Exhibit 5 Exhibit 5 Page 26 of 70 AURORA STATE AIRPORT AURORA STATE AIRPORT AURORA STATE AIRPORT FIGURE 10

ASPHALT CONCRETE RUNWAY PAVEMENT SHOWING TYPICAL LONGITUDINAL AND TRANSVERSE CRACKING (NOTE 6-INCH PEN NEAR CRACK INTERSECTION)



HELICOPTER MAINTENANCE FACILITY SHOWING THE MAINTENANCE HANGAR AND HELPORT CURRENTLY UNDER CONSTRUCTION AT THE EXTREME NORTH END OF THE FIELD.



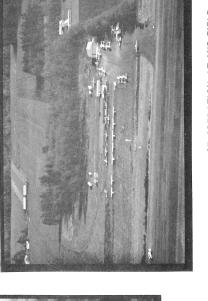






FIXED BASE FACILITIES AT NORTH END OF FIELD SHOWING TEE HANGARS, AVIONICS SHOP AND TURF AIR-ORAFT PARKING, TREES IN LOWER RIGHT ARE FAR PART 77 0857FUCTIONS.





## Economic Impact

Employees on the airport average between 100 and 135, with the majority working on maintenance for a helicopter operator. Total salaries directly generated on the airport are estimated to be about \$750,000 annually.

Facilities provided the general public include: waiting rooms, restrooms, telephone, car rental and automobile parking. Commercial aviation services to the public include aircraft rental, flight instruction, charter flying, aircraft maintenance, aviation fuel service, aircraft sales, and aircraft avionics sales and maintenance. However level of these services. All revenue-producing activities are located on private land, and generate no income to the airport owner other than a fuel flowage fee of \$0.03 per gallon. This is paid to the Oregon Division of Aeronautics which is currently revisings its rates for flowage and ingress-egress. The ingress-egress permits are issued to the three operators by the Division of Aeronautics.

One fixed base operation is located at the south end of the airport, and another operator is located in the center of the field. The third operator, a helicopter maintenance facility, is currently moving from temporary quarters at the south end of the field to permanent facilities at the extreme northeast corner of the airport. Off the north end of the airport is a parcel of land containing 40 tee-hangars for rent, turf aircraft parking and an aircraft avionics shop. For identification this area is labeled FBO-4 on Figure 4, page 9, although no Fixed Base Operation currently exists there.

## Wind Analysis

Two years of wind data was collected between May 1968 and April 1970 at the south end of the airport. This was accomplished under the supervision of the Port of Portland. The data summary appears in the appendix and the wind rose appears on the Airport Layout Plan.

Calms (less than 4 mph) occur 66.5 percent of the time. When the wind exceeds 4 mph, it seldom surpasses 13 mph and generally is either northerly or southerly. Winds in excess of 13 mph normally come from the south. This occurs only about 1.5 percent of the time, and it is rare for the wind velocity to exceed 25 mph. It is not possible with available data to correlate wind conditions with wind rose.

Freak storms, such as the Columbus Day Storm in 1962 are a rare phenomenon with only eight other such occurrances recorded in the last 100 years. During these storms sustained winds have exceeded 50 mph with 110+ mph gusts. The wind data and analysis used for this study was compared with wind measurements made at the OSU Agricultural Experiment Station 2 miles northeast of the airport. Both were found to be in agreement. The Aurora State Airport wind analysis indicates that the present runway orientation, north 7\*8' east, (true) is excellent and provides 99.5 percent crosswind coverage for crosswind components 15 mph and under.

