

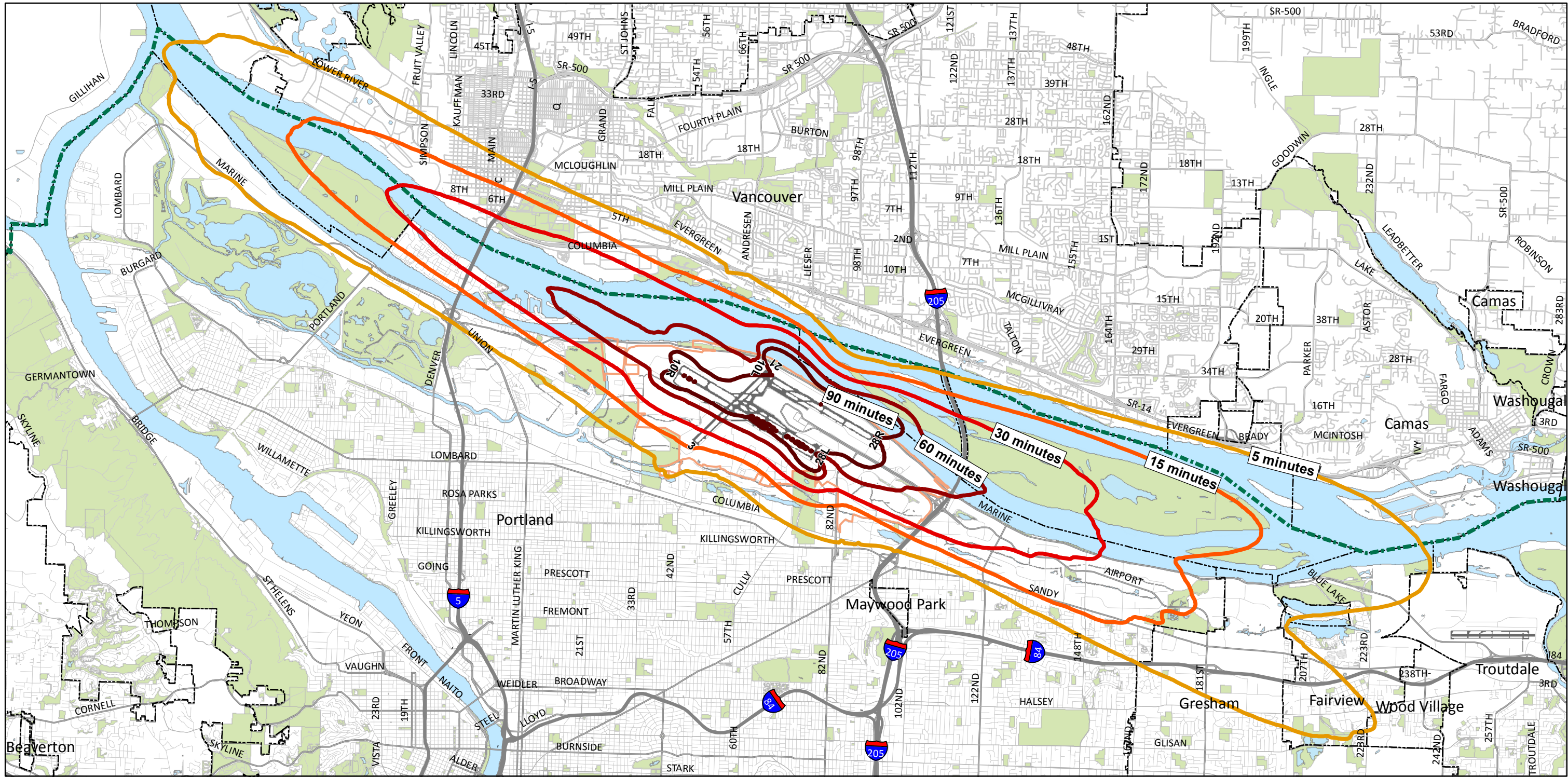
**Appendix D**  
**SUPPLEMENTAL METRICS**

## **Appendix D Supplemental Metrics**

In addition to DNL contours produced for the Noise Exposure Map Update, Time-above (TA) and Number of events-above (NA) contours were also produced. The TA metric identifies the cumulative amount of time above a selected threshold of noise exposure, thereby describing the duration of noise exposure. For this analysis, 65 dBA—the threshold for “significant” noise as defined by the National Environmental Policy Act of 1969 (NEPA)—was used as the threshold. Time-above contours for 2008 and 2017 are presented on Figures D-1 and D-2, respectively.

The NA metric identifies the cumulative number of events above the selected threshold of noise exposure—in this case, 65 dBA. For this analysis, the NA metric represents the number of aircraft overflights during an annual average day whose maximum sound level exceeds 65 dBA over predetermined points on the ground. This metric describes the frequency of the noise exposure. Number of events-above contours for 2008 and 2017 are presented on Figures D-3 and D-4, respectively.

