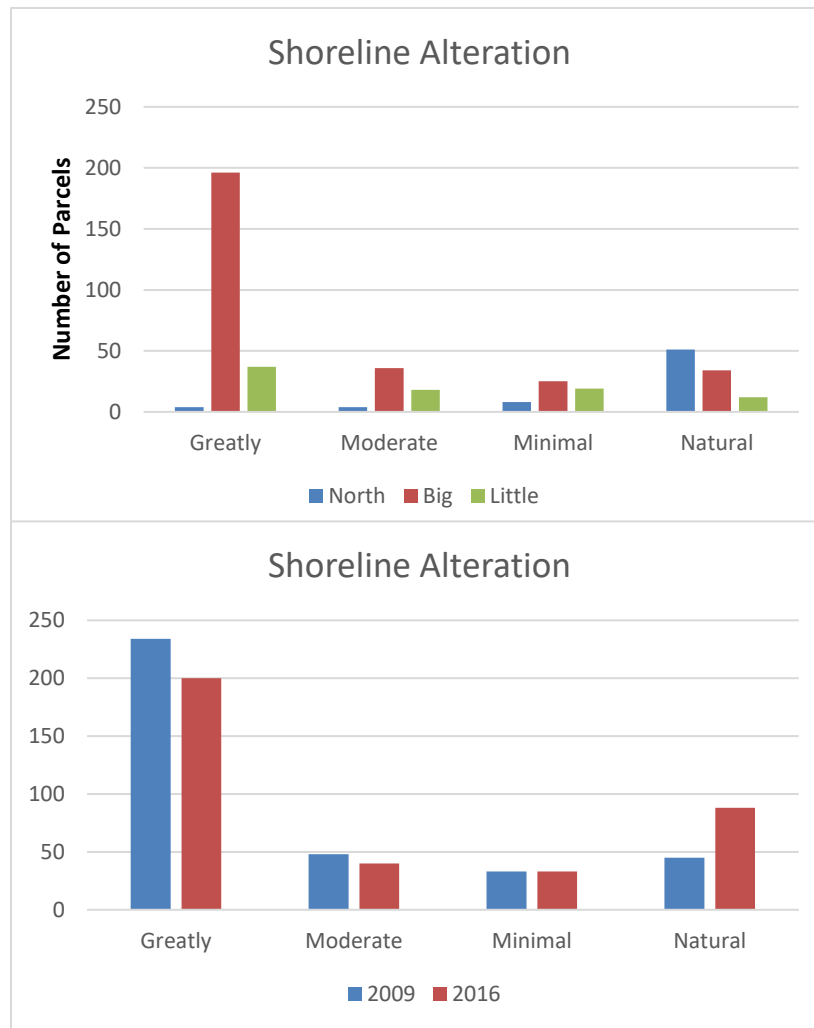


2016 Shoreline Survey Summary

The Pelican River Watershed District conducts periodic assessments of the land use, lake use, and level of shoreline alteration on lots on District Lakes. In 2016, District staff completed survey of “Big” Floyd, “North” Floyd and Little Floyd. Each parcel was documented for shoreline alterations, the use of the Shore Impact Zone (SIZ), and the amount/type of waterfront equipment.

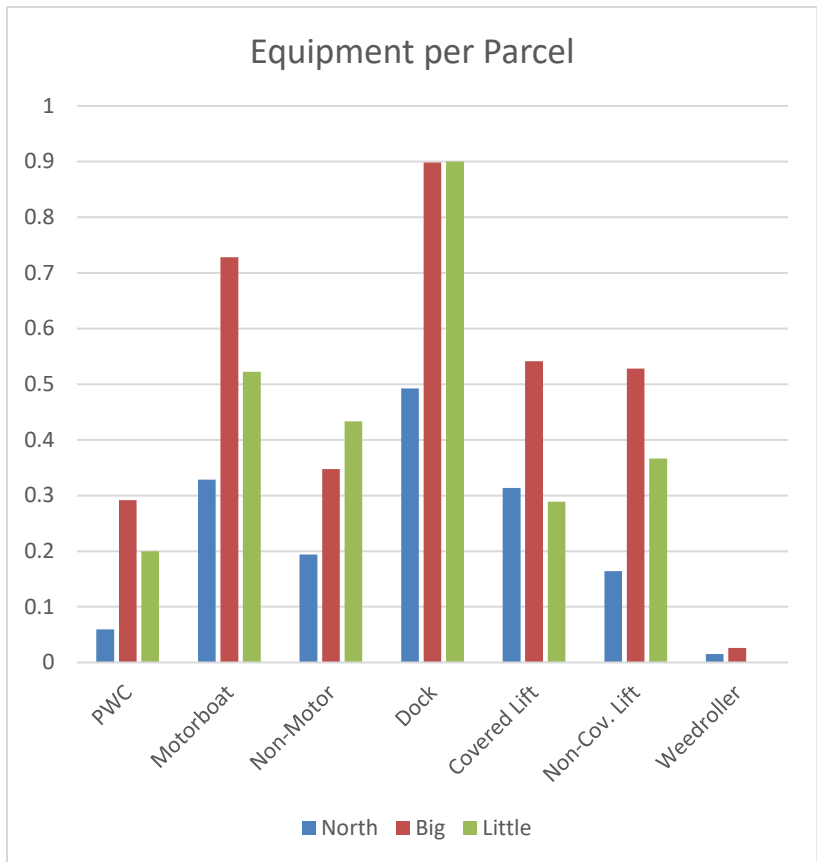
In 2016, surveys were completed on Floyd Lake, surveyed as “Big” and “North” Floyd, and Little Floyd



Lake. During the survey, the amount of altered shoreline was documented into four categories, Natural Condition, Minimally Altered, Moderately Altered, and Greatly Altered. In 2016, “North” Floyd parcels were observed having altered shorelines (minimal, moderate, or greatly) were found at 24%, compared to “Big” Floyd at 88% and Little Floyd having 86% altered shorelines. The previous survey, completed in 2009, did not separate the lake into two separate waterbodies. To compare the change over time, the results from the 2016 survey on “Big” and “Little” Floyd were added together as reported and Floyd, just as they were in 2009. The amount of greatly altered shoreline declined by 34 parcels between 2009 and 2016. On the other side, natural shorelines increased by 43 parcels.

Moderately and Minimally altered shorelines remain very similar. The significance of this may vary due to the high level of interpretation of shoreline alteration. Protocols should be established to ensure a more consistent interpretation of the shoreline conditions.

Monitoring and documenting the type and quantity of waterfront equipment is the method that was used to observe the change in lake use over time. The information in the graph below shows the type of



equipment that was observed per parcel on Floyd and Little Floyd. By comparing the quantity and type of equipment, assumptions can be made of the tendencies lakeshore owners use different lake for. It is apparent Little Floyd and Big Floyd are more heavily used with 90% of the parcels having docks. There is a positive correlation with the level of shoreline alteration and the amount of equipment per parcel. The amount of water boats and personal water craft were compared to the 2004 survey. The 2009 survey was not used in this comparison because the survey was done in late October when many of the boat had already been removed from the

lake. The results of the comparison are shown below.