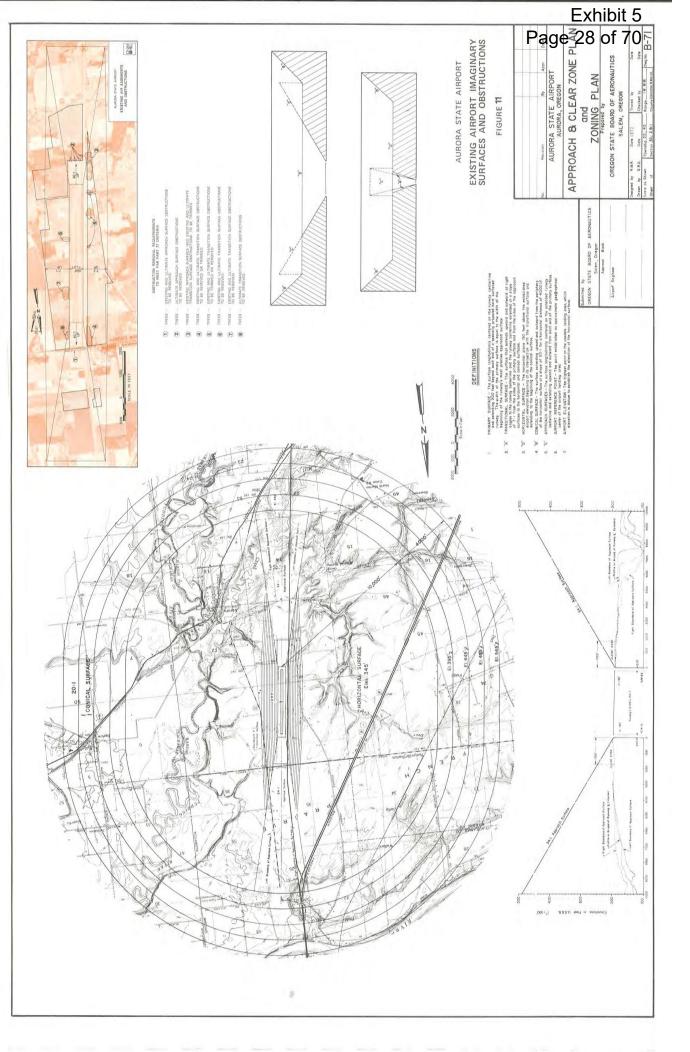
With this coverage Runway 17 can be used 49.4 percent of the time and Runway 35, 50.1 percent of the time. For 12 mph crosswind compnetis, the coverage is 99.3 percent. In this case Runway 17 may be used 49.3 percent and Runway 35, 50,0 percent of the time.

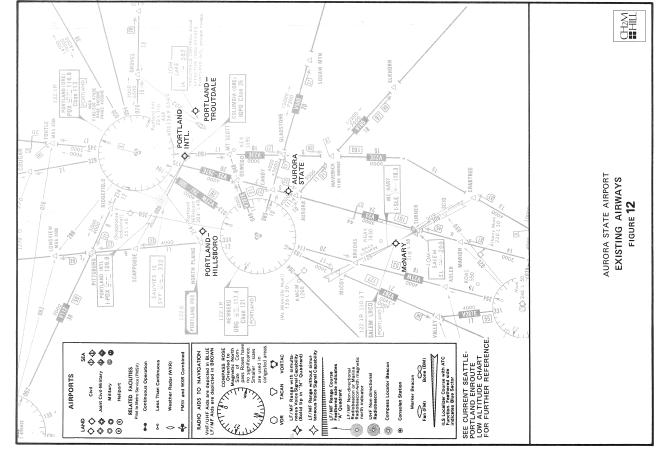
### Airspace

Figure 11 shows existing airport imaginary surfaces as developed by the Division of Aeronautics in 1972. Any object which penetrates through these geometrical planes needs evaluation as to its effect on air navigation in the vicinity of the airport. The figure also indicates obstructions that should be removed. The State owns air assements, as indicated, which permit the State to remove most of the obstructions shown.

Figure 12 shows the existing airways in the vicinity of the airport. There are no electronic navigational aids located on the airport and there is no certified weather observer on site.

Use of the Aurora State Airport during instrument weather conditions (IFR) is possible with certain restrictions. The airport is served by a nonprecision VOR/DME approach using the Newberg VORTAC. The approach is somewhat restricted because this VORTAC is also used for approaches to McMinnville Airport and is a key facility used by the Portland TRACON (Terminal Radar Control Facility). Minimums are 1000 feet celling and Facility). which is not very adequate to insure a high rate of useage during IFR weather Because Aurora State Airport lies in the Portland Terminal Airspace, some assistance in reaching the airport during conditions of low celling with good visibility below the celling is possible through the radar coverage of the Portland radar (ASR). However, just over the airport, Portland Approach Control is not able to vector aircraft lower than 3400 feet MSL. North of the airport, minimum vectoring altitude is 2500 feet. In this area, neither terrain nor tall structures pose obstruction problems. Limitations occur only due to incomplete radar coverage.





# Air Traffic Activity

For this study, air traffic activity has been compiled from FAA. State, and Port of Portland sources. Insofar as possible, data for this section was obtained from the original source. Also, data collected was correlated with his study's field prevented in other recent publications.