TA contours are produced by the INM. The NA contours presented in this appendix were created by software other than the INM using tabular output for each scenario calculated by the INM. As all metrics for this analysis were calculated in the INM, the inputs remain constant for each metric.



**LEGEND**

- Airport property boundary
- - - County boundary
- - - City boundary

Sources: Time above 65 dBA Noise Exposure Contours - Jacobs Consultancy, August 2009  
 Basemap - Port of Portland, June 2009

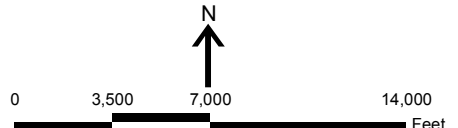
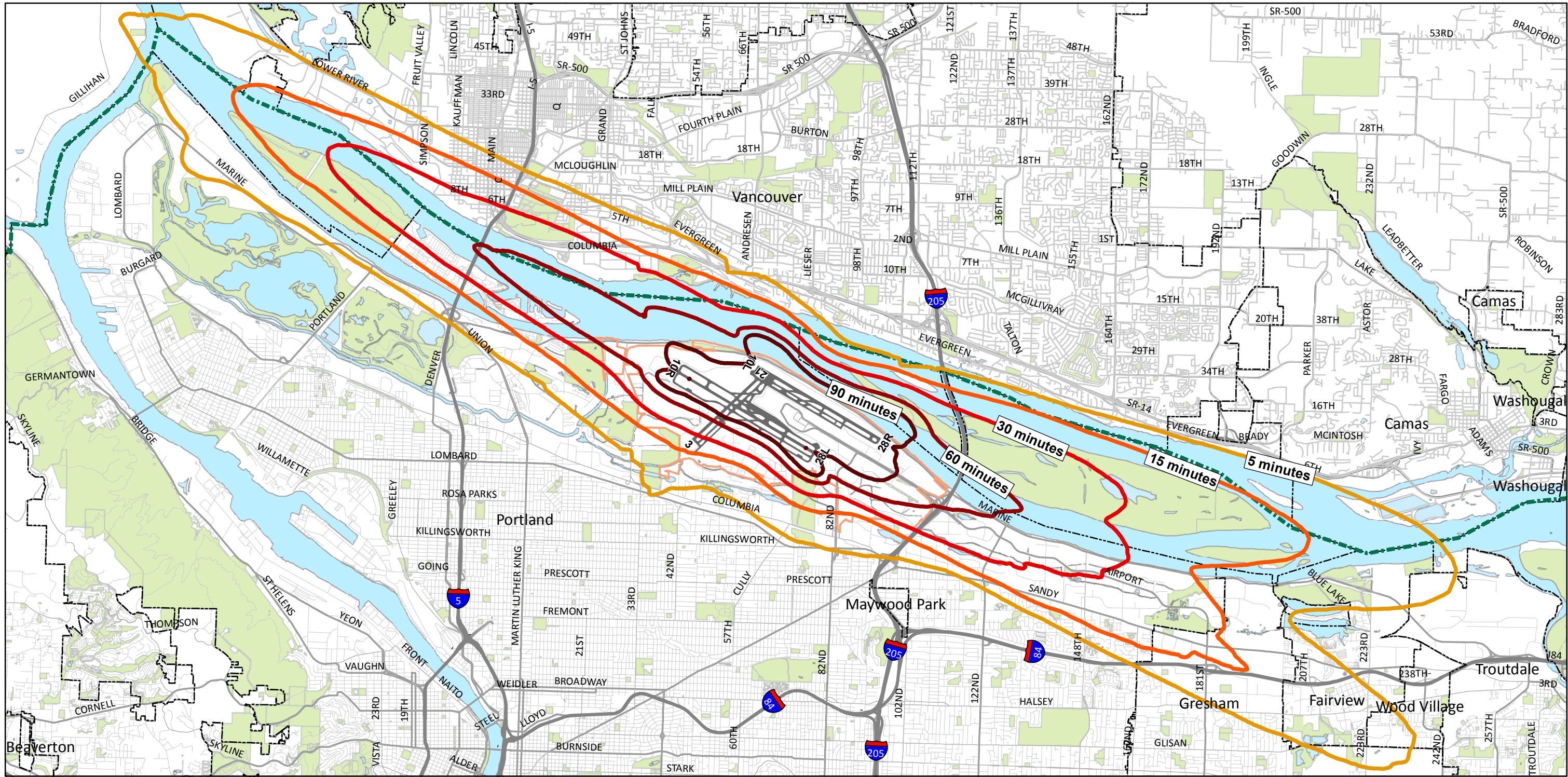


Figure D-1  
**TIME ABOVE 65 dBA NOISE EXPOSURE CONTOURS - 2008**  
 FAR Part 150 Noise Exposure Map Update  
 Portland International Airport  
 July 2010





**LEGEND**

- Airport property boundary
- - - - County boundary
- - - - City boundary

Sources: Time above 65 dBA Noise Exposure Contours - Jacobs Consultancy, August 2009  
 Basemap - Port of Portland, June 2009

