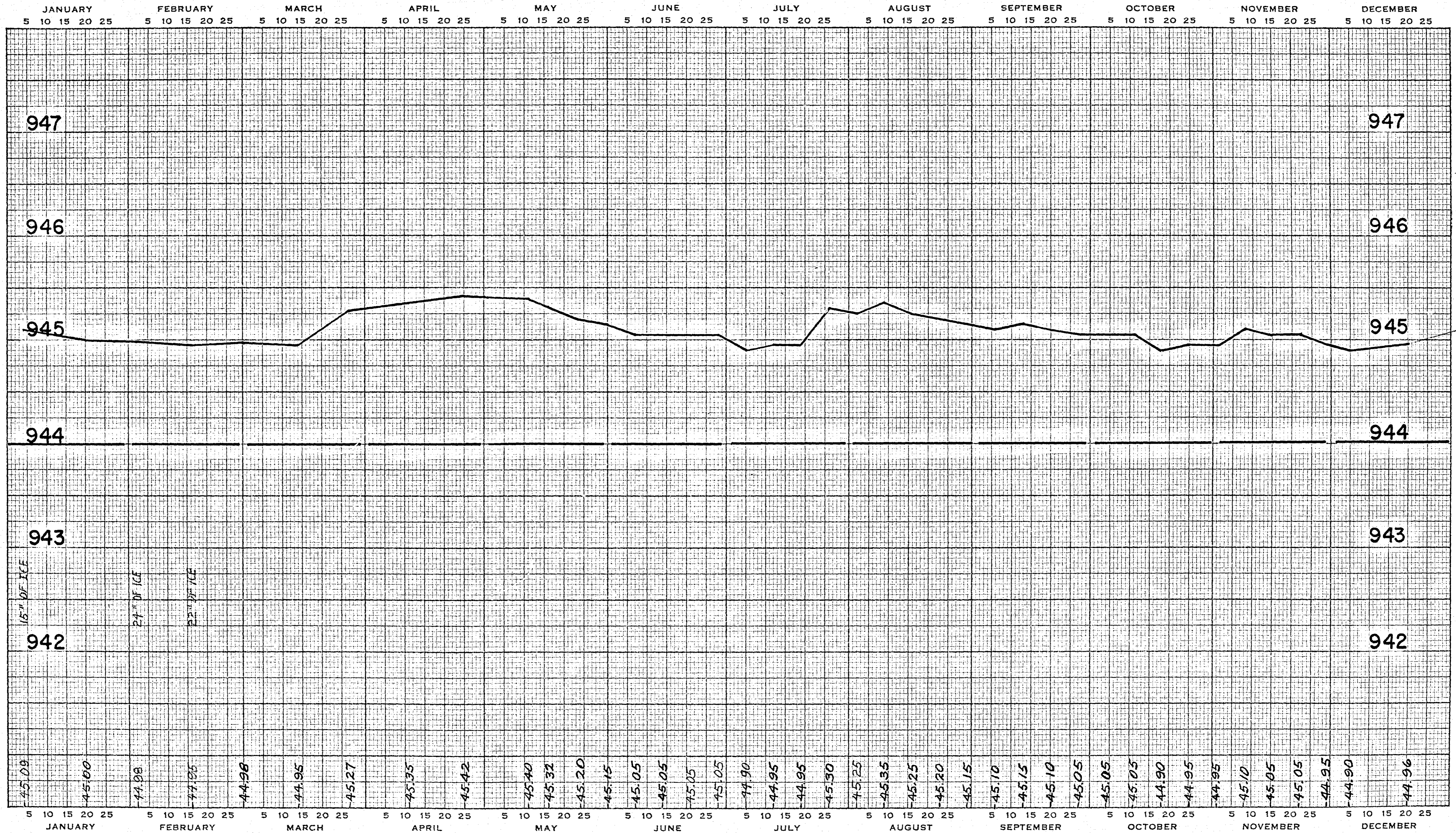
Precipitation This Year \_\_\_\_\_  
 Normal Precipitation \_\_\_\_\_  
 Cum. Excess-Deficiency \_\_\_\_\_  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 TO 1

Lake ISLAND Year 1972

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS 47 2813  
 X 150 DIVISIONS MADE IN U. S. A.  
 KEUFFEL & ESSER CO.

SEA LEVEL ELEVATION

PUMP NO. 18

Month	K.W. Demand	K.W. Consumed	Total Cost
JAN.			
FEB.		10.14	1.22
MAR.		20.35	37.71
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL		30.49	56.63

PUMP NO.

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

PUMP NO.

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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 K. W. H. Consumed This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_  
 Cum. M. G. Pumped \_\_\_\_\_  
 Cum. Equiv. on Lake in Ft. \_\_\_\_\_  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_



Precipitation This Year \_\_\_\_\_

Area in Acres at Normal Elevation 58.8

Lake ISLAND Year 1971

Normal Precipitation \_\_\_\_\_

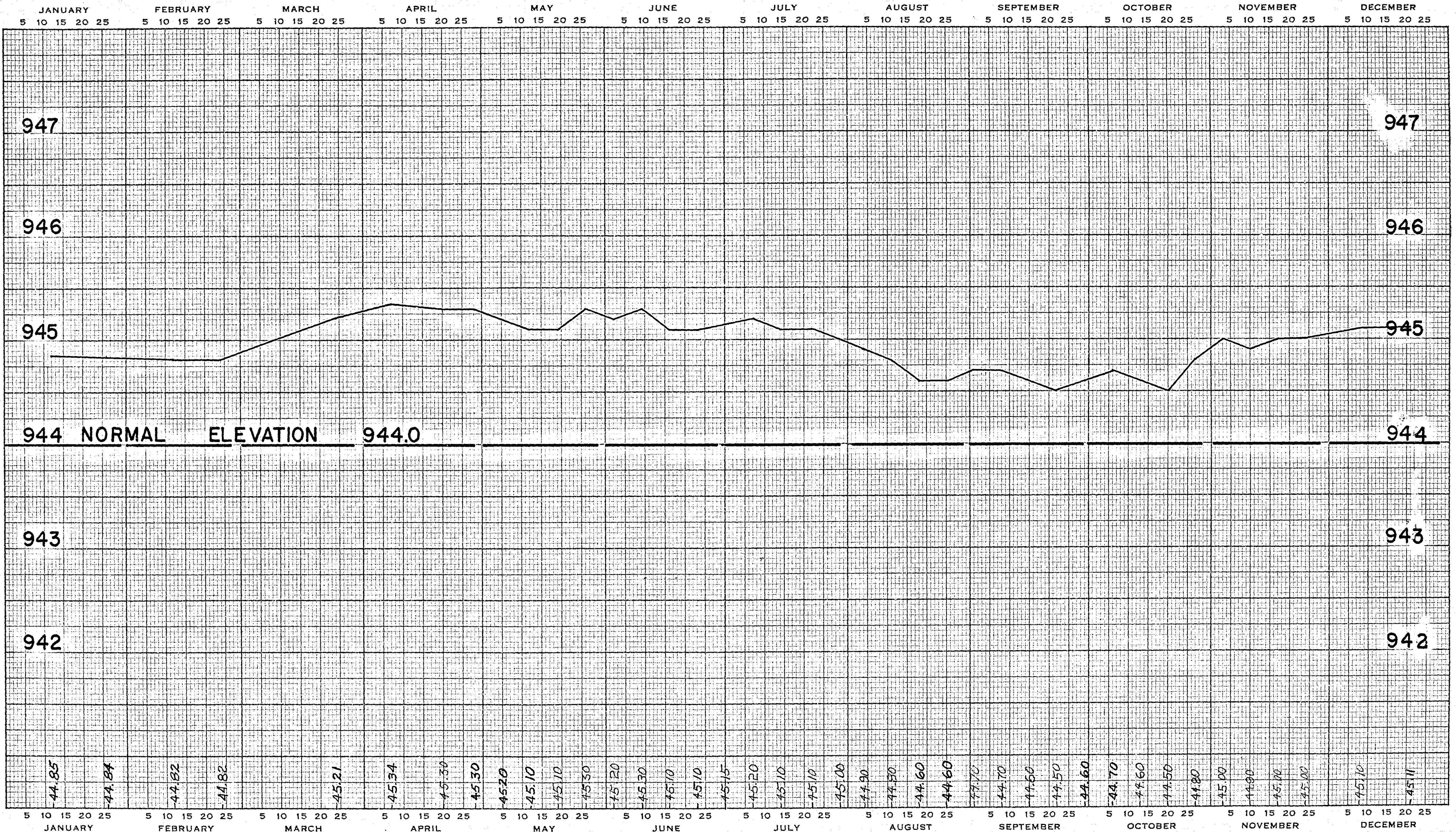
Gallons Equiv. to One Foot on Lake 19,120,000

OFFICE OF  
**RAMSEY COUNTY ENGINEER**

Cum. Excess-Deficiency \_\_\_\_\_  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 to 1

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS 47 2813  
X 150 DIVISIONS  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.

SEA LEVEL ELEVATION

PUMP NO.	Month	K.W. Demand	K.W. Consumed	Total Cost
	JAN			
	FEB			
	MAR			
	APR			
	MAY			
	JUNE			
	JULY			
	AUG			
	SEPT			
	OCT			
	NOV			
	DEC			
	TOTAL			

PUMP NO.	Month	K.W. Demand	K.W. Consumed	Total Cost
	JAN			
	FEB			
	MAR			
	APR			
	MAY			
	JUNE			
	JULY			
	AUG			
	SEPT			
	OCT			
	NOV			
	DEC			
	TOTAL			

PUMP NO.	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 \_\_\_\_\_

Mil. Gals. Pumped This Year \_\_\_\_\_

Equiv. on Lake in Ft. This Year \_\_\_\_\_

K. W. H. Consumed This Year \_\_\_\_\_

Av. Costs Per K. W. H. This Year \_\_\_\_\_

Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost 1,129.13

Cum. M. G. Pumped 100.08

Cum. Equiv. on Lake in Ft. 5.22

Cum. K. W. H. \_\_\_\_\_

Cum. Av. Cost Per K. W. H. \_\_\_\_\_

Cum. Av. Costs Per M. G. Pumped 11.28

Precipitation This Year 30.53

Area in Acres at Normal Elevation 58.8

Lake ISLAND Year 1970

Normal Precipitation 24.78

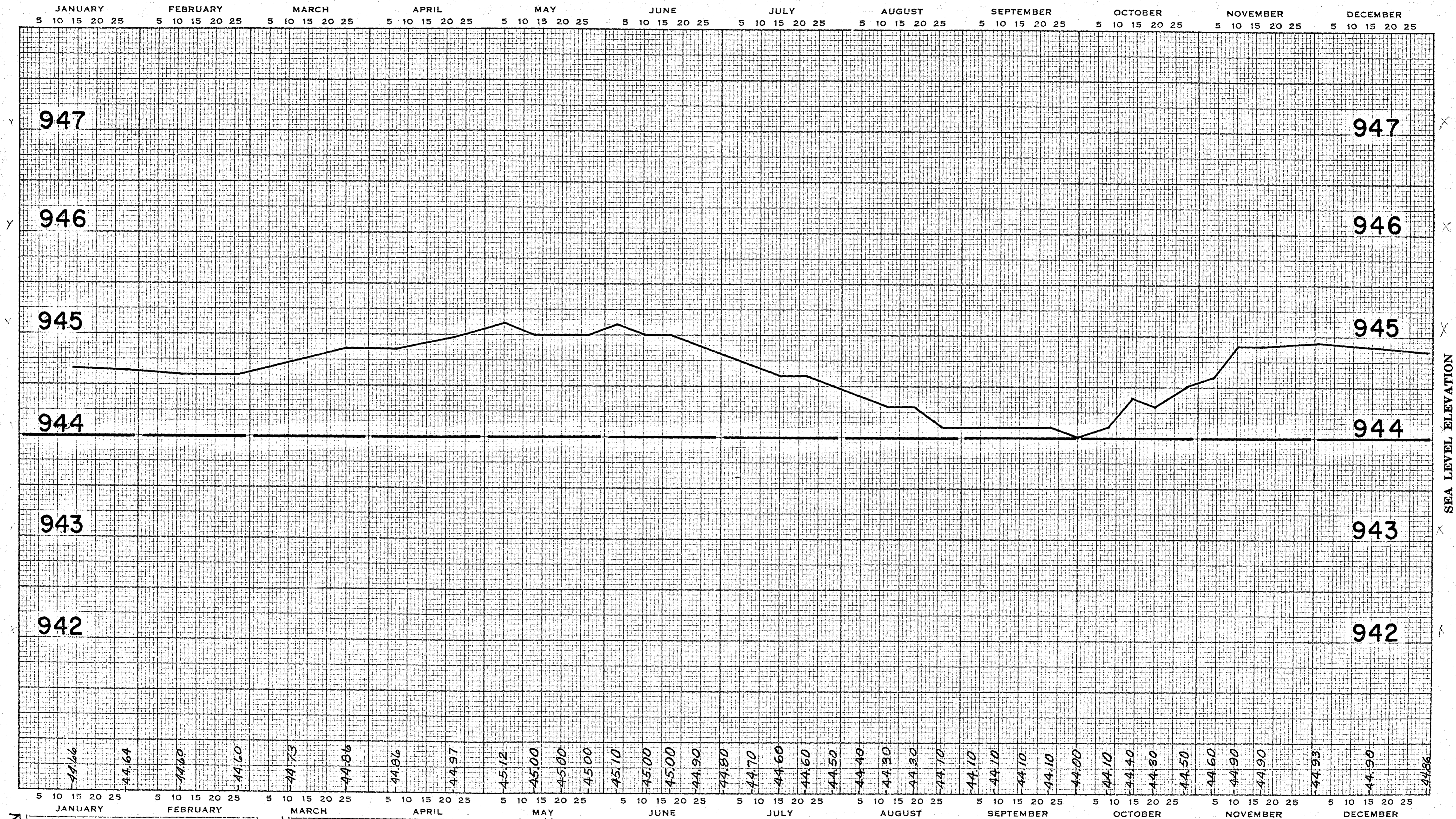
Gallons Equiv. to One Foot on Lake 9,120,200

OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -7.88  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 TO 1

Sheet No. \_\_\_\_\_



Month	K.W. Demand	K.W. Consumed	Total Cost
JAN.			
FEB.		1471	25.76
MAR.		2012	34.89
APR.		67	1.12
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL		3610	60.77

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			

AREATION		AREATION
Pumping Costs This Year	<u>60.77</u>	Cum. Pumping Cost <u>1,129.13</u>
Mil. Gals. Pumped This Year		Cum. M. G. Pumped <u>100.08</u>
Equiv. on Lake in Ft. This Year		Cum. Equiv. on Lake in Ft. <u>5.22</u>
K. W. H. Consumed This Year	<u>3610</u>	Cum. K. W. H. _____
Av. Costs Per K. W. H. This Year	<u>.0168</u>	Cum. Av. Cost Per K. W. H. _____
Av. Costs Per M. G. Pumped This Year		Cum. Av. Costs Per M. G. Pumped <u>11.28</u>

1 YEAR BY DAYS 47 2813  
 X 150 DIVISIONS  
 KEUFFEL & ESSER CO.

Precipitation This Year 19.39

Area in Acres at Normal Elevation 58.8

Lake ISLAND Year 1969

Normal Precipitation 24.78

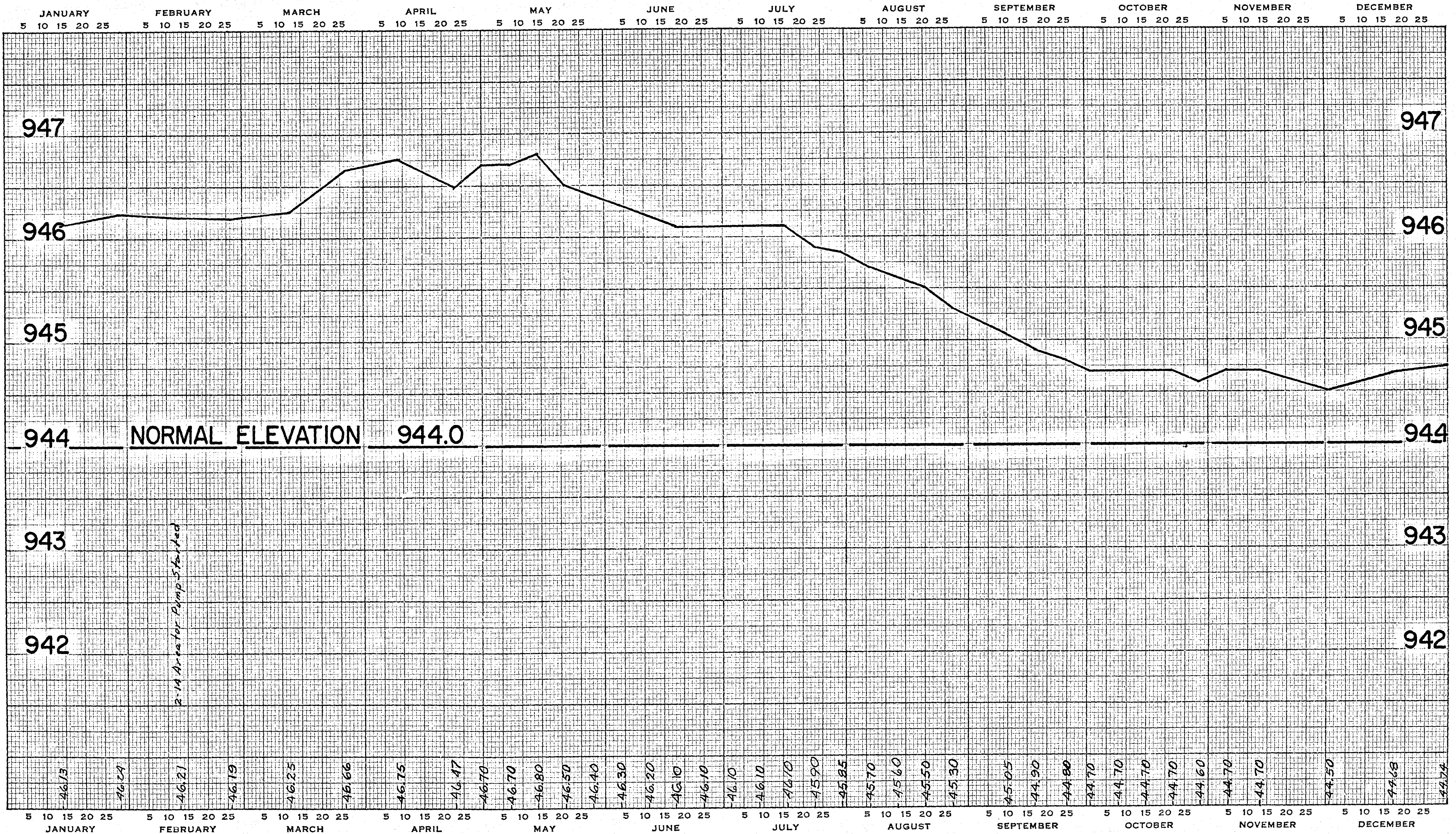
Gallons Equiv. to One Foot on Lake 19,120,200

OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -13.63  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 TO 1

Sheet No. \_\_\_\_\_



K&E 1 YEAR BY DAYS 47 2813 MADE IN U.S.A. KEUFFEL & ESSER CO.

