



**PRESERVE THE  
LAKE**

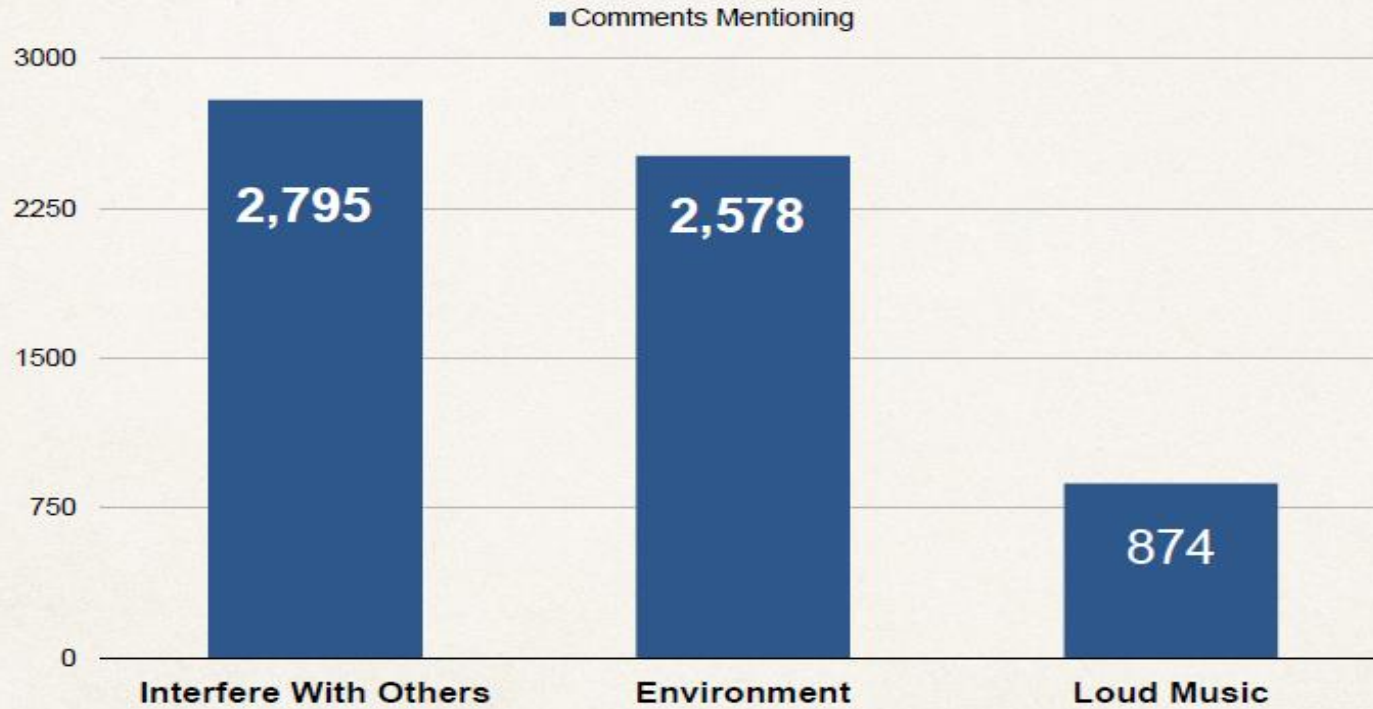
**SHARE THE LAKE**



- 
- **GREATEST DISRUPTIVE ACTIVITY EVER !**
    - ✿ **ENVIRONMENTAL THREATS**
    - ✿ **OTHER USERS' ENJOYMENT**



## 5,602 PERSONS CONCERNED ABOUT WAKESURFING



Totals more than 5,602 comments due to multiple concerns expressed per comment.

