

US OPEN GOLF 2010 @ PEBBLE BEACH HOLE #7



The scenic 7th hole at Pebble Beach offers a very short yet challenging Par 3. The 3rd round of the United States Open Golf championships had many professionals hitting longer than expected results.

OptimalFlight was used to analyze launch conditions from a golfer's lob wedge, SW, PW, 9I data and the environment conditions of Pebble Beach were applied (elevated tee to green, downwind). A similar successful study was also done for club selection for Torrey Pines South #3 (US Open 2008).

Executive summary:

- The elevation difference and wind conditions of Pebble Beach #7 increased the distance of a 60 degree Lob wedge distance by 19-20 yards (broken down in three areas: 5 yards to tee to green elevation difference, 10 yards due to 10 mph tail wind, and 4-5 yards bounce and roll on green).
- The use of baseline launch monitor data on all clubs in the golf bag can be valuable in aiding proper club selection and understanding environment effects.

Details:

1. Launch data from a 60 degree Lob wedge under normal conditions, no elevated tee to green is expected to produce a 89.1 yard shot with a landing angle of 48.3 degrees.
2. This club at Pebble Beach conditions with **NO wind** yielded a 95.4 yard carry result. Landing angle increased nearly 5 degrees steeper to 53.2 degrees.
3. **10 mph of tailwind** affected carry results by adding 10 yards to downrange result or 104.8 yards while dramatically reducing landing angle to 45.2 degrees (or which means wind is causing a flatter trajectory). This flight result towards a hard surface produced an additional 4-5 yards of roll, or nearly a 20 yard longer impact.

These ball flight results and what-if analyses are available in the following four OptimalFlight reports:

http://www.optimalflight.com/download/1_OptimalFlightProfile_baseline.pdf

http://www.optimalflight.com/download/2_OptimalFlightProfile_PebbleBeach7_nowind.pdf

http://www.optimalflight.com/download/3_OptimalFlightProfile_PebbleBeach7_10mphwind.pdf

http://www.optimalflight.com/download/4_OptimalFlightProfile_PebbleBeach7_15mphwind.pdf