SEA LEVEL ELEVATION

Month	K.W. Demand	K.W. Consumed	Total Cost
JAN.			
FEB.		949	15.78
MAR.		2102	34.93
APR.		203	3.38
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
<b>TOTAL</b>		<b>3254</b>	<b>54.09</b>

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

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

Pumping Costs This Year	<u>54.09</u>	Cum. Pumping Cost	<u>65.87</u>	<u>1129.13</u>
Mil. Gals. Pumped This Year	<u>0</u>	Cum. M. G. Pumped	<u>100.08</u>	
Equiv. on Lake in Ft. This Year	<u>0</u>	Cum. Equiv. on Lake in Ft.	<u>5.22</u>	
K. W. H. Consumed This Year	<u>3254</u>	Cum. K. W. H.		
Av. Costs Per K. W. H. This Year	<u>.0166</u>	Cum. Av. Cost Per K. W. H.		
Av. Costs Per M. G. Pumped This Year	<u>-</u>	Cum. Av. Costs Per M. G. Pumped	<u>11.28</u>	

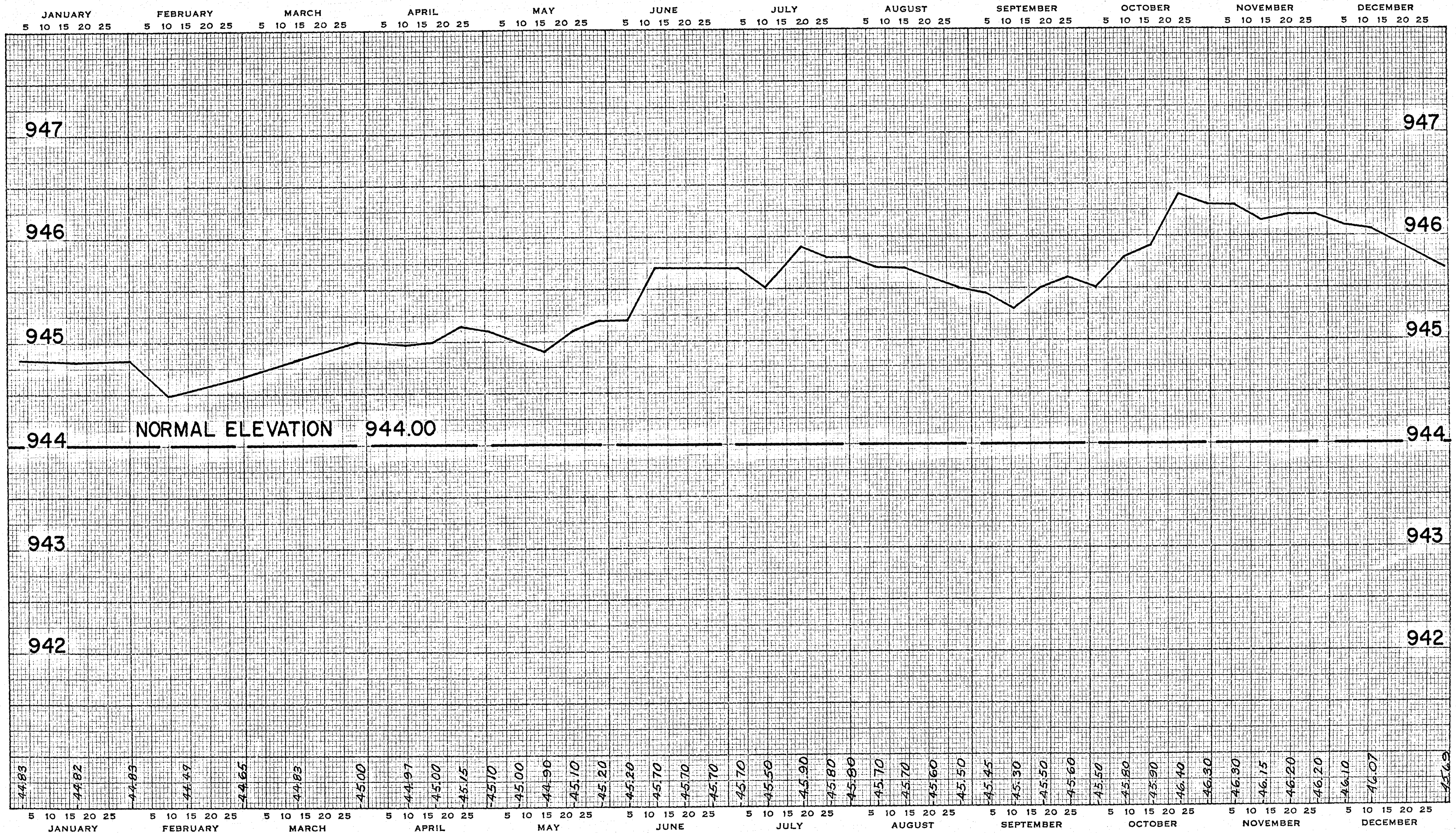
Precipitation This Year 37.93  
 Normal Precipitation 24.78  
 Cum. Excess-Deficiency -8.24  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 to 1

Lake **ISLAND** Year **1968**

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS 47 2813  
 X 150 DIVISIONS  
 MADE IN U.S.A.  
 KEUFFEL & ESSER CO.

SEA LEVEL ELEVATION

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 <u>11.78</u>	<u>1129.13</u>
Mil. Gals. Pumped This Year _____	Cum. M. G. Pumped _____	<u>100.08</u>
Equiv. on Lake in Ft. This Year _____	Cum. Equiv. on Lake in Ft. _____	<u>522</u>
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 _____	<u>11.28</u>

AEKATION

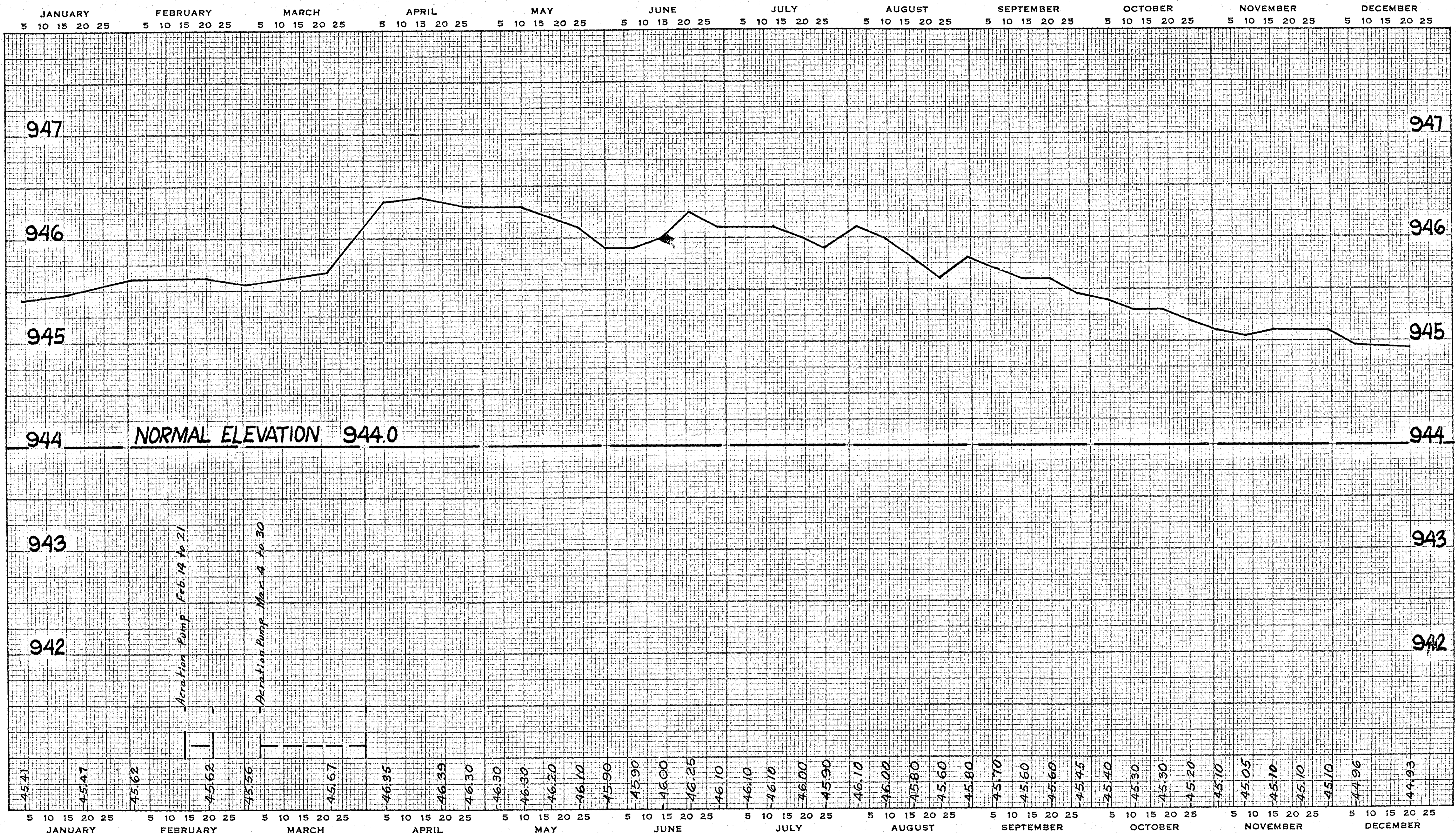
Precipitation This Year 25.44  
 Normal Precipitation 24.78  
 Cum. Excess-Deficiency - 21.39  
 (Since 1924)

Area in Acres at Normal Elevation 588  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 TO 1

Lake **ISLAND** Year **1967**

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



KE 1 YEAR BY DAYS 47 2813  
 X 150 DIVISIONS MADE IN U.S.A.  
 KEUFFEL & ESSER CO.

SEA LEVEL ELEVATION

**AERATION PUMP NO. 18**

Month	K.W. Demand	K.W. Consumed	Total Cost
JAN.			
FEB.		151.45	2.30
MAR.		562.67	9.28
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
<b>TOTAL</b>		<b>714</b>	<b>11.78</b>

**AERATION PUMP NO. 18**

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

**AERATION PUMP NO. 18**

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

**AERATION PUMP**

Pumping Costs This Year	<u>\$ 11.78</u>	Cum. Pumping Cost	<u>11.78</u>	<u>1129.13</u>
Mil. Gals. Pumped This Year		Cum. M. G. Pumped		<u>100.08</u>
Equiv. on Lake in Ft. This Year		Cum. Equiv. on Lake in Ft.		<u>5.22</u>
K. W. H. Consumed This Year	<u>715</u>	Cum. K. W. H.	<u>715</u>	
Av. Costs Per K. W. H. This Year	<u>.01615</u>	Cum. Av. Cost Per K. W. H.		
Av. Costs Per M. G. Pumped This Year		Cum. Av. Costs Per M. G. Pumped		<u>11.28</u>

Precipitation This Year 24.34

Area in Acres at Normal Elevation 58.8

Lake **ISLAND** Year **1966**

Normal Precipitation 24.78

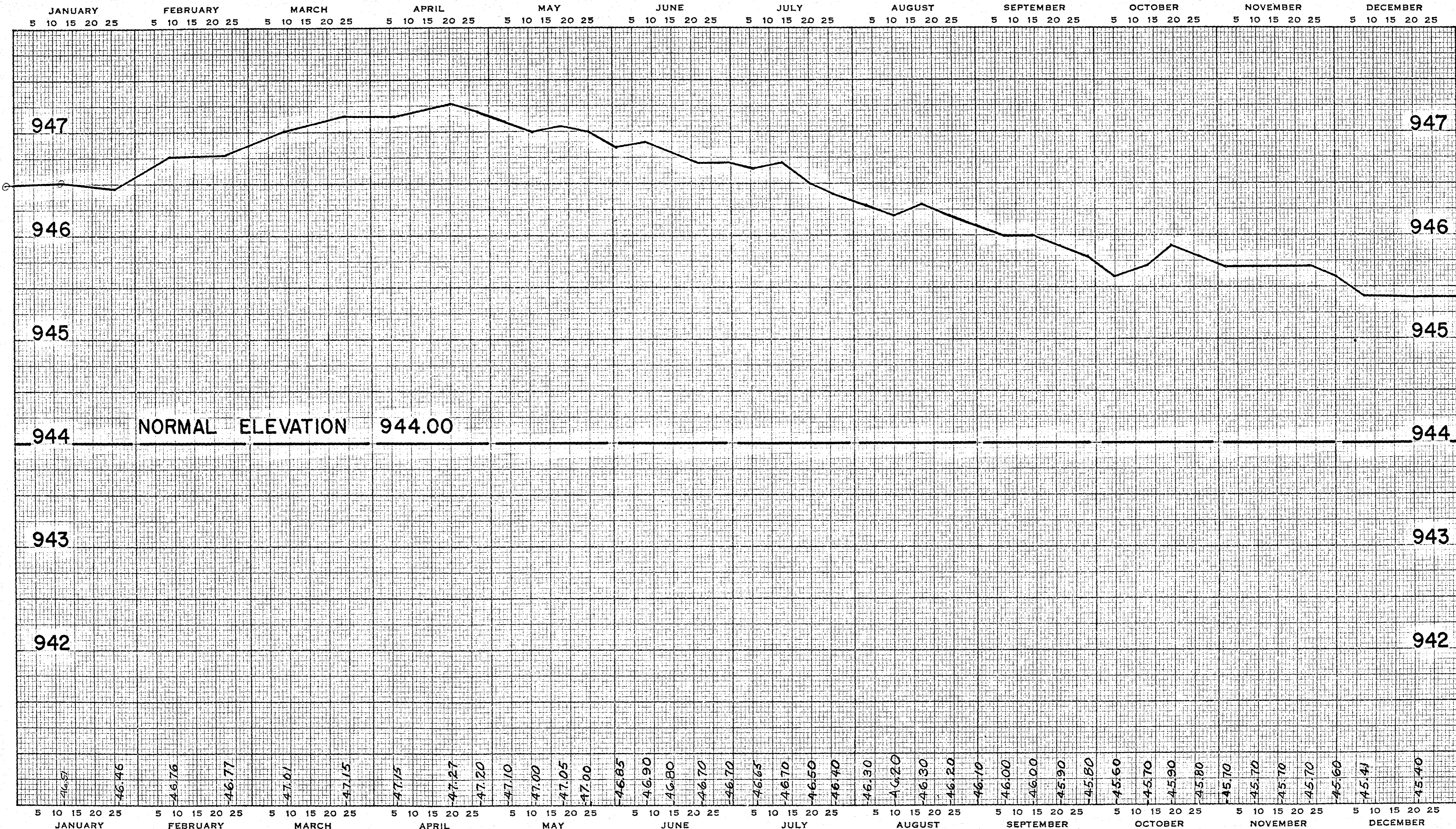
Gallons Equiv. to One Foot on Lake 19,120,200

OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -22.05  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 to 1

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS  
X 150 DIVISIONS  
KEUFFEL & ESSER CO.