- 
- ❖ **TO ERODE SHORELINES**
  - ❖ **CAUSE RESUSPENSION OF LAKEBED SEDIMENT**
  - ❖ **DESTROY FISH SPAWNING BEDS & WATERFOWL NESTING SITES.**



600 Ft

### **Wakesurf Boats vs Non-Wakesurf Boats**

**Energy 3 - 9 X**

**Energy 1.6 X**

**Power 6 -12 X**

**Power 4 X**

Operational  
Distance

**150 Ft**

- ❖ **RECOGNIZE UNIQUE WAVE ENERGY & POWER OF WAKESURF BOATS**
- ❖ **150 Ft BASED ON 1970'S TECHNOLOGY**



**DETERMINE DISTANCE REQUIRED TO  
ATTENUATE WAVE ENERGY & POWER TO  
NON-WAKESURF BOATS AT 200 FT.**

**DISTANC**

## **Wakesurf Boats vs Non-Wakesurf Boats**

- ✿ TOTAL WAVE ENERGY > 575 FT**
- ✿ MAXIMUM WAVE POWER > 600 FT**



**LARG**

## **MALIBOU MXZ WAKESURF BOAT**

**DISTANCE REQUIRED TO ATTENUATE  
TO NON-WAKESURF BOAT AT 200 FT**

**TOTAL WAVE ENERGY 1,050 FT**

**TOTAL WAVE POWER 930 FT**

**SH**

**UNIVERSITY OF QUEBEC, MONTREAL**

**1,000 Ft REQUIRED TO  
PREVENT SHORELINE EROSION**

**UPD**

**Wakesurfing**

**SHORELINE**

**700 FT**

**1,000 FT**

**MINIMUM**

**MALIBOU MXZ**

**NEW TECHNOLOGY**

**UPD**

**Non-Wakesurfing**

**SHORELINE \_\_\_\_\_ 300 FT**

The Town of Hayward  
The Town of Round Lake  
The Town of Bass Lake  
The Town of Hunter


700 Ft



**Mequon**  
Wakesurfing  
Prohibited

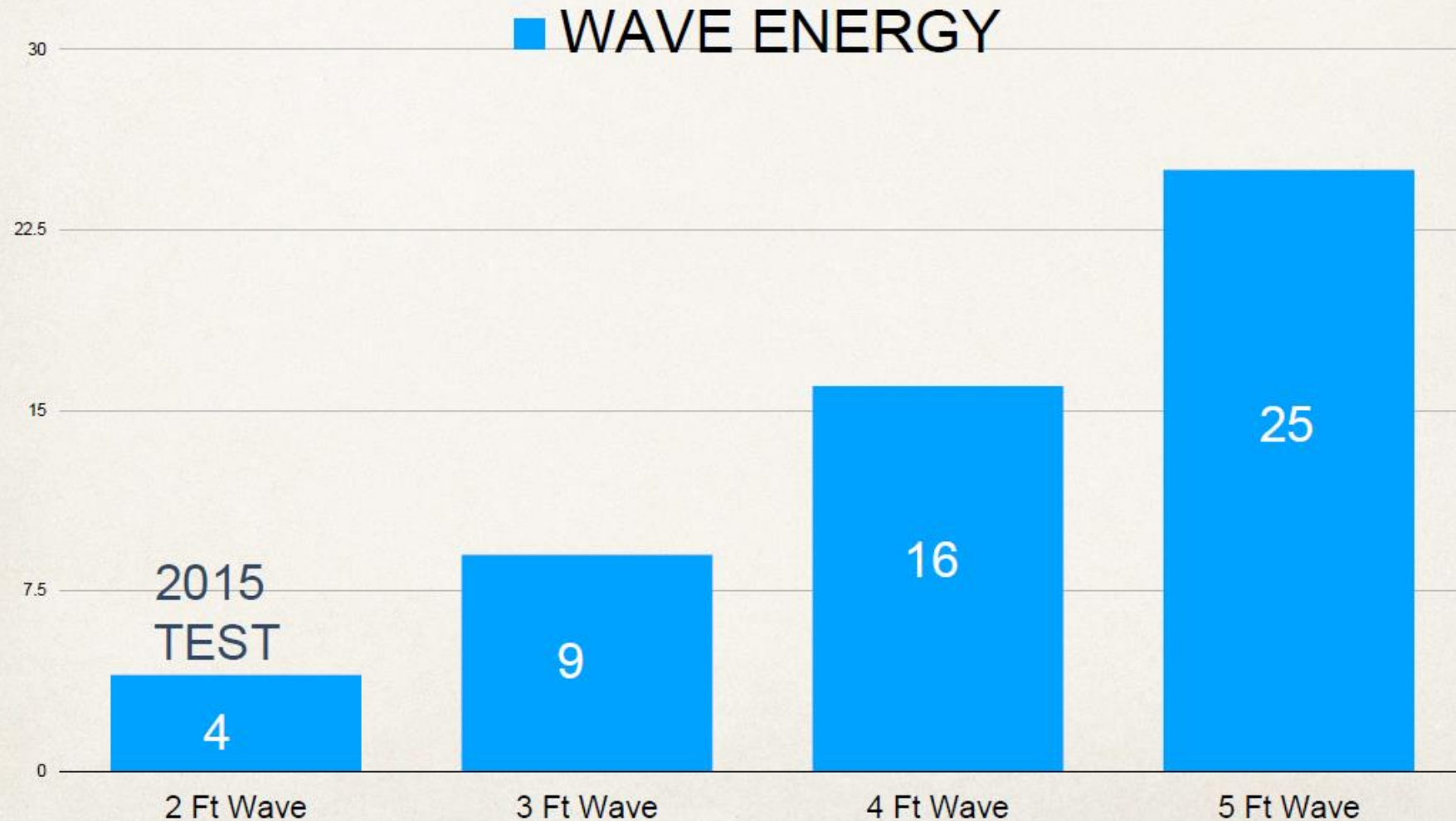
**Norway**  
Untethered  
Wakesurfing  
Prohibited


