GPM REQUIRED TO DRAIN IN 24 HOURS

ACRES TO DRAIN	GPM REQUIRED FOR 1"	GPM REQUIRED FOR 2"	GPM REQUIRED FOR 3"	GPM REQUIRED FOR 6"	GPM REQUIRED FOR 12"
10	188	376	564	1,128	2,262
25	471	942	1,413	2,826	5,657
50	942	1,885	2,826	5,652	11,314
75	1,414	2,828	4,242	8,484	16,971
100	1,885	3,770	5,655	11,310	22,628
200	3,770	7,540	11,310	22,620	45,257
300	5,655	11,310	16,965	33,930	67,885
400	7,540	15,080	22,620	45,240	90,514
500	9,425	18,850	28,275	56,550	113,143

1 CUBIC FOOT OF WATER = 7.48 GALLONS
1 CUBIC FOOT OF WATER = 62.4 POUNDS
1 GALON OF WATER = 8.34 POUNDS
1 TON OF WATER = 239.8 GALLONS
1 ACRE INCH = 27,154.25 GALLONS
1 ACRE FOOT = 325,851 GALLONS
1,000,000 GALLONS PER DAY = 694.4 GPM

TO DETERMINE OPERATING COST FOR SINGLE PHASE MOTORS

$$\frac{\text{AMPS} \times \text{VOLTS}}{1000} = \text{KILOWATIS}$$

KILOWATIS x RATE = COST PER HOUR

EXAMPLE:
A 10 H.P. / 230 VOLT PUMP THAT PUMPS 2000 GPM.
10 H.P. = 44 AMPS
RATE = .06/KILOWATT

$$\frac{44 \times 230}{1000} = 10.12 \text{ KILOWATTS}$$

10.12 x .06 = .60/HOUR OR .01/MIN.
$0.01 = 2,000 GALLONS
$1.00 = 200,000 GALLONS