SEA LEVEL ELEVATION

PUMP NO.	Month	K.W. Demand	K.W. Consumed	Total Cost
	JAN.			
	FEB.			
	MAR.			
	APR.			
	MAY			
	JUNE			
	JULY			
	AUG.			
	SEPT.			
	OCT.			
	NOV.			
	DEC.			
	TOTAL			

PUMP NO.	Month	K.W. Demand	K.W. Consumed	Total Cost
	JAN.			
	FEB.			
	MAR.			
	APR.			
	MAY			
	JUNE			
	JULY			
	AUG.			
	SEPT.			
	OCT.			
	NOV.			
	DEC.			
	TOTAL			

PUMP NO.	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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 K. W. H. Consumed This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost 1,129.13  
 Cum. M. G. Pumped 100.08  
 Cum. Equiv. on Lake in Ft. 5.22  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped 11.28

Precipitation This Year 39.94

Area in Acres at Normal Elevation 588

Lake **ISLAND** Year **1965**

Normal Precipitation 24.78

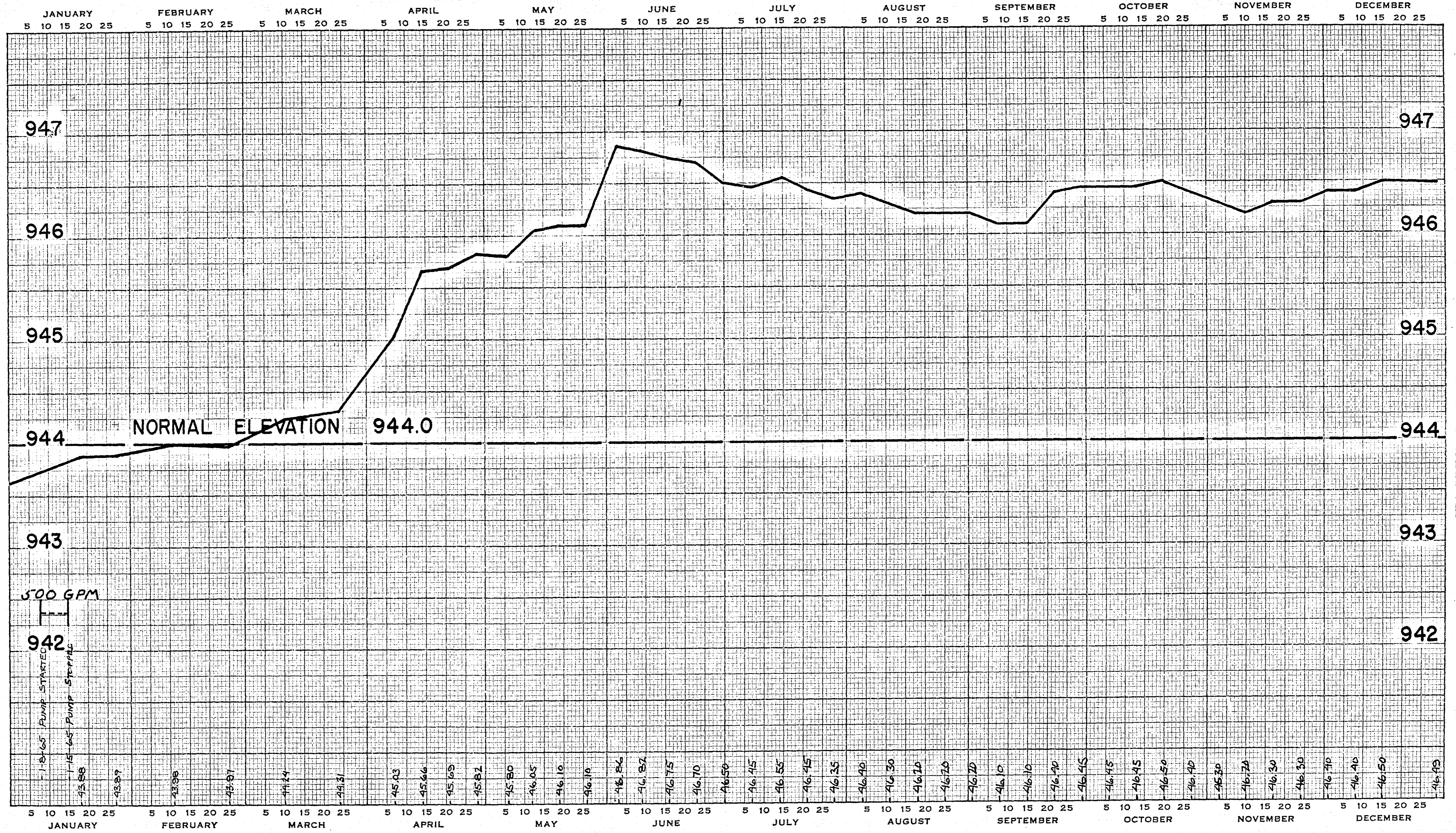
Gallons Equiv. to One Foot on Lake 19,120,200

OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -21.61  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 TO 1

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS 47 2813  
 X 150 DIVISIONS  
 MADE IN U.S.A.  
 KEUFFEL & ESSER CO.

SEA LEVEL ELEVATION

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		3682.00	60.75

Pumping Costs This Year 60.75  
 Mil. Gals. Pumped This Year 5.04  
 Equiv. on Lake in Ft. This Year .26  
 K. W. H. Consumed This Year 3682.00  
 Av. Costs Per K. W. H. This Year 0.0165  
 Av. Costs Per M. G. Pumped This Year 12.05

Cum. Pumping Cost 1,129.13  
 Cum. M. G. Pumped 100.08  
 Cum. Equiv. on Lake in Ft. 5.22  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped 11.28

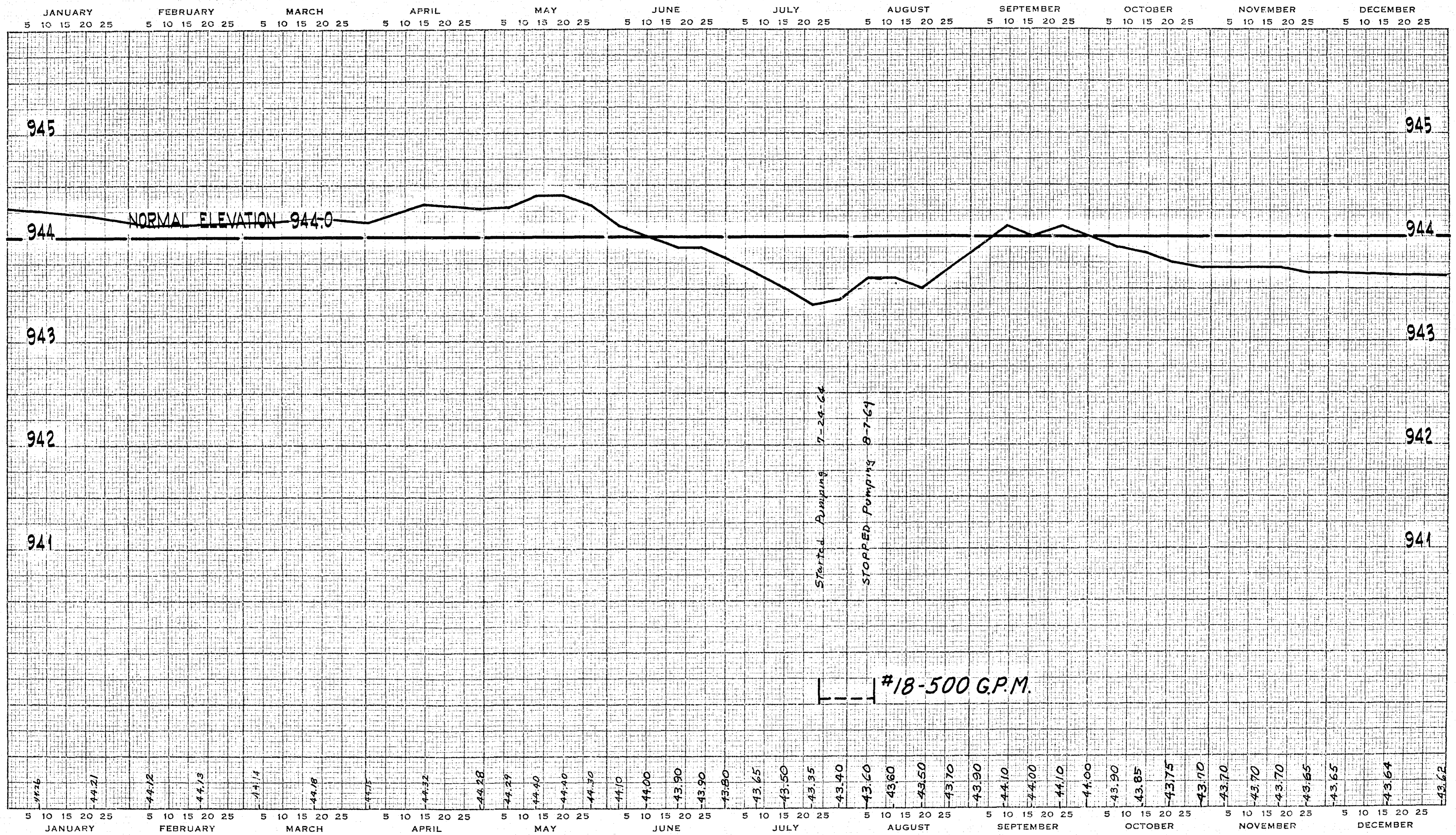
Precipitation This Year 25.97  
 Normal Precipitation 24.78  
 Cum. Excess-Deficiency -36.77  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 TO 1

Lake **ISLAND** Year **1964**

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS X 150 DIVS. 359-141L  
 KEUFFEL & ESSER CO. MADE IN U.S.A.  
 CALENDAR YEAR

SEA LEVEL ELEVATION

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		6990.00	115.33

Pumping Costs This Year 115.33  
 Mil. Gals. Pumped This Year 10.80  
 Equiv. on Lake in Ft. This Year .56  
 K. W. H. Consumed This Year 6990.00  
 Av. Costs Per K. W. H. This Year 0.0165  
 Av. Costs Per M. G. Pumped This Year 10.68

Cum. Pumping Cost 1068.38  
 Cum. M. G. Pumped 95.04  
 Cum. Equiv. on Lake in Ft. 4.96  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped 11.24



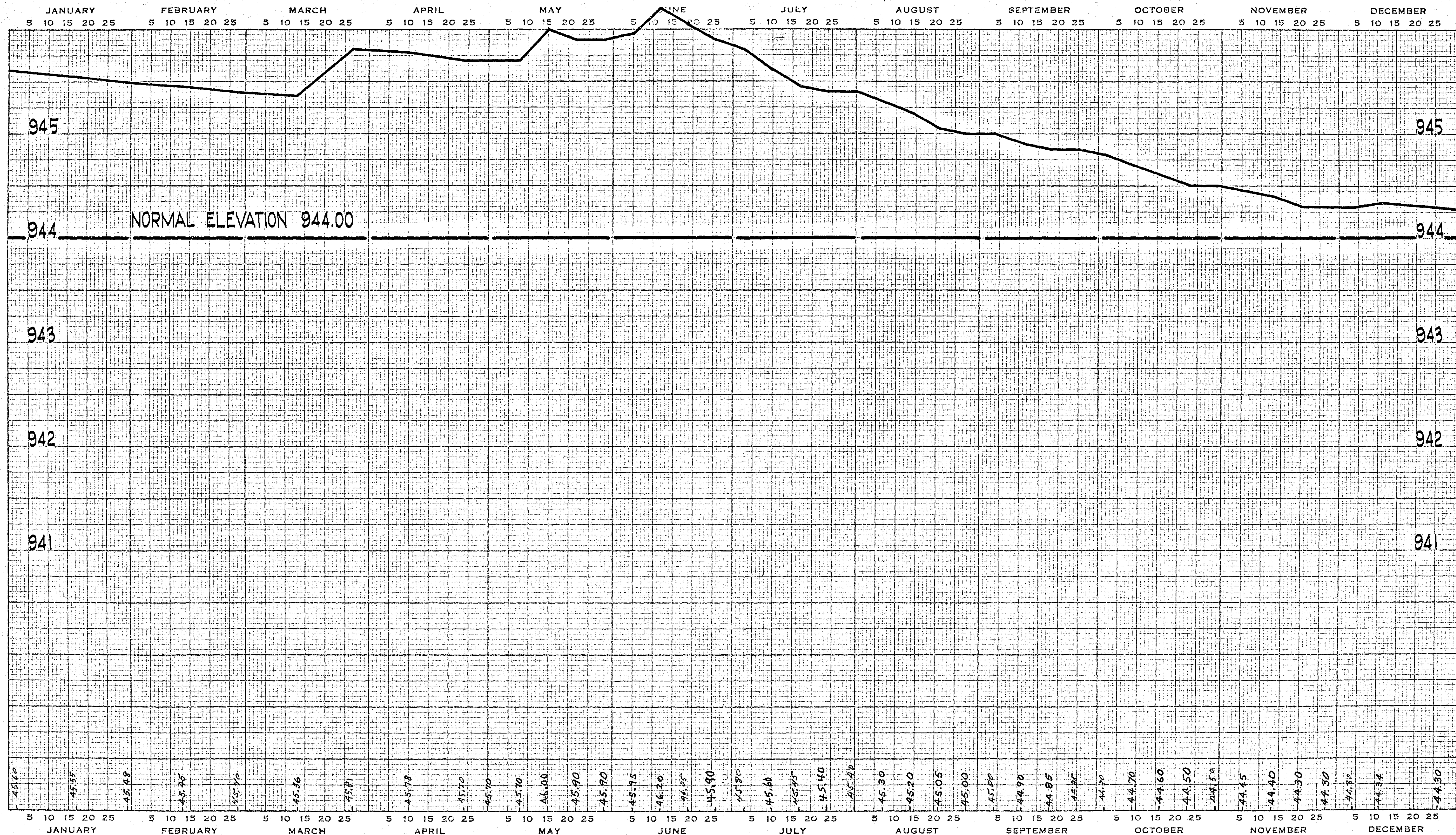
Precipitation This Year 19.57  
 Normal Precipitation 24.78  
 Cum. Excess-Deficiency -37.96  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 TO 1

Lake **ISLAND** Year **1963**

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 K. W. H. Consumed This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost 953.05  
 Cum. M. G. Pumped 84.24  
 Cum. Equiv. on Lake in Ft. 4.40  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped 11.31

1 YEAR BY DAYS X 180 DIVNS. 359-141L  
 KEUFFEL & ESSER CO. MADE IN U.S.A.  
 CALENDAR YEAR

SEA LEVEL ELEVATION

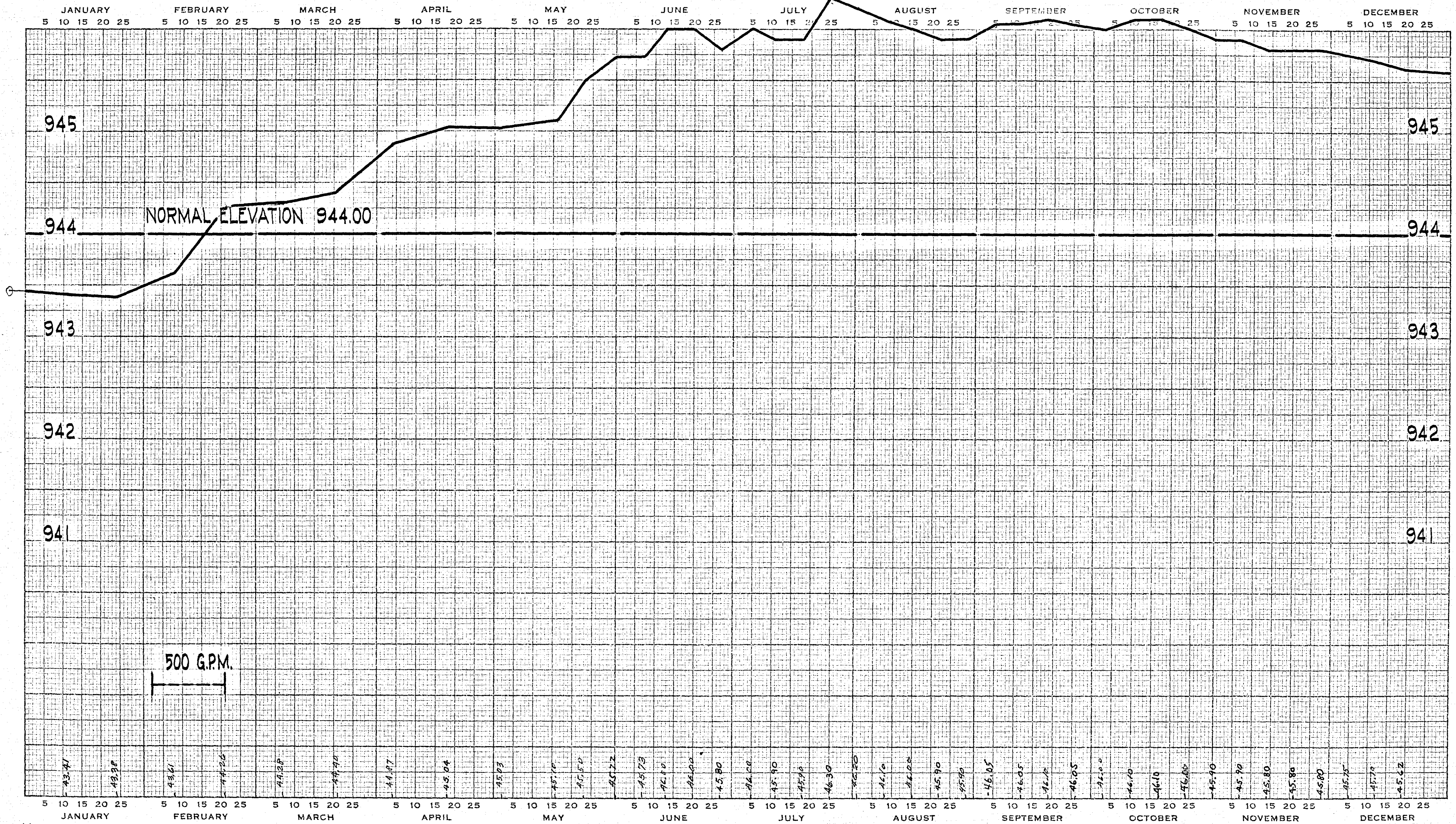
Precipitation This Year 28.83  
 Normal Precipitation 24.78  
 Cum. Excess-Deficiency -32.75  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 TO 1