**OREGON BANNED WAKESURFING ON 29 MILES OF WILLIAMETTE RIVER**

- 
- ❖ **ADVOCATE 200 FT DISTANCE**
  - ❖ **WAVE ENERGY = WAVE HEIGHT SQUARED**
  - ❖ **TESTED 2 1/3 FT WAVE**
  - ❖ **ST ANTHONY FALLS TESTED 3 1/3 FT WAVE**

# CLIFFORD GOUDEY RULE OF THUMB

$$\text{WAVE ENERGY} = \text{WAVE HEIGHT SQUARED}$$



- 
- ❖ **OTHER STUDIES CONTRADICT FINDINGS.**
  - ❖ **NO PEER REVIEW INFORMATION.**
  - ❖ **NO VALIDATION OF COMPUTER CODES.**
  - ❖ **NO VALIDATION SHOWN FOR SIMULATIONS OF 10 FT DEPTH**
  - ❖ **WOULD HIGH QUALITY JOURNAL PUBLISH?**
  - ❖ **JEFF MARR'S ASSESSMENT OF STUDY QUALITY?**





- ❖ **UNIV. MINNESOTA - PRESTIGIOUS RESEARCH UNIVERSITY**
- ❖ **OTHER UNIVERSITIES WITH NO COMMERCIAL INTEREST**
- ❖ **STUDIES SPONSORED BY THE BOATING INDUSTRY**

**WAKESU**

## **PRESERVATION OF THE LAKE**

- ❖ **PAYETTE LAKE, ID RESEARCH — 33 Ft**
- ❖ **UNIVERSITY QUEBEC, MONTREAL — 16 Ft.**  
(Maximum Depth of Lake Where Test Conducted)
- ❖ **ST ANTHONY FALLS LAB PHASE 2 STUDY**



- ❖ **FINDINGS OF PHASE 1 STUDY WILL NOT CHANGE.**

- ❖ **PHASE 2 STUDY ADDS NOTHING NEW TO WAVE ENERGY & POWER FINDINGS.**

- ❖ **BEST SCIENTIFIC DATA AVAILABLE TODAY.**

**D**

- ❖ **CLEAR, SCIENCE BASED DISTANCE GUIDELINES ESSENTIAL TO GAIN BOATER COMPLIANCE.**
- ❖ **CRITICAL PART OF PROGRAM'S INSTRUCTION.**
- ❖ **BLOCK GUIDELINES NOT LIKED.**