Air traffic activity for the Aurora State Airport has been measured in terms of numbers of aircraft based at the airport, and in terms of operations performed by these based aircraft and by titnerant aircraft at the airport. (An operation is either a landing or a takeoff.) Table 4 shows the number and types of aircraft based at the airport.

TABLE 4

DISTRIBUTION OF AIRCRAFT TYPES BASED AT AURORA STATE AIRPORT (1975)	YPES PORT
тотаг	127
MULTI-ENGINE	ω
SINGLE ENGINE, RETRACTABLE	35
SINGLE ENGINE, FIXED GEAR 4 PLACE AND LARGER	45
SINGLE ENGINE, FIXED GEAR UNDER 4 PLACE	35
HELICOPTER	4
TURBOJET	0

The number of aircraft based at the Aurora Airport fluctuates greatly throughout the year, as it does at other Portland area airports. This is because of fluctuations in the inventory of aircraft for sale and due to the seasonal nature of the flying weather. Although the number of based aircraft may fluctuate to as high as 150, the 1974 count from the Port of Portland field survey indicated 126 based aircraft.

At this time, no turbine powered aircraft or gliders are based at Aurora. In recent months, it is estimated that there have been about ten to twelve transient aircraft parked on the airport at any given time. Turbojet aircraft now use the airport intermittently.

20

#### Exhibit 5 Page 30 of 70

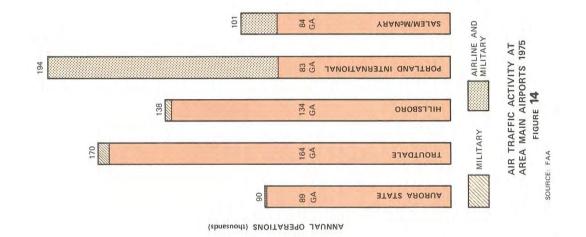


 TABLE 5

 TABLE 5

 1975 AIR TRAFFIC DATA

 1975 AIR TRAFFIC DATA

 FOR AURORA STATE AIRPORT

 OPERATIONS
 90,000

 OPERATIONS
 90,000

 TOTAL ANNUAL
 90,000

 TOTAL ANNUAL
 90,000

 TOTAL ANNUAL
 90,000

 TIPREANT ANNUAL
 90,000

 TIPREANT ANNUAL
 90,000

 TOTAL ANNUAL
 11,000

 BASED AIRCRAFT
 127

 OPERATIONS PER BASED AIRCRAFT
 709

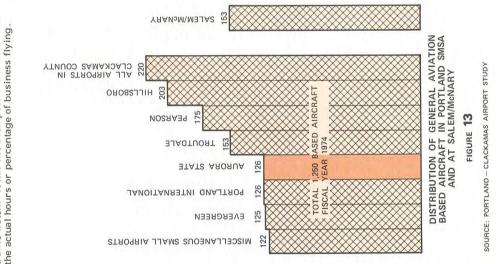
 MILES FLOWN
 2.8 million\*

 \*Approximate
 2.8 million\*

In the airport's service area, shown earlier, lives a population of about 710,000. Incomes there are above average, which factor influences air traffic levels to exceed normal national averages. Figure 13 shows the distribution of general aviation aircraft in the greater Portland area and the Aurora State Airport's share. The number of operations flown at the airport determines the level of traffic activity at the airpor Since there is no air traffic control tower on the Aurora State Airport, it was necessary to gether

The number of operations flown at the airport determines the level of traffic activity at the airport. Since there is no air traffic control tower on the Aurora State Airport, it was necessary to gather operations information from other sources. Four sources are: The <u>Oregon Aviation System Plan</u>, the FAA Master Record (Form 5010), the <u>Portland-Clackamas Airport Study</u>, and air traffic surveys made by the FAA. Apparently, the first three mentioned sources have utilized some of the same basic data, which conflict with actual counts.

This study's evaluations determined the actual activity levels to be somewhat lower than some of the above source data indicated. This study's base data was determined by adjusting actual traffic counts to correlate with known counts at other local airports with air traffic control towers. Statistics were developed as shown in Table 5. Figure 14 compares activity at Aurora State Airport with other principal regional Oregon airports.



3

Little information is available concerning the purpose for which the aircraft are flown. Approximately 35 to 40 percent of the aircraft surveyed are owned by businesses. These range from the fixed base operator's charter service to a Portland radio station's traffic watch. It has not been possible to determine the actual hours or percentance of business flyind.