Lake **ISLAND** Year **1962**

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



1 YEAR BY DAYS X 150 DIVNS. 359-1411L  
 KEUFFEL & ESSER CO. MADE IN U.S.A.  
 CALENDAR YEAR

SEA LEVEL ELEVATION

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		100.48	165.79

Pumping Costs This Year 165.79  
 Mil. Gals. Pumped This Year 14.40  
 Equiv. on Lake in Ft. This Year 0.75  
 K. W. H. Consumed This Year 100.48  
 Av. Costs Per K. W. H. This Year 0.0165  
 Av. Costs Per M. G. Pumped This Year 11.51

Cum. Pumping Cost 953.05  
 Cum. M. G. Pumped 84.24  
 Cum. Equiv. on Lake in Ft. 4.40  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped 11.31

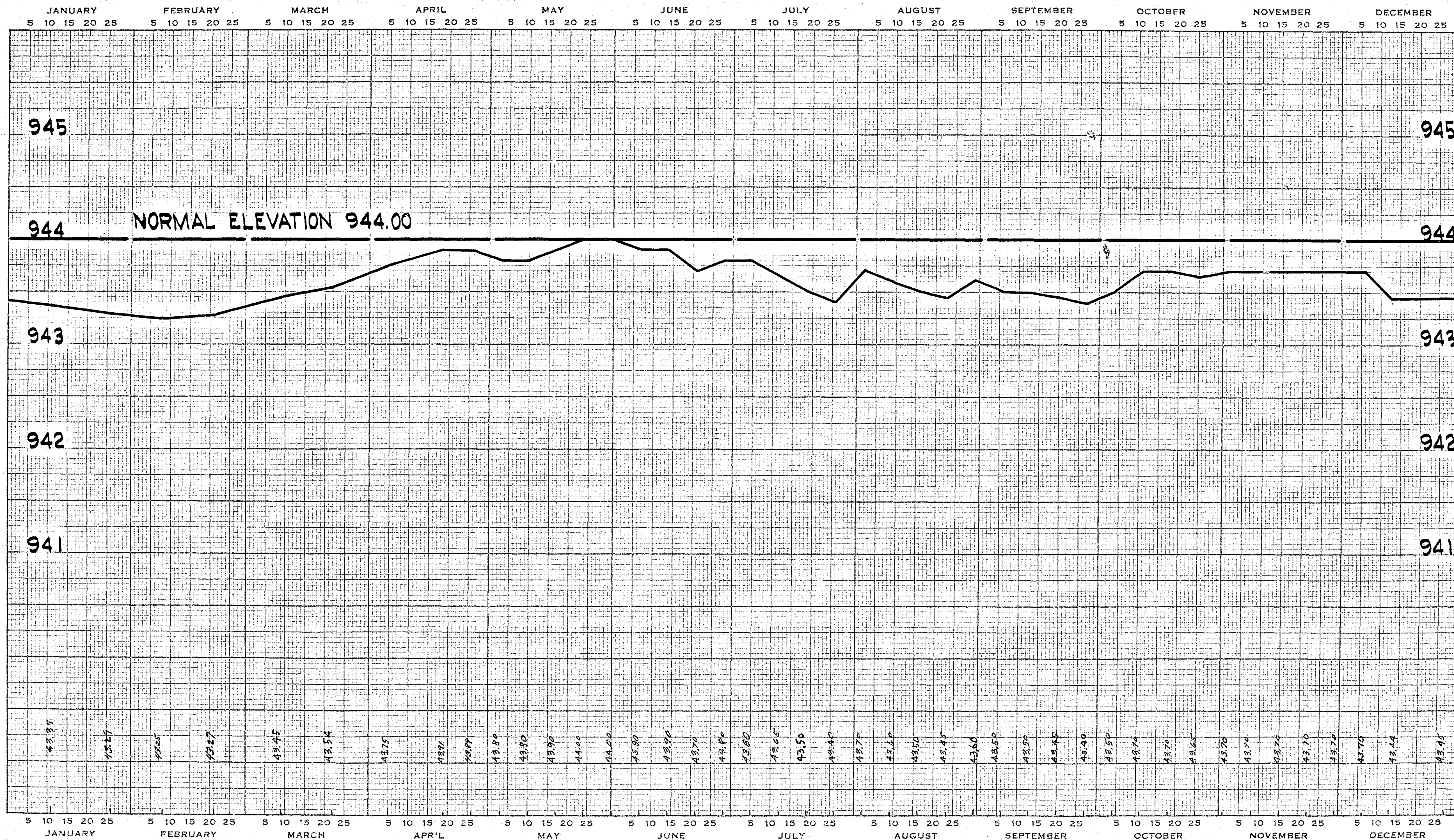
Precipitation This Year 25.74  
 Normal Precipitation 24.71  
 Cum. Excess-Deficiency -36.80  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 TO 1

Lake **ISLAND** Year **1961**

OFFICE OF  
**RAMSEY COUNTY ENGINEER**

Sheet No. \_\_\_\_\_



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

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 \_\_\_\_\_

PUMP NO.

PUMP NO.

PUMP NO.

SEA LEVEL ELEVATION

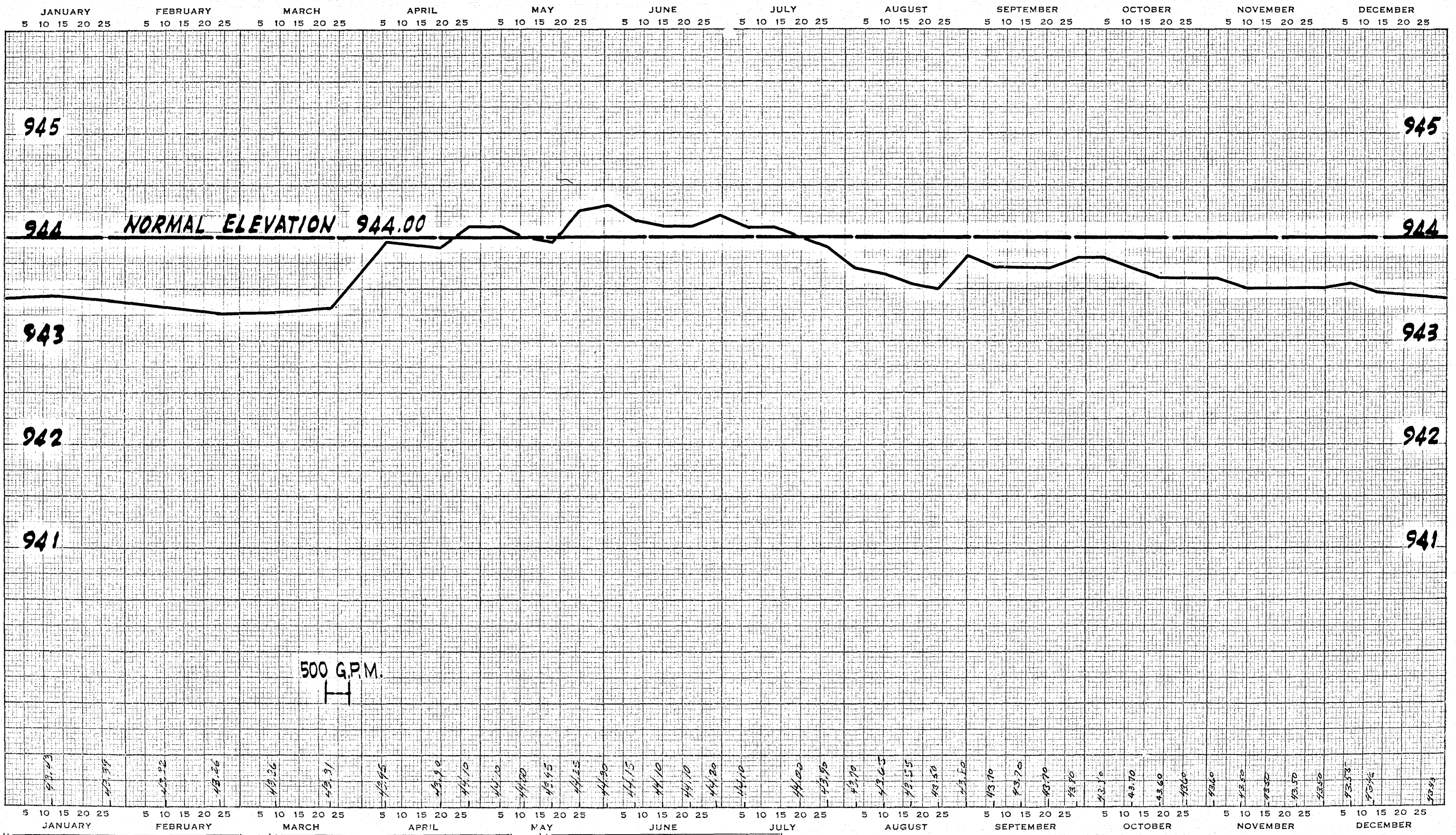
Precipitation This Year 21.46  
 Normal Precipitation 24.75  
 Cum. Excess-Deficiency -37.83  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 to 1

Lake ISLAND Year 1960

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



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.		3298	54.12
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL		3298	54.12

Pumping Costs This Year 54.42 Cum. Pumping Cost 787.26  
 Mil. Gals. Pumped This Year 5.04 Cum. M. G. Pumped 69.84  
 Equiv. on Lake in Ft. This Year 0.26 Cum. Equiv. on Lake in Ft. 3.65  
 K. W. H. Consumed This Year 3298 Cum. K. W. H. \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year 0.0165 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year 10.80 Cum. Av. Costs Per M. G. Pumped 11.27

1 YEAR BY DAYS X 150 DIVNS. 350-141L  
 KEUFFEL & ESSER CO. MADE IN U.S.A.  
 CALENDAR YEAR

SEA LEVEL ELEVATION

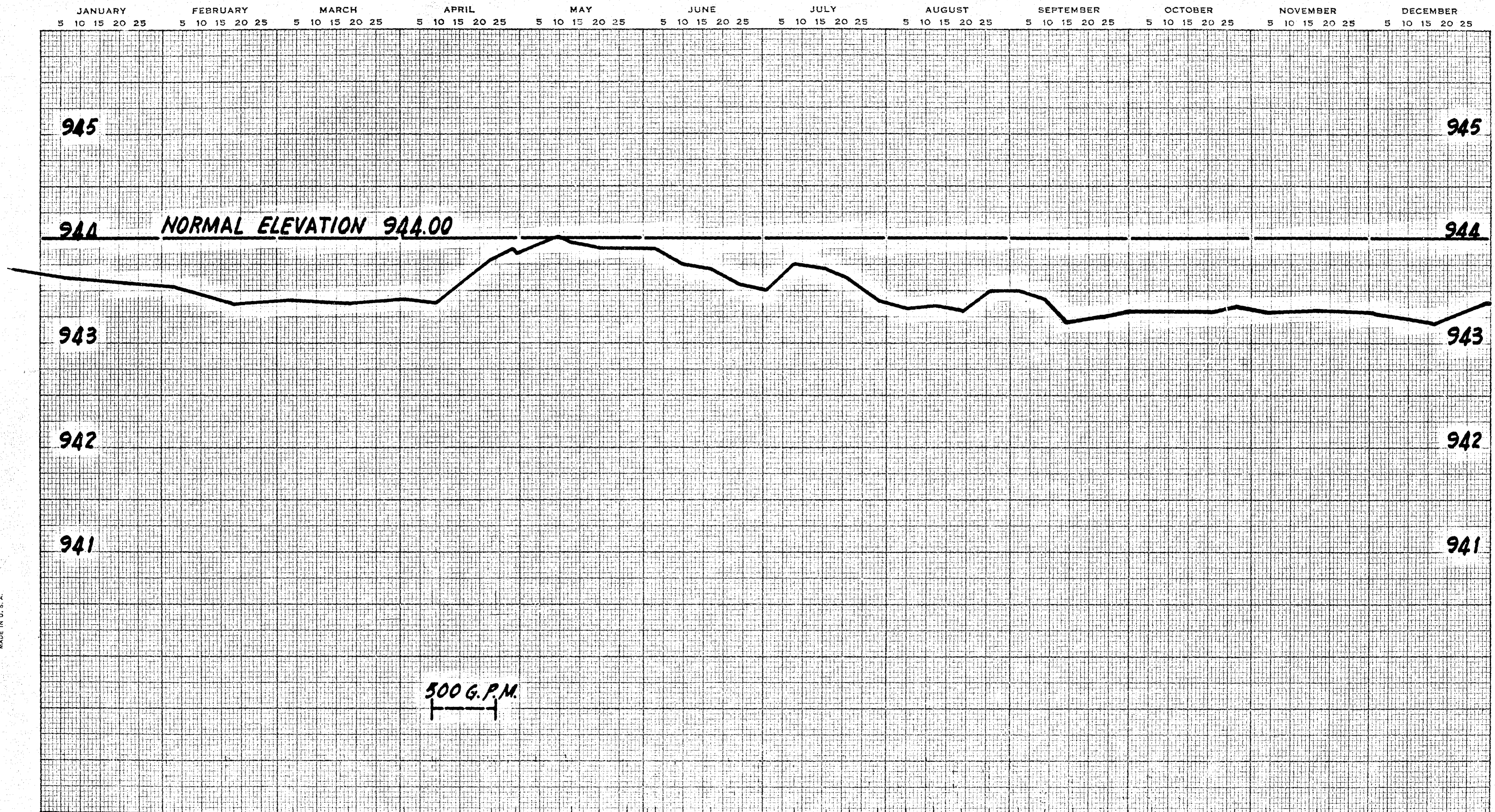
Precipitation This Year 26.88  
 Normal Precipitation 24.31  
 Cum. Excess-Deficiency -34.54  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 To 1

Lake ISLAND Year 1959

OFFICE OF  
 RAMSEY COUNTY SURVEYOR

Sheet No. 4



359-141L KEUFFEL & ESSER CO.  
 One Year by Days, Calendar Year.  
 366 days X 150 (10 per unit) divisions.  
 MADE IN U. S. A.

SEA LEVEL ELEVATION

PUMPING UNIT NO. 17			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. 18			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. 18			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL	8290	136.78	

Pumping Costs This Year 136.78  
 Mil. Gals. Pumped This Year 11.52  
 Equiv. on Lake in Ft. This Year .60  
 K. W. H. Consumed This Year 8290  
 Av. Costs Per K. W. H. This Year 0.0165  
 Av. Costs Per M. G. Pumped This Year 11.87

Cum. Pumping Cost 732.84  
 Cum. M. G. Pumped 64.80  
 Cum. Equiv. on Lake in Ft. 3.39  
 Cum. K. W. H. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped 11.31

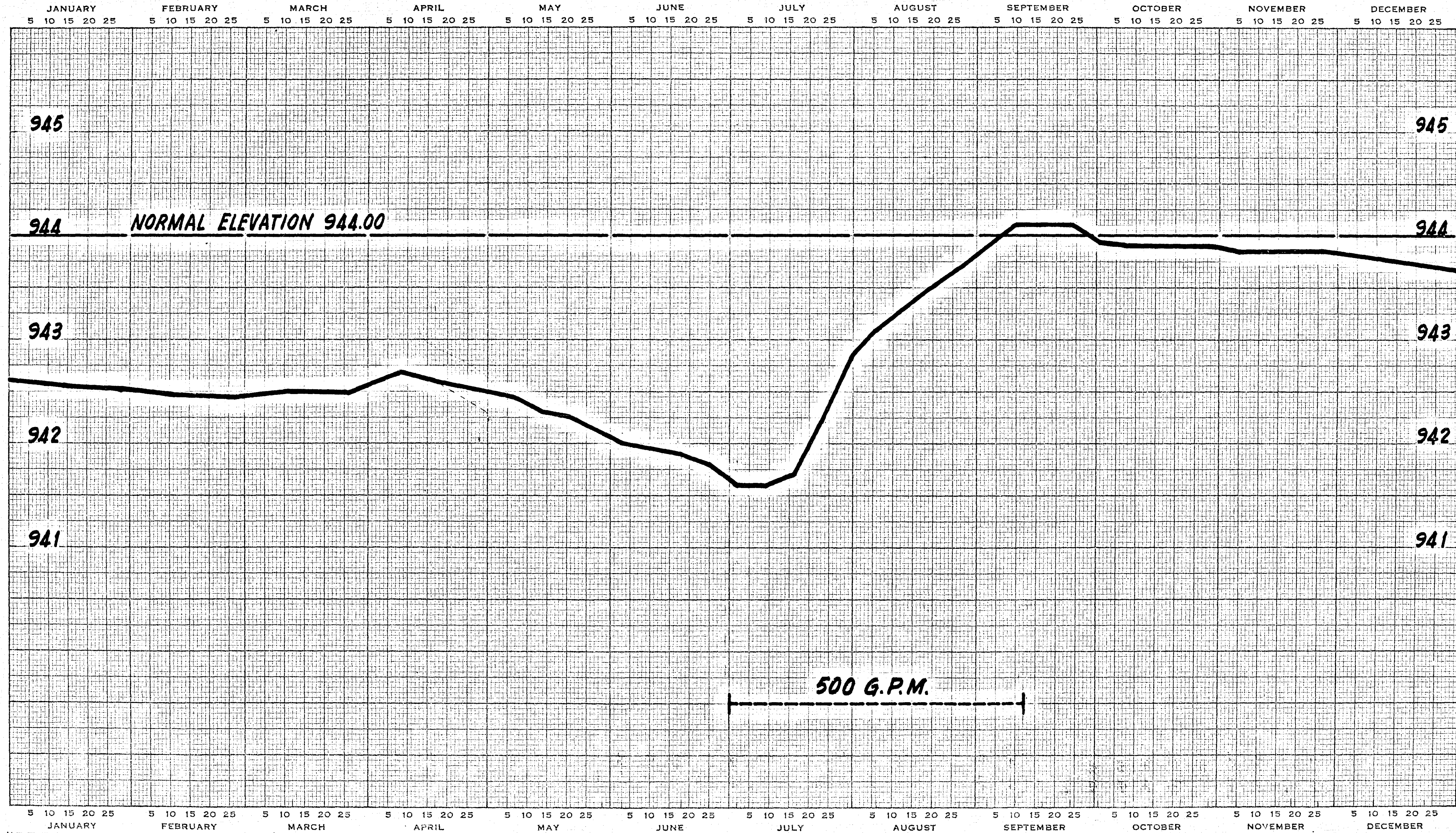
Precipitation This Year 16.20  
 Normal Precipitation 24.71  
 Cum. Excess-Deficiency -36.71  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 To 1