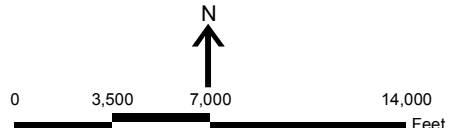
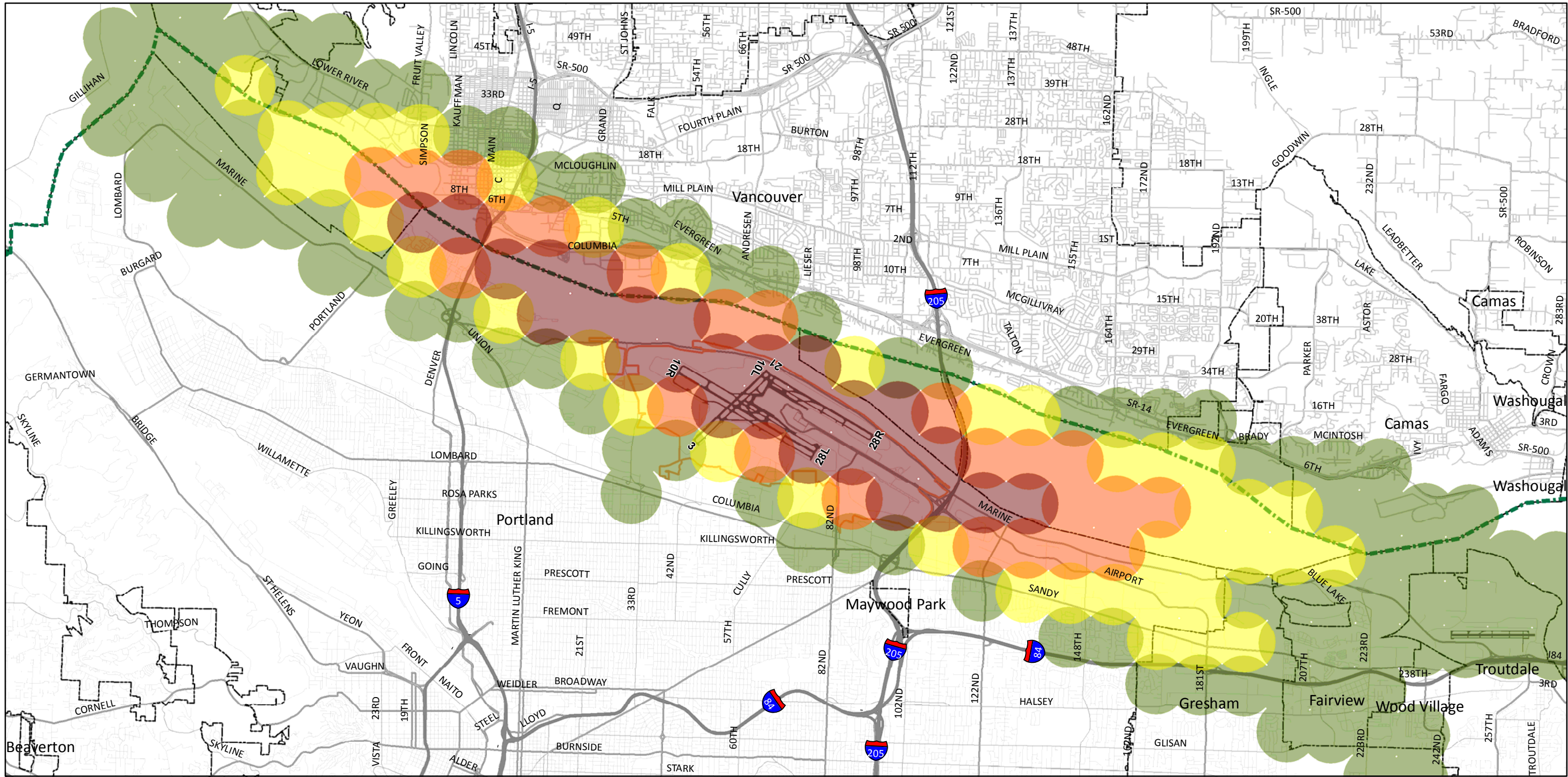


Figure D-2  
**TIME ABOVE 65 dBA NOISE EXPOSURE CONTOURS - 2017**  
 FAR Part 150 Noise Exposure Map Update  
 Portland International Airport  
 July 2010





- LEGEND**
- Airport property boundary
  - - - County boundary
  - - - - City boundary
  - More than 150 events
  - 100 to 150 events
  - 50 to 99 events
  - 10 to 49 events

Sources: Number of Events above 65 dBA per day - Jacobs Consultancy, August 2009  
 Basemap - Port of Portland, June 2009

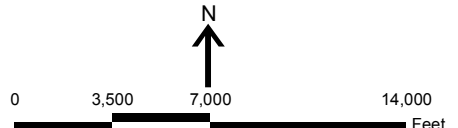
