



# Truckee Airport Operations Analysis

## Calm Wind Winter Operations 2016-17 compared to 2020-21

## Vector Developments Added Since Last Presentation

- 1. No specific TRK modifications**
- 2. Enhanced noise monitoring subsystem**
  - Significantly improved portable noise monitoring (FPR)
  - Permanent noise monitors will be supported Q3 2021 (BTV)
  - Real-time noise display on map Q3 2021 (BTV)
- 3. Enhanced Public Portal Q3 2021**
  - Replay noise levels supported for events
  - Colored arrivals, departures, and overflights

## Peak Winter Runway Use Data Analyzed

- Winter season is Dec 15 to Apr 15
- Calm wind operations include wind speed 4MPH or less
  - Winter of 2016-17 represents before tower
  - Winter of 2020–21 represents after tower
  - Three engine types compared Jet, Turbo, and Pistons

## This Analysis Compared Winter Season 2016-17 to 2020-21

- Total operations increased about 25%
- By aircraft type:
  - Jet operations up 48%
  - Turbos down 12%,
  - Pistons up 53%

## Winter Season Runway Use Data Analyzed

- Use of RWY 02 increased the most in calm winds
  - Total arrivals up 76% (40), departures 340% (606)
  - Jet arrivals flat, jet departures up 16.7% (1)
  - Turbo arrivals up 175% (7), turbo departures down 16% (10)
  - Piston arrivals up 139% (39), piston departures up 571% (588)
- Use of RWY 29 in calm winds varies
  - Total arrivals up 24% (342), departures down 6% (99)
  - Jet arrivals up 50% (116), jet departures up 62% (164)
  - Turbo arrivals down 12% (53), turbo departures down 19% (92)
  - Piston arrivals up 53% (342), piston departures down 9% (69)

# Winter Season Calm Wind Conclusion



- Total operations **increased 25%**
  - RWY 11 up 93%
  - RWY 02 up **280%**
  - RWY 20 up 60%
  - RWY 29 up **8%**
- Jet aircraft operations increased on RWY 02 13%
- Jet aircraft operations increased on RWY 29 56%
- Piston operations increased on RWY 02 479%
- Piston operations increased on RWY 29 20%
- Unknown runways down 27%

## Relative to the 25% increase in traffic over the four years:

- In calm winds, operations on RWY 11, 02, and 20 increased significantly
- In calm winds, operations on RWY 29 decreased significantly
- Jet use of RWY 29 increased significantly (arr & dep)
- Piston use of RWY 29 for departures decreased significantly

## Fleet is changing, favoring piston operations

- Winter of 2016-17
  - Jets 15%, Turbos 28%, Pistons 47%
- Winter of 2020-21
  - Jets 18%, Turbos 20%, Pistons 58%



**See** what you've been missing

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