Lake **ISLAND** Year **1958**

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_



KEUFFEL & ESSER CO. 359-141L MADE IN U.S.A. 1 YEAR BY DAYS X 150 DIVNS. CALENDAR YEAR

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		34107	596.06

Pumping Costs This Year	<b>596.06</b>	Cum. Pumping Cost	<b>596.06</b>
Mil. Gals. Pumped This Year	<b>53.28</b>	Cum. M. G. Pumped	<b>53.28</b>
Equiv. on Lake in Ft. This Year	<b>2.79</b>	Cum. Equiv. on Lake in Ft.	<b>2.79</b>
K. W. H. Consumed This Year	<b>34107</b>	Cum. K. W. H.	<b>34107</b>
Av. Costs Per K. W. H. This Year	<b>.0175</b>	Cum. Av. Cost Per K. W. H.	<b>.0175</b>
Av. Costs Per M. G. Pumped This Year	<b>11.19</b>	Cum. Av. Costs Per M. G. Pumped	<b>11.19</b>

Precipitation This Year 27.85

Area in Acres at Normal Elevation 58.8

Lake **ISLAND** Year 1957

Normal Precipitation 24.71

Gallons Equiv. to One Foot on Lake 19,120,200

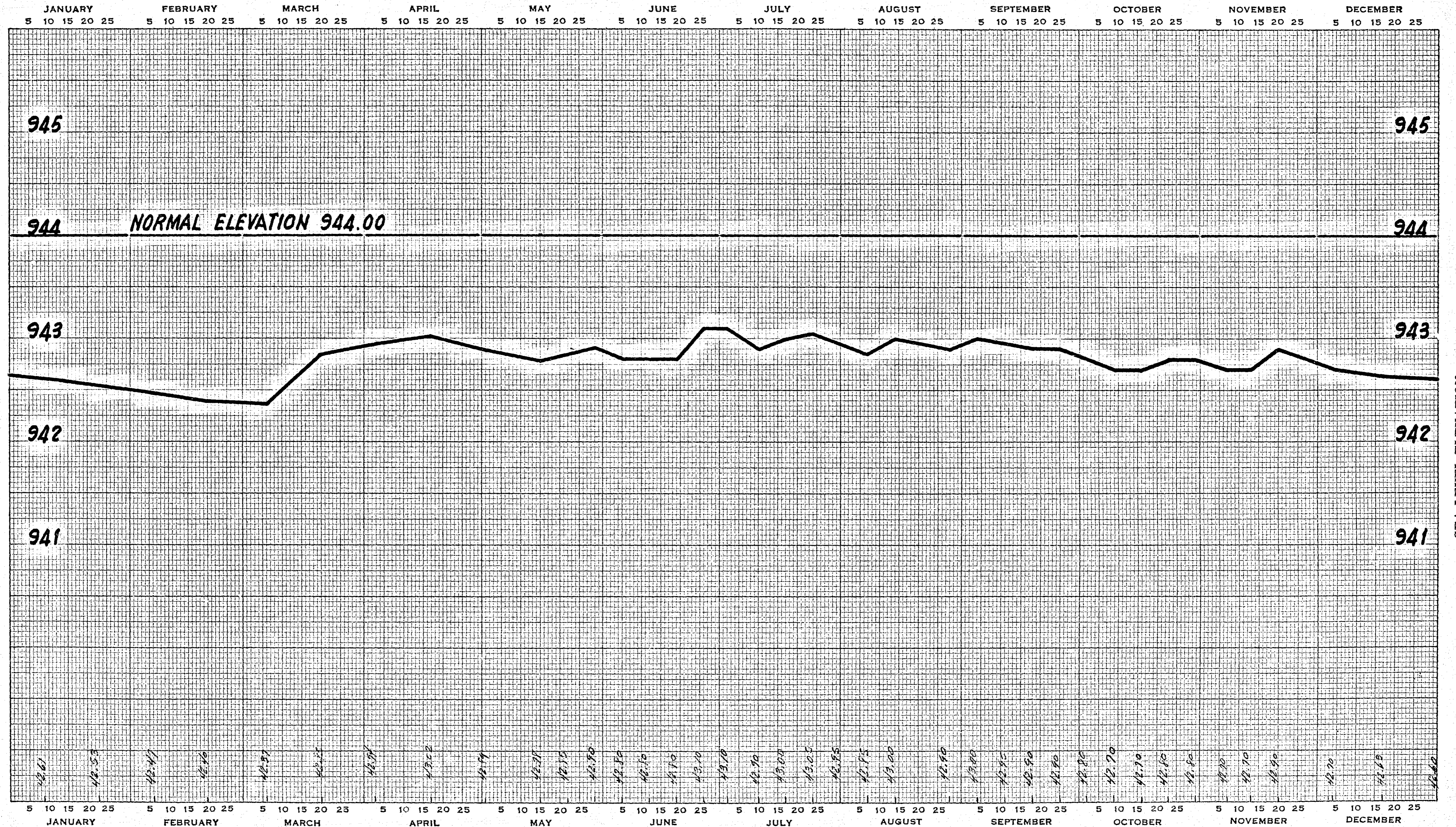
OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -28.20  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 To 1

Sheet No. \_\_\_\_\_

DAILY RECORD SHEET



KEUFFEL & ESSER CO., N. Y. NO. 369-1411  
One Year by Days, Calendar Year.  
Divided 10 per unit vertically.

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. _____			
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 \_\_\_\_\_

Mil. Gals. Pumped This Year \_\_\_\_\_

Equiv. on Lake in Ft. This Year \_\_\_\_\_

Av. Costs Per K. W. H. This Year \_\_\_\_\_

Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_

Cum. M. G. Pumped \_\_\_\_\_

Cum. Equiv. on Lake in Ft. \_\_\_\_\_

Cum. Av. Cost Per K. W. H. \_\_\_\_\_

Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_

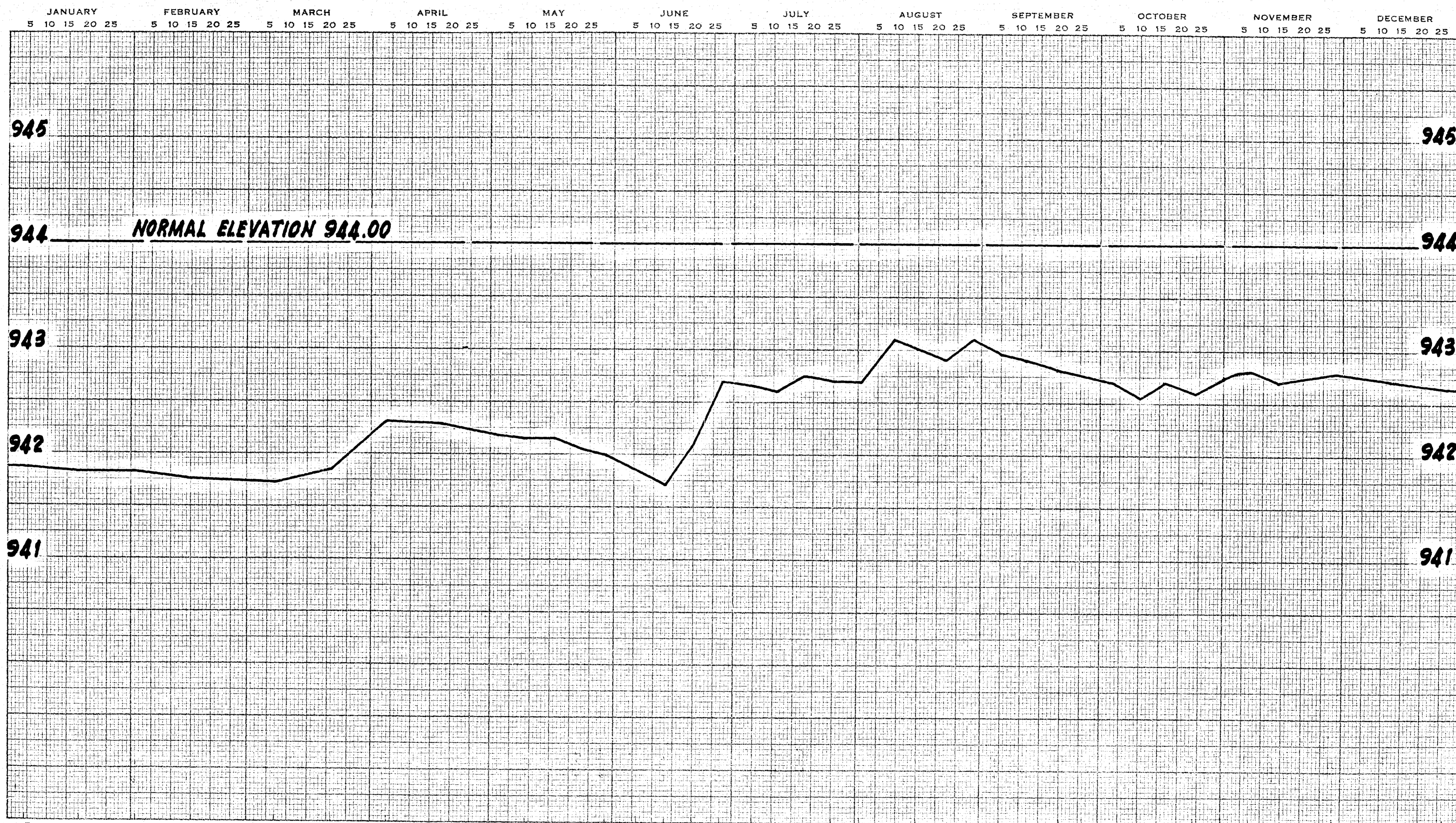
Precipitation This Year 26.75  
 Normal Precipitation 24.71  
 Cum. Excess-Deficiency -31.34  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,200  
 Ratio: Watershed to Lake Area 2.63 To 1

Lake **ISLAND** Year **1956**

OFFICE OF  
 RAMSEY COUNTY SURVEYOR

Sheet No. \_\_\_\_\_



359-141L KEUFFEL & ESSER CO.  
 One Year by Days, Calendar Year,  
 266 days X 150 (10 per unit) divisions.  
 MADE IN U.S.A.

SEA LEVEL ELEVATION

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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 \_\_\_\_\_



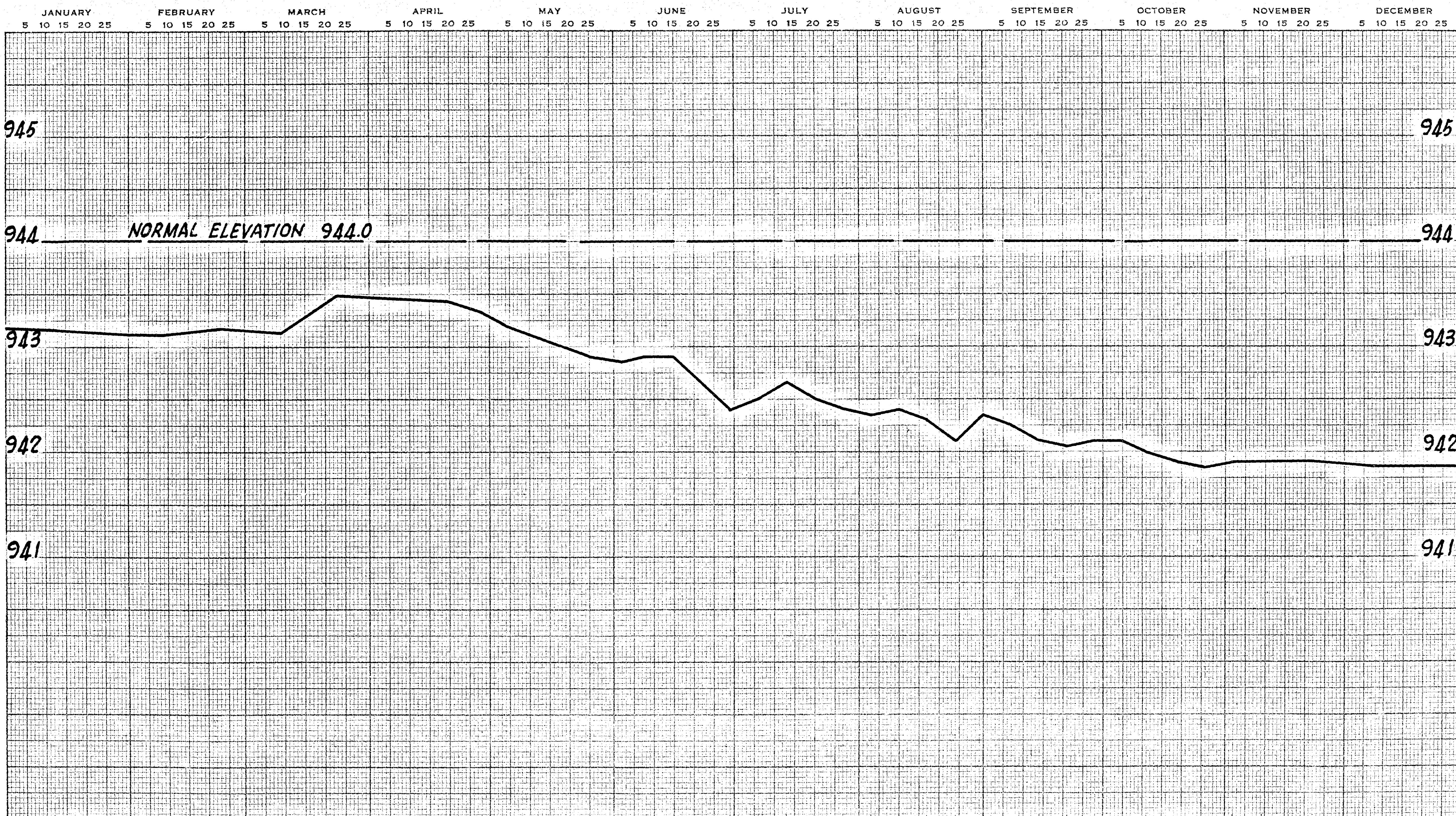
Precipitation This Year 21.11  
 Normal Precipitation 24.71  
 Cum. Excess-Deficiency -33.38  
 (Since 1924)

Area in Acres at Normal Elevation 58.8  
 Gallons Equiv. to One Foot on Lake 19,120,000  
 Ratio: Watershed to Lake Area 2.63 To 1

Lake ISLAND Year 1955

OFFICE OF  
 RAMSEY COUNTY SURVEYOR

Sheet No. \_\_\_\_\_



SEA LEVEL ELEVATION

359-1411 KEUFFEL & ESSER CO.  
 One Year by Days, Calendar Year.  
 866 days X 160 (10 per unit) divisions.  
 MADE IN U.S.A.