**DELAY**

ACCOUNTABILITY | COLLABORATION | INTEGRITY | LEADERSHIP |  
QUALITY RESULTS | ENVIRONMENTAL STEWARDSHIP

# DON'T DELAY PROTECTING SHORELINE



## ABOUT

### **PRESERVING THE LAKE IS OUR PRIORITY**

The Lake Minnetonka Conservation District (LMCD) brings together 14 different cities, two counties, and many state and local agencies to protect, preserve and enhance Lake Minnetonka's environment, economy and vitality.

We are a uniform, coordinating body that cares for and regulates one of Minnesota's most important resources. Lake Minnetonka is a unique asset requiring unique governance. By working collaboratively across all jurisdictions, we ensure that we represent the many stakeholders who care about our enjoyment of the lake today while preserving it for many generations to come.



## **NOT ENOUGH SPACE**

- ❖ **CROWDS OUT OTHER WATER RECREATION**

- ❖ **SAFETY**

- ❖ **LOUD MUSIC**

**DO**

- ❖ **OPERATE IN MIDDLE OF LAKE**
- ❖ **MOVE ON TO ANOTHER AREA AFTER A RUN**
- ❖ **GREAT ADVICE — BUT NOT ENOUGH SPACE**

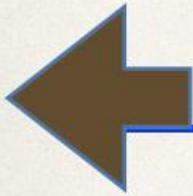


**MOST DISRU**

**MAXWELL BAY**


1/2 MILE  
WIDE

**1 MILE**



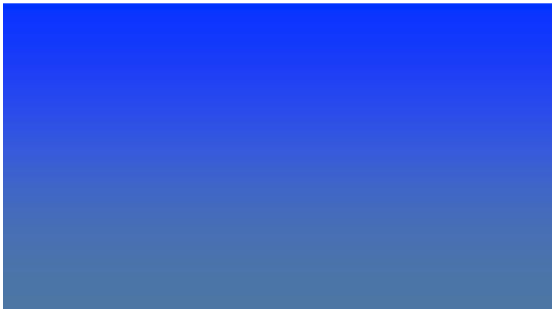
**6 MINUTES @ 10 MPH**

**10 RUNS PER HOUR**

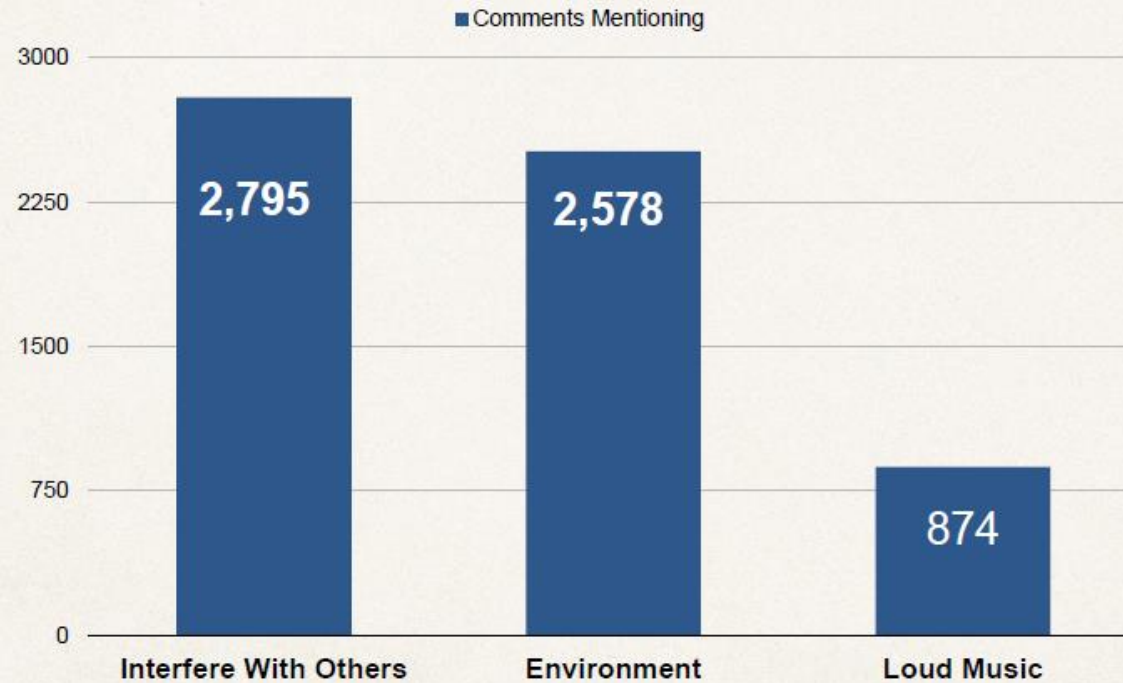
- 
- ❖ **MULTIPLE WAKESURF BOATS SIMULTANEOUSLY**
  - ❖ **SPREAD OUT — LOTS OF WAVE TURBULENCE**
  - ❖ **PREVENTS ENJOYMENT OF LAKE BY OTHERS**







