

February 9, 2022

Re: SB 1589

Oregon Committee Members:

The Phase I Report from the University of Minnesota St Anthony Falls Lab study regarding boat generated wakes has been published. What have we learned? The report provides undeniable proof that wakesurf boats are unique from other recreational boats with respect to the wave height, total wave energy, and the total wave power they generate.

The study compared four boats under their typical operating conditions — 2 wakesurf boats in wakesurfing mode, and 2 non-wakesurf boats in a planing mode. Following is a summary of key findings described in section 6.1.2 of the report.

- Wakesurf boats produced maximum wave heights that were 2-3 times higher at an operational distance of 100 ft, and 2 times higher after 600 ft.
- Wakesurf boats produced total wave energies that were 3-9 times greater at an operational distance of 100 ft, and 3 times greater at 500ft.
- Wakesurf boats produce maximum total wave powers that were 6-12 times greater at an operational distance of 100 ft, and 4 times greater at 600 ft.
- Wave energy is a measure of the ability of the wave or packet of waves to do work such as apply force on the lake bottom or shoreline.
- Wave power quantifies the rate at which energy within a wave is delivered to a shoreline or object, and is another measure of the ability of a wave to impact the near shore environment.

As you weigh Testimony on SB 1589, please consider this scientific, peer reviewed information.

Sincerely,

Chuck Becker

Ogema, MN