PUMPING UNIT NO. _____				PUMPING UNIT NO. _____				PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost	Month	K. W. Demand	K. W. Consumed	Total Cost	Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.				JAN.				JAN.			
FEB.				FEB.				FEB.			
MAR.				MAR.				MAR.			
APR.				APR.				APR.			
MAY				MAY				MAY			
JUNE				JUNE				JUNE			
JULY				JULY				JULY			
AUG.				AUG.				AUG.			
SEPT.				SEPT.				SEPT.			
OCT.				OCT.				OCT.			
NOV.				NOV.				NOV.			
DEC.				DEC.				DEC.			
TOTAL				TOTAL				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 \_\_\_\_\_

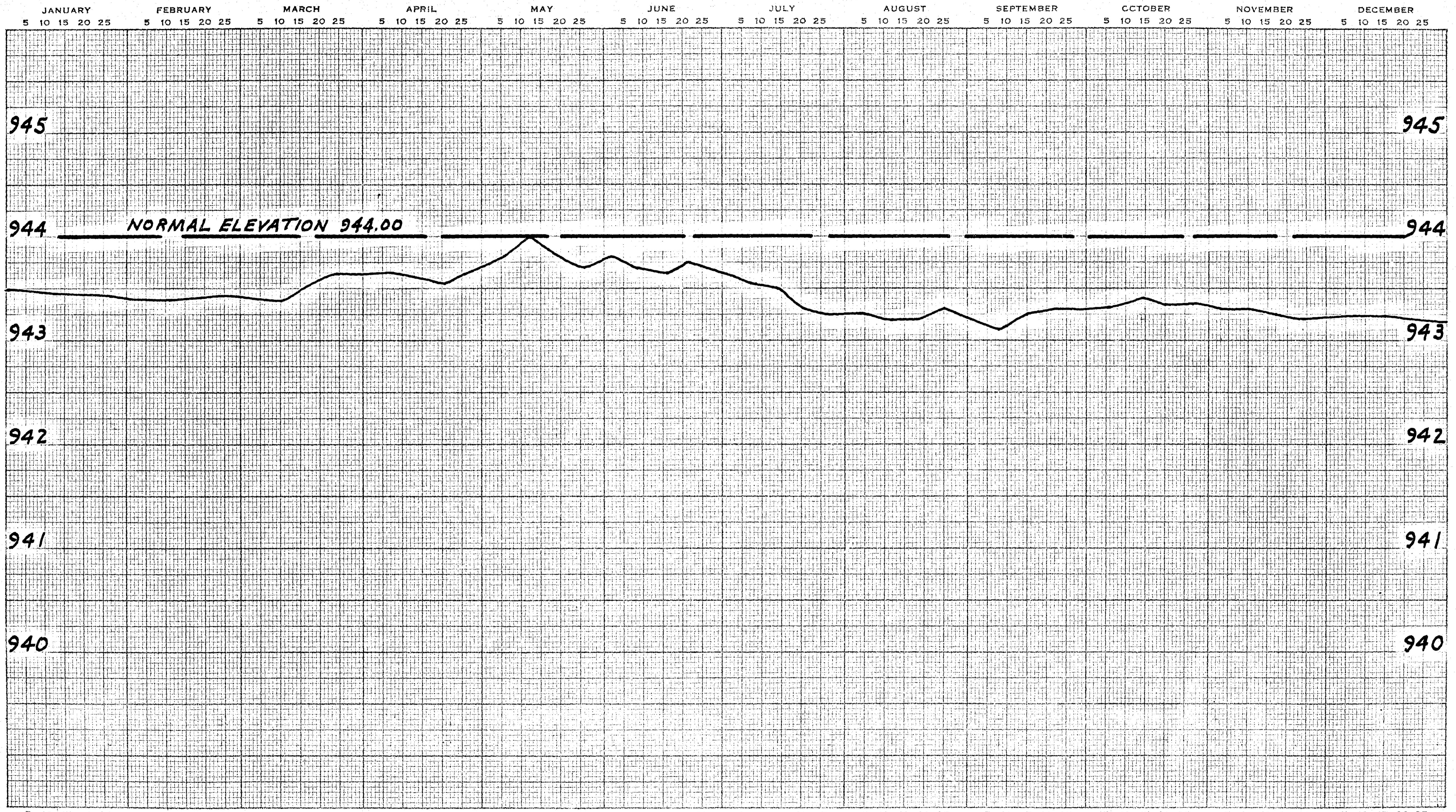
Precipitation This Year 23.68  
 Normal Precipitation 24.71  
 Cum. Excess-Deficiency 29.78  
 (Since 1924)

Area in Acres at Normal Elevation 58.5  
 Gallons Equiv. to One Foot on Lake 19,120,000  
 Ratio: Watershed to Lake Area 2.63 To 1

Lake ISLAND Year 1954

OFFICE OF  
 RAMSEY COUNTY SURVEYOR

Sheet No. \_\_\_\_\_



389-141L KEUFFEL & ESSER CO.  
 One Year by Days, Calendar Year.  
 365 days X 160 (10 per unit) divisions.  
 MADE IN U.S.A.

SEA LEVEL ELEVATION

BUMPING UNIT NO. \_\_\_\_\_

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

BUMPING UNIT NO. \_\_\_\_\_

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

BUMPING UNIT NO. \_\_\_\_\_

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 \_\_\_\_\_

Precipitation This Year 27.91

Area in Acres at Normal Elevation 58.8

Lake ISLAND Year 1953

Normal Precipitation 24.71

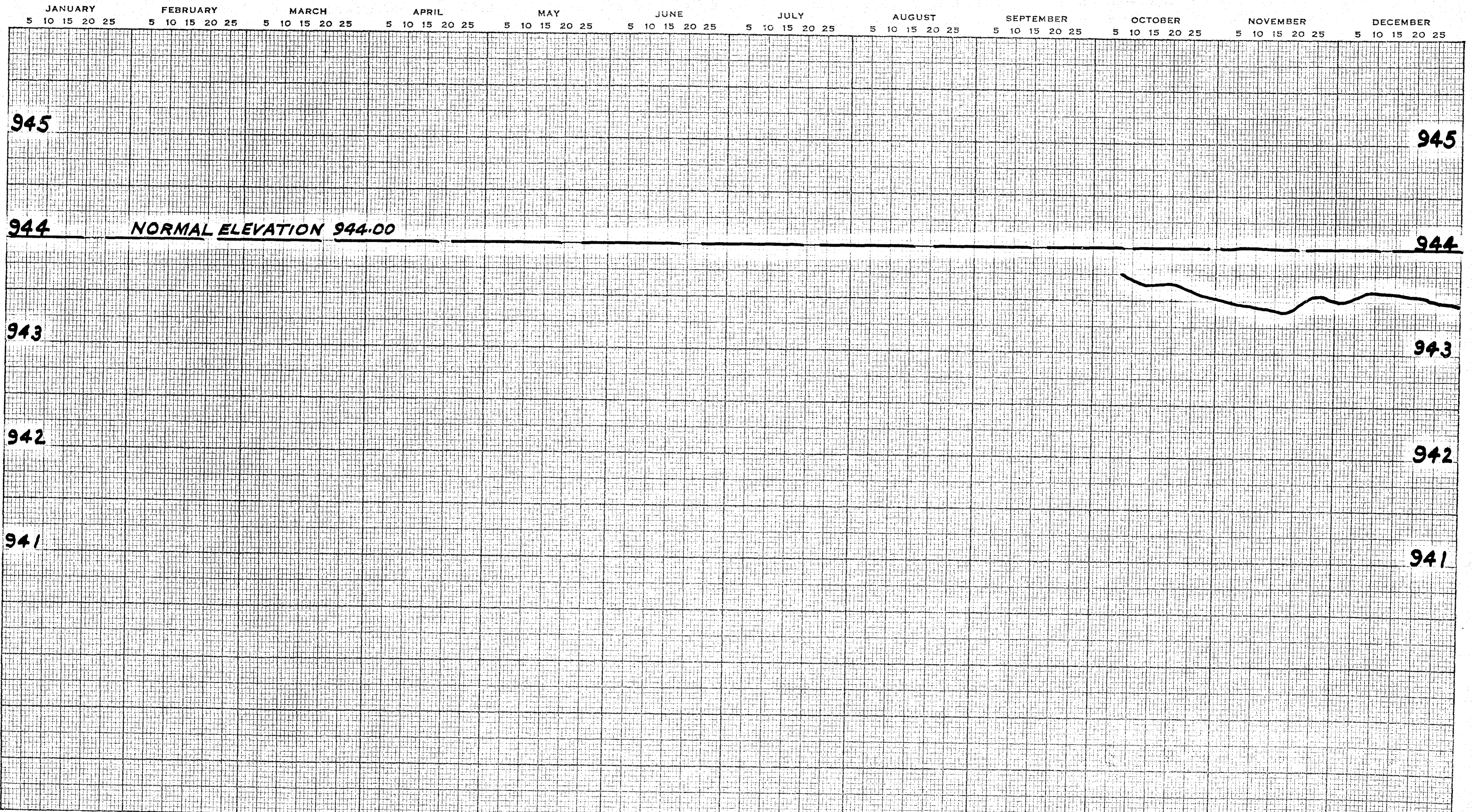
Gallons Equiv. to One Foot on Lake 19,120,000

OFFICE OF  
RAMSEY COUNTY SURVEYOR

Cum. Excess-Deficiency - 28.75  
(Since 1924)

Ratio: Watershed to Lake Area 2.63 To 1

Sheet No. \_\_\_\_\_



359-141L KEUFFEL & ESSER CO.  
One Year by Days, Calendar Year.  
366 days X 150 (10 per unit) divisions.  
MADE IN U.S.A.

SEA LEVEL ELEVATION

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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 \_\_\_\_\_

Precipitation This Year \_\_\_\_\_

Area in Acres at Normal Elevation \_\_\_\_\_

Lake ISLAND LAKE Year \_\_\_\_\_

Normal Precipitation \_\_\_\_\_

Gallons Equiv. to One Foot on Lake \_\_\_\_\_

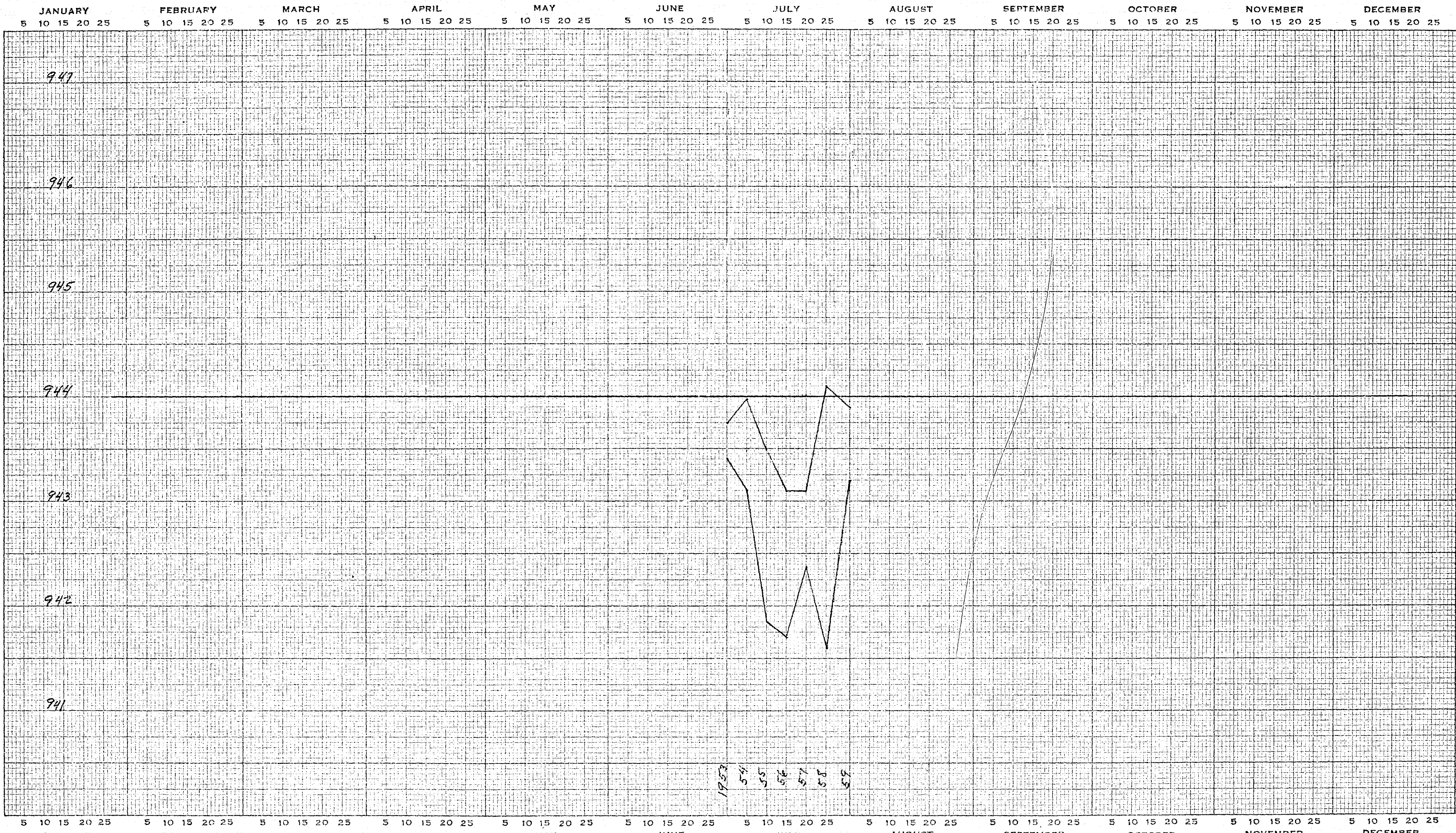
OFFICE OF  
**RAMSEY COUNTY ENGINEER**

Cum. Excess-Deficiency \_\_\_\_\_  
(Since 1924)

Ratio: Watershed to Lake Area \_\_\_\_\_

Sheet No. \_\_\_\_\_

DAILY RECORD SHEET



1953  
5.4  
5.5  
5.6  
5.7  
5.8  
5.9

KEUFFEL & ESSER CO., N. Y. NO. 35B-141L  
One Year by Days, Calendar Year.  
Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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. \_\_\_\_\_  
 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 \_\_\_\_\_

Precipitation This Year 23.31

Area in Acres at Normal Elevation 58.5

Lake ISLAND Year 1932

Normal Precipitation 27.11

Gallons Equiv. to One Foot on Lake 19,120,000

OFFICE OF 1933  
RAMSEY COUNTY ENGINEER 1934

Cum. Excess-Deficiency -46.93  
(Since 1924)

Ratio: Watershed to Lake Area 1 to .38

DAILY RECORD SHEET

Sheet No. \_\_\_\_\_

JANUARY					FEBRUARY					MARCH					APRIL					MAY					JUNE					JULY					AUGUST					SEPTEMBER					OCTOBER					NOVEMBER					DECEMBER																																												
5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25	5	10	15	20	25																									
945																																																		945																																																	
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940																																																		940																																																	
939																																																		939																																																	
938																																																		938																																																	

NORMAL ELEV.

LAKE BOTTOM DRY

FARMED IN 1934

Lake Full Again In 1942-3  
No Lake Level Graphs Continued  
As Lake Has No Public Use

KEUFFEL & ESSER CO., N. Y. NO. 369-1411  
One Year by Days, Calendar Year.  
Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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. \_\_\_\_\_  
 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 \_\_\_\_\_

Precipitation This Year 20.40

Area in Acres at Normal Elevation 58.5

Lake ISLAND Year 1931

Normal Precipitation 27.15

Gallons Equiv. to One Foot on Lake 19,120,000

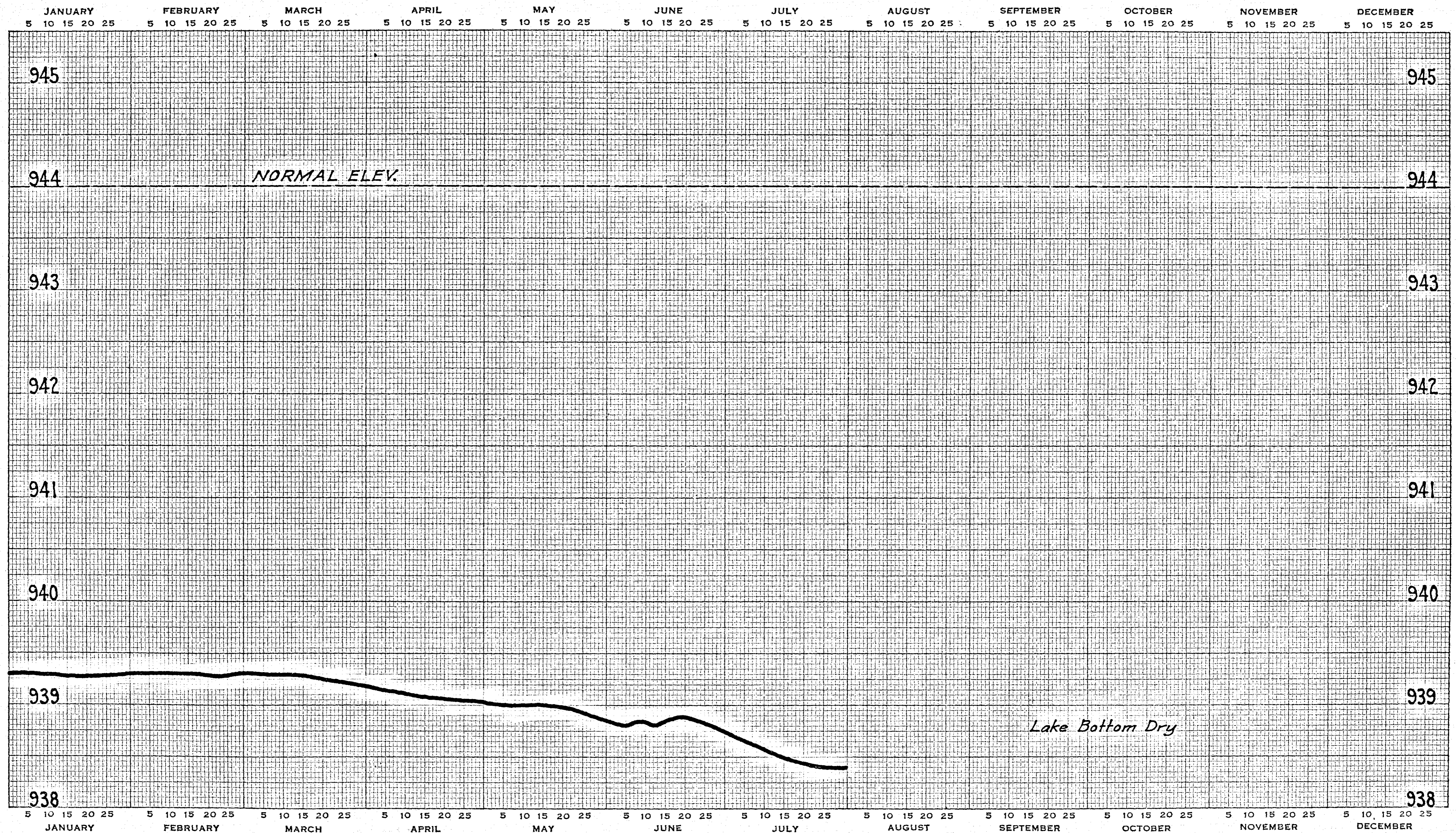
OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -43.13  
(Since 1924)