## 5,602 PERSONS CONCERNED ABOUT WAKESURFING



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**✿ WAKESURF BOATS <1% OF 825,000 MN REGISTERED BOATS**

**✿ CROWDS OUT THE 99% ON SMALL BAYS**

**✿ IS IT FAIR?**



**FA**

- ❖ SHARE THE LAKE.**
- ❖ CREATE TIME SLOTS FOR WAKESURFING.**
- ❖ NO WAKESURFING BEFORE NOON ON BAYS OF 250 ACRES OR LESS OF USABLE SURFACE AREA.**
- ❖ PROVIDES RELIABLE & PREDICABLE TIMES FOR OTHERS TO ENJOY THEIR WATER RECREATION.**

CON

Preserve and enhance the Lake Minnetonka experience.



- ❖ MAXWELL 232
- ❖ STUBBS 150
- ❖ NORTH ARM. 233
- ❖ GIDEONS 250
- ❖ HARRISONS 151
- ❖ SMITHS 231
- ❖ CARMANS. 223
- ❖ JENNINGS 226

- GRAYS 122
- ST ALBANS 108
- PRIESTS 106
- FOREST LAKE 49
- OLD CHANNEL 82
- SMITHTOWN 88
- VETERNS. 62
- EXCELSIOR 68

- ROBINSONS. 28
- TANAGER LAKE 31
- BLACK LAKE 18
- SETON LAKE 4
- COFFEE COVE 24
- ST LOUIS 9
- ECHO 6





- **RULES CREATED FOR THE COMMON GOOD:**
  - ✦ **PERSONAL WATERCRAFT**
  - ✦ **FISHING**
  - ✦ **DOCKS**
  - ✦ **ATV'S & SNOWMOBILES**



## **ON BAYS OF 250 ACRES OR LESS**

**❖ WAKESURFING ALREADY RESTRICTS OTHER USES OF THE WATER.**

**❖ TIME-SLOTS WILL FREE UP USES OF THE WATER.**



## ❖ EDUCATION

- \* DISTANCE FROM SHORE / DOCKS / WATERCRAFT
- \* ENVIRONMENTAL IMPACT WAVES & PROP-WASH
- \* NO WAKESURFING BEFORE NOON
- ❖ WATER PATROL
- \* EDUCATION / WARNING / INSPECTION
- \* FINE or OTHER NON-MONETARY PENALTY

**OPPO**

**❖ DOESN'T ERASE :**

**\* ENVIRONMENTAL DAMAGE**

**\* LMCD'S MISSION**

**\* LMCD'S VISION & VALUES**

**\* YOUR SWORN DUTY TO ACHIEVE LMCD'S MISSION / VISION  
& BE FAITHFUL TO ITS VALUES**