Ratio: Watershed to Lake Area 1 to .38

DAILY RECORD SHEET

Sheet No. \_\_\_\_\_



KEUFFEL & ESSER CO., N. Y. NO. 359-1411  
One Year by Days, Calendar Year.  
Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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. \_\_\_\_\_  
 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 \_\_\_\_\_

Precipitation This Year 19.25  
 Normal Precipitation 27.20  
 Cum. Excess-Deficiency -36.38  
 (Since 1924)

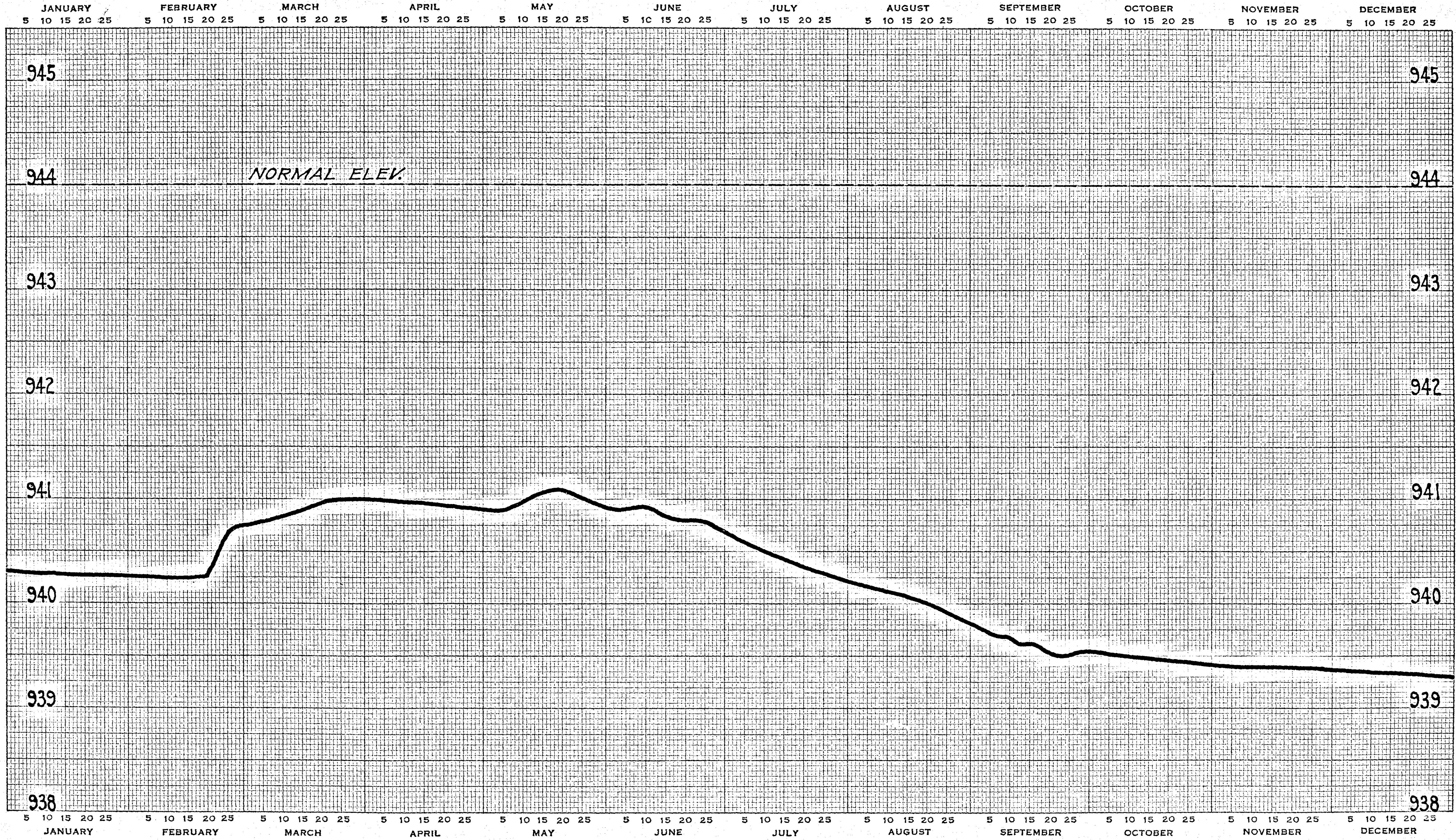
Area in Acres at Normal Elevation 58.5  
 Gallons Equiv. to One Foot on Lake 19,120,000  
 Ratio: Watershed to Lake Area 170.38

Lake ISLAND Year 1930

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_

DAILY RECORD SHEET



KEUFFEL & ESSER CO., N. Y. NO. 260-1411  
 One Year by Days, Calendar Year.  
 Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

Precipitation This Year 23.14  
 Normal Precipitation 27.28  
 Cum. Excess-Deficiency -28.43  
 (Since 1924)

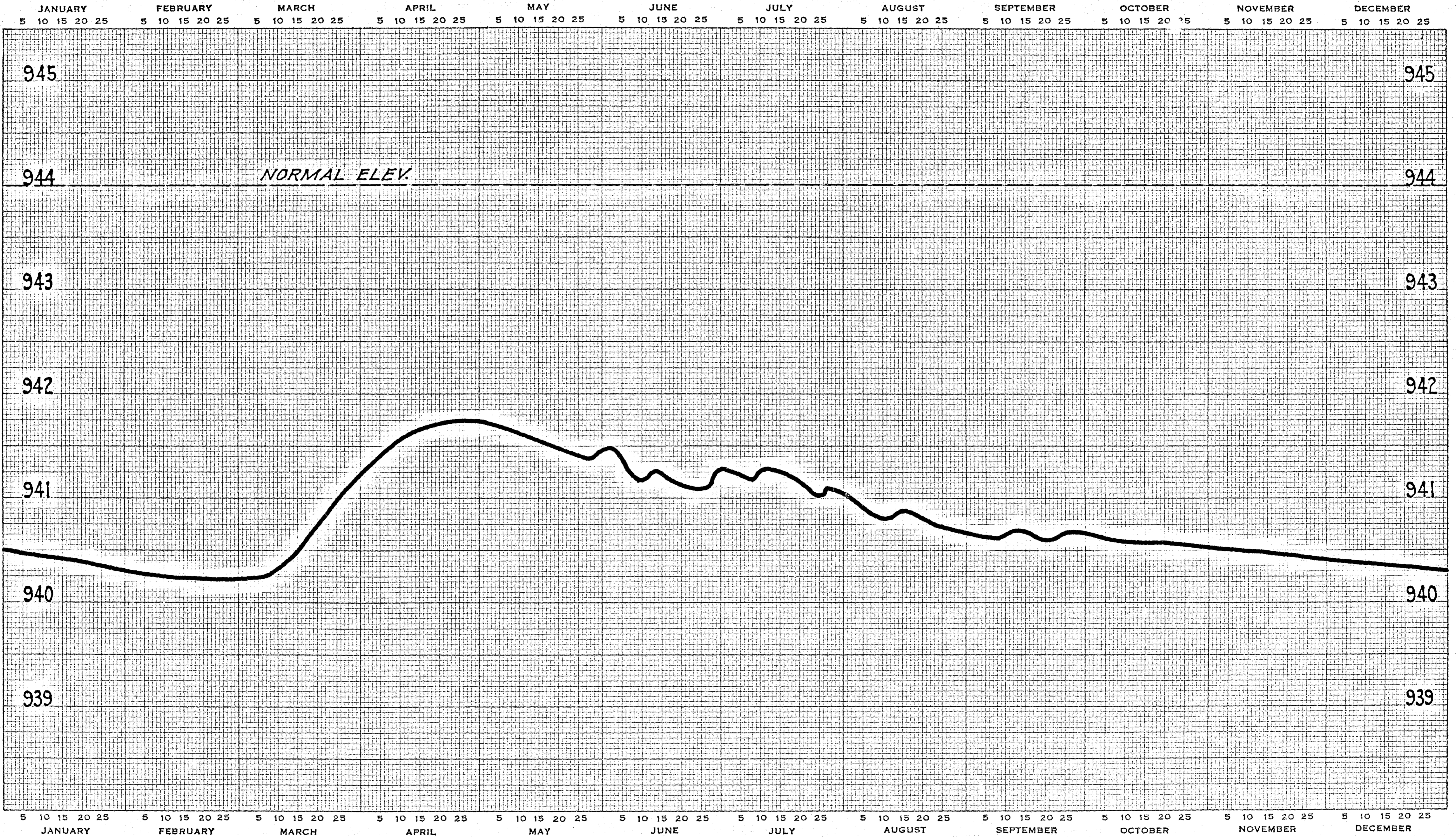
Area in Acres at Normal Elevation 58.5  
 Gallons Equiv. to One Foot on Lake 19,120,000  
 Ratio: Watershed to Lake Area 170.38

Lake ISLAND Year 1929

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_

DAILY RECORD SHEET



KEUFFEL & ESSER CO., N. Y. NO. 359-1411  
 One Year by Days. Calendar Year.  
 Divided 10 per unit vertically.

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. _____			
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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_  
 Cum. M. G. Pumped \_\_\_\_\_  
 Cum. Equiv. on Lake in Ft. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_



Precipitation This Year 22.60

Area in Acres at Normal Elevation 58.5

Lake ISLAND Year 1928

Normal Precipitation 27.31

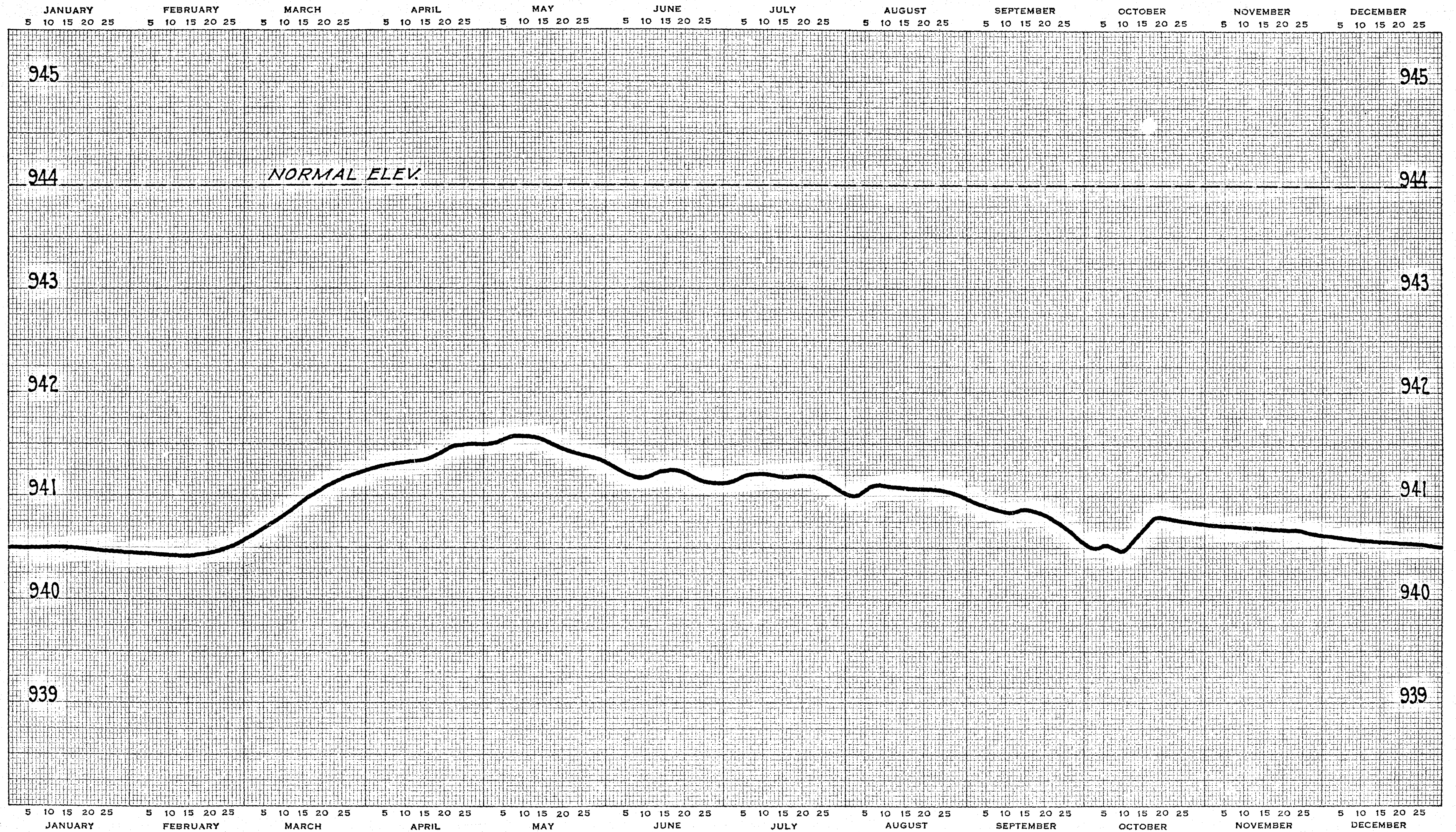
Gallons Equiv. to One Foot on Lake 19,120,000

OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -24.29  
(Since 1924)

Ratio: Watershed to Lake Area 1 to .38  
DAILY RECORD SHEET

Sheet No. \_\_\_\_\_



KEUFFEL & ESSER CO., N. Y. NO. 359-1411  
One Year by Days, Calendar Year.  
Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.	---	---	---
FEB.	---	---	---
MAR.	---	---	---
APR.	---	---	---
MAY	---	---	---
JUNE	---	---	---
JULY	---	---	---
AUG.	---	---	---
SEPT.	---	---	---
OCT.	---	---	---
NOV.	---	---	---
DEC.	---	---	---
TOTAL	---	---	---

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.	---	---	---
FEB.	---	---	---
MAR.	---	---	---
APR.	---	---	---
MAY	---	---	---
JUNE	---	---	---
JULY	---	---	---
AUG.	---	---	---
SEPT.	---	---	---
OCT.	---	---	---
NOV.	---	---	---
DEC.	---	---	---
TOTAL	---	---	---

PUMPING UNIT NO. _____			
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. \_\_\_\_\_  
 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 \_\_\_\_\_

Precipitation This Year 23.27

Area in Acres at Normal Elevation 58.5

Lake ISLAND Year 1927

Normal Precipitation 27.34

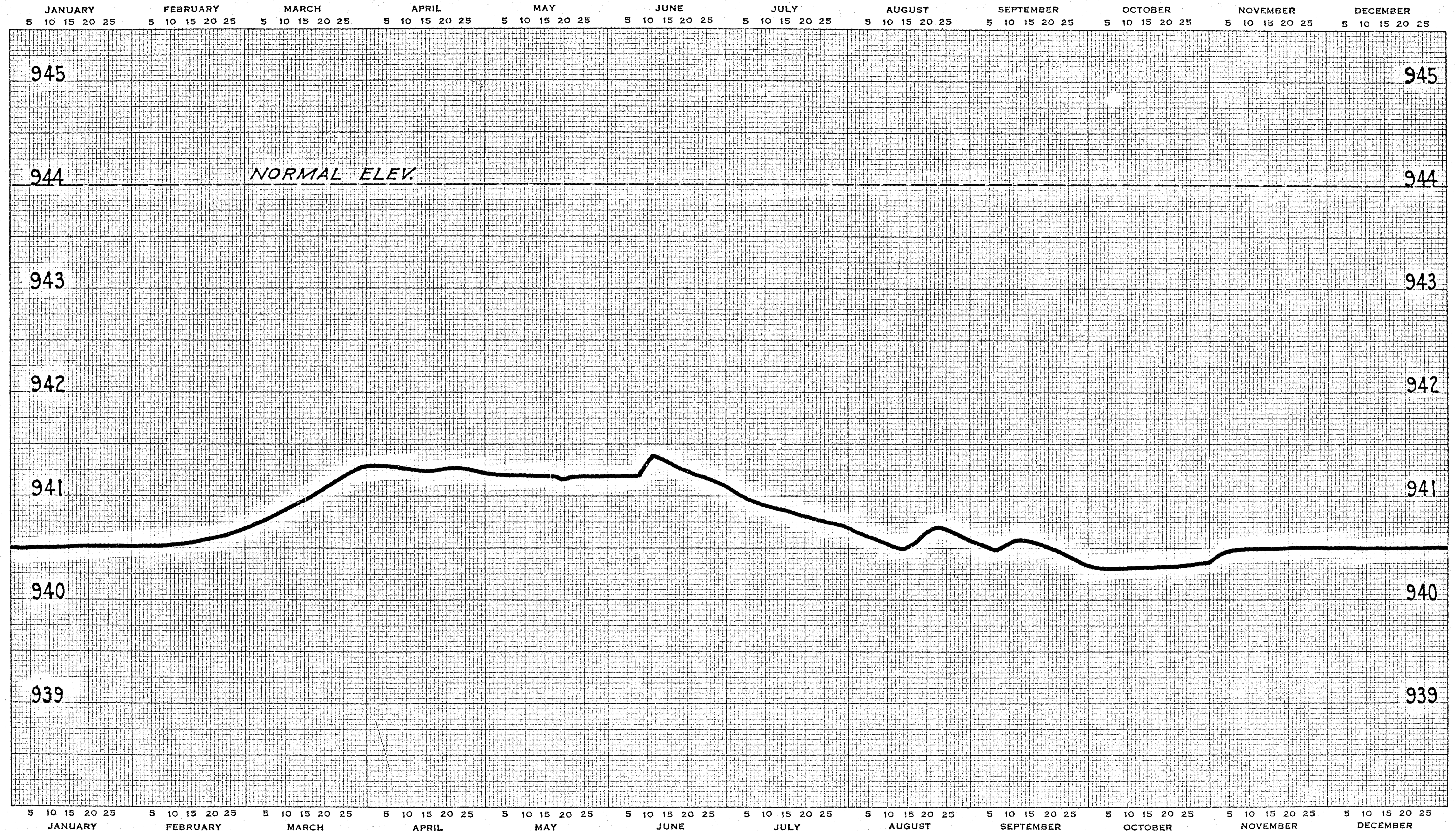
Gallons Equiv. to One Foot on Lake 19,120,000

OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -19.58  
(Since 1924)

Ratio: Watershed to Lake Area 1 to .38  
DAILY RECORD SHEET

Sheet No. \_\_\_\_\_



KEUFFEL & ESSER CO., N. Y. NO. 389-1411  
One Year by Days. Calendar Year.  
Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.			
FEB.			
MAR.			
APR.			
MAY			
JUNE			
JULY			
AUG.			
SEPT.			
OCT.			
NOV.			
DEC.			
TOTAL			

PUMPING UNIT NO. _____			
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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_  
 Cum. M. G. Pumped \_\_\_\_\_  
 Cum. Equiv. on Lake in Ft. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_

Precipitation This Year 22.54

Area in Acres at Normal Elevation 58.5

Lake ISLAND Year 1926

Normal Precipitation 27.35

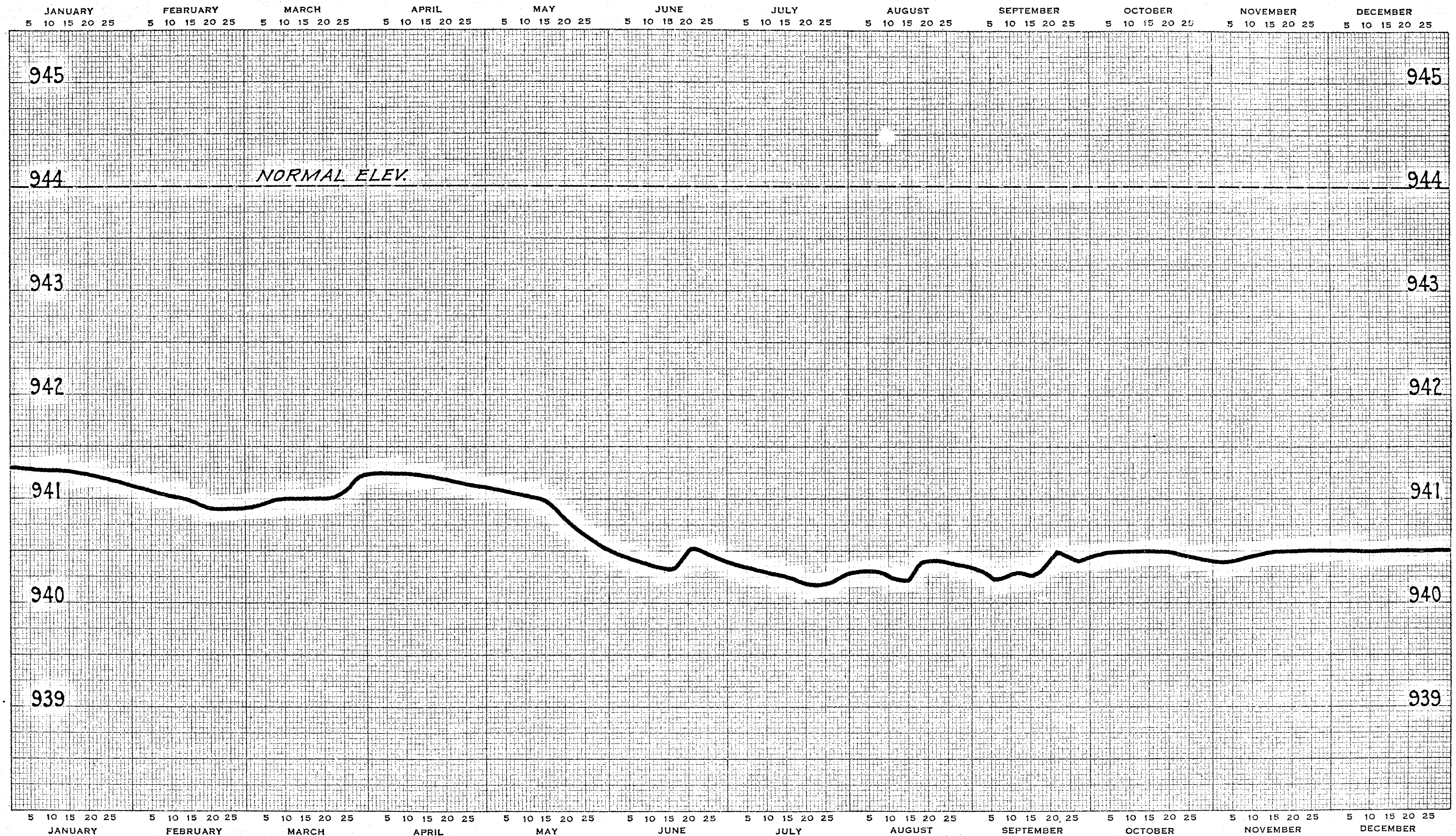
Gallons Equiv. to One Foot on Lake 19,120,000

OFFICE OF  
RAMSEY COUNTY ENGINEER

Cum. Excess-Deficiency -15.51  
(Since 1924)

Ratio: Watershed to Lake Area 1 TO .38  
DAILY RECORD SHEET

Sheet No. \_\_\_\_\_



KEUFFEL & ESSER CO., N. Y. NO. 359-1411  
One Year by Days. Calendar Year.  
Divided 10 per unit vertically.

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.	---	---	---
FEB.	---	---	---
MAR.	---	---	---
APR.	---	---	---
MAY	---	---	---
JUNE	---	---	---
JULY	---	---	---
AUG.	---	---	---
SEPT.	---	---	---
OCT.	---	---	---
NOV.	---	---	---
DEC.	---	---	---
TOTAL	---	---	---

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.	---	---	---
FEB.	---	---	---
MAR.	---	---	---
APR.	---	---	---
MAY	---	---	---
JUNE	---	---	---
JULY	---	---	---
AUG.	---	---	---
SEPT.	---	---	---
OCT.	---	---	---
NOV.	---	---	---
DEC.	---	---	---
TOTAL	---	---	---

PUMPING UNIT NO. _____			
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. \_\_\_\_\_  
 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 \_\_\_\_\_

Precipitation This Year 19.21  
 Normal Precipitation 27.35  
 Cum. Excess-Deficiency -10.70  
 (Since 1924)

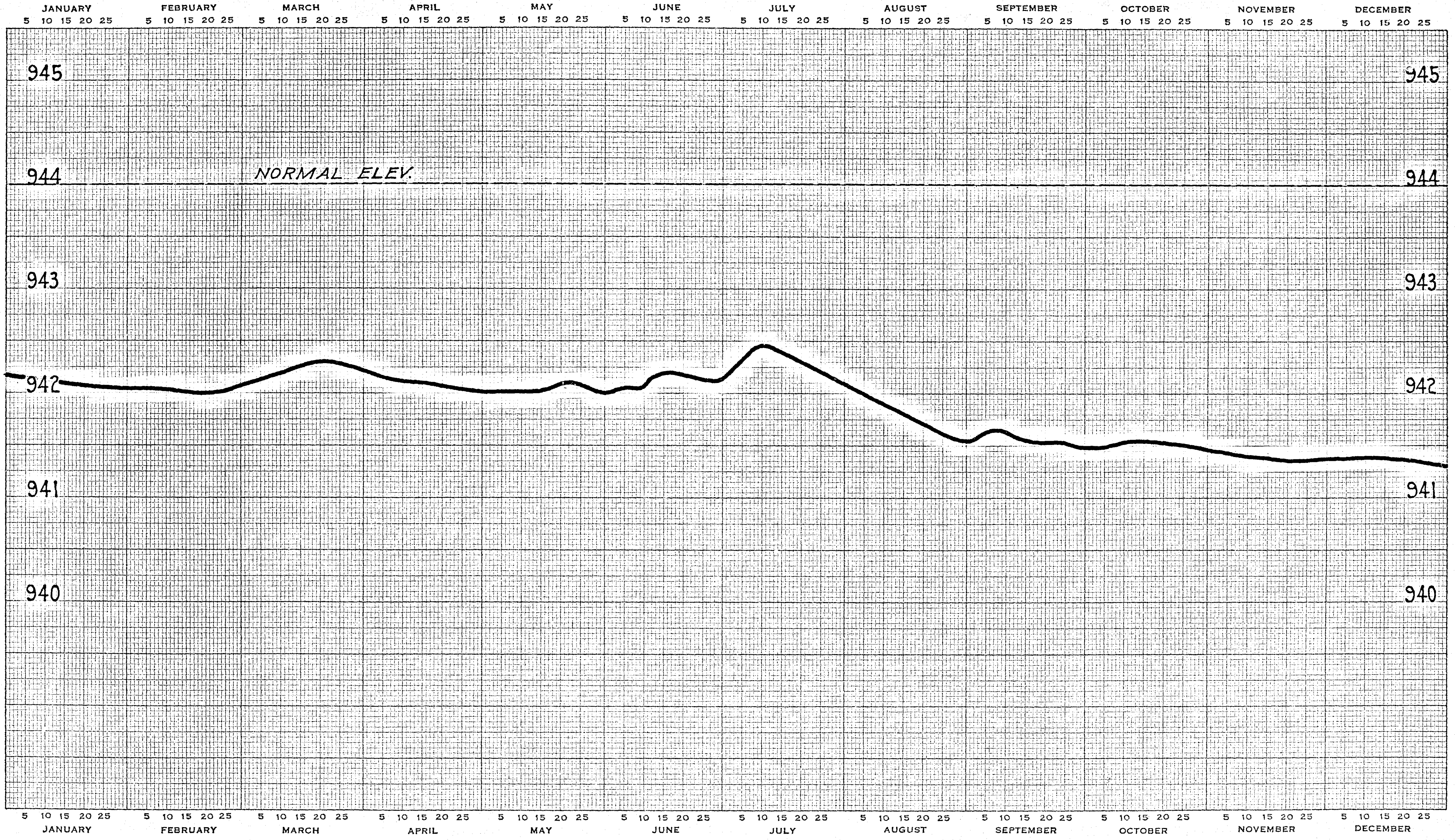
Area in Acres at Normal Elevation 58.5  
 Gallons Equiv. to One Foot on Lake 19,120,000  
 Ratio: Watershed to Lake Area 170.38

Lake ISLAND Year 1925

OFFICE OF  
 RAMSEY COUNTY ENGINEER

Sheet No. \_\_\_\_\_

DAILY RECORD SHEET



KEUFFEL & ESSER CO., N. Y. NO. 389-1411  
 One Year by Days, Calendar Year.  
 Divided 10 per unit vertically.

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

PUMPING UNIT NO. \_\_\_\_\_

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

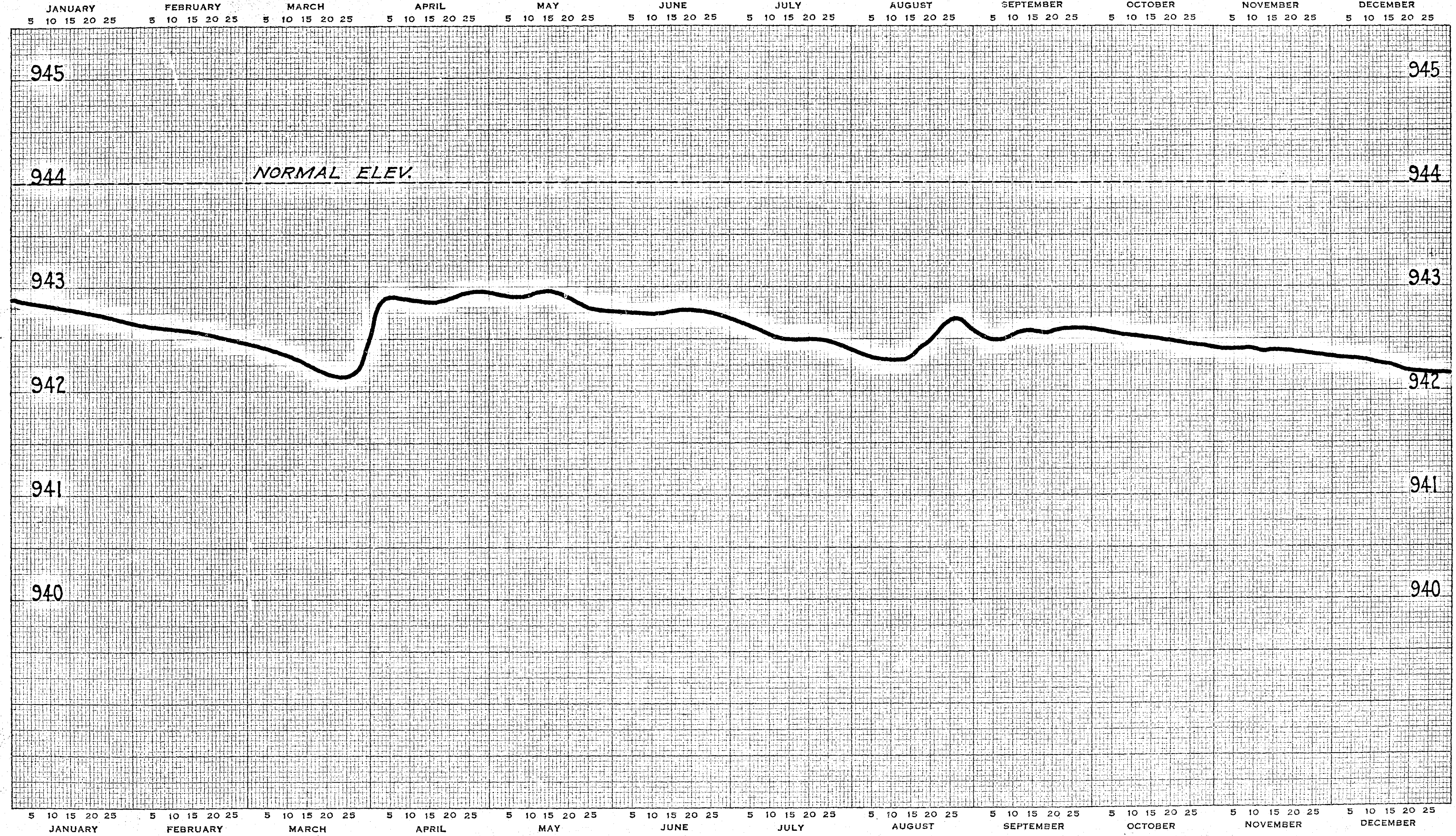
Pumping Costs This Year \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_  
 Cum. M. G. Pumped \_\_\_\_\_  
 Cum. Equiv. on Lake in Ft. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_

Precipitation This Year 24.87  
 Normal Precipitation 27.43  
 Cum. Excess-Deficiency -2.56  
 (Since 1924)

Area in Acres at Normal Elevation 58.5  
 Gallons Equiv. to One Foot on Lake 19,120,000  
 Ratio: Watershed to Lake Area 1 to .38  
 DAILY RECORD SHEET

Lake ISLAND Year 1924  
 OFFICE OF  
 RAMSEY COUNTY ENGINEER  
 Sheet No. \_\_\_\_\_



KEUFFEL & ESSER CO., N. Y. NO. 389-1411  
 One Year by Days, Calendar Year.  
 Divided 10 per unit vertically.

SEA LEVEL ELEVATION

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.	---	---	---
FEB.	---	---	---
MAR.	---	---	---
APR.	---	---	---
MAY	---	---	---
JUNE	---	---	---
JULY	---	---	---
AUG.	---	---	---
SEPT.	---	---	---
OCT.	---	---	---
NOV.	---	---	---
DEC.	---	---	---
TOTAL	---	---	---

PUMPING UNIT NO. _____			
Month	K. W. Demand	K. W. Consumed	Total Cost
JAN.	---	---	---
FEB.	---	---	---
MAR.	---	---	---
APR.	---	---	---
MAY	---	---	---
JUNE	---	---	---
JULY	---	---	---
AUG.	---	---	---
SEPT.	---	---	---
OCT.	---	---	---
NOV.	---	---	---
DEC.	---	---	---
TOTAL	---	---	---

PUMPING UNIT NO. _____			
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 \_\_\_\_\_  
 Mil. Gals. Pumped This Year \_\_\_\_\_  
 Equiv. on Lake in Ft. This Year \_\_\_\_\_  
 Av. Costs Per K. W. H. This Year \_\_\_\_\_  
 Av. Costs Per M. G. Pumped This Year \_\_\_\_\_

Cum. Pumping Cost \_\_\_\_\_  
 Cum. M. G. Pumped \_\_\_\_\_  
 Cum. Equiv. on Lake in Ft. \_\_\_\_\_  
 Cum. Av. Cost Per K. W. H. \_\_\_\_\_  
 Cum. Av. Costs Per M. G. Pumped \_\_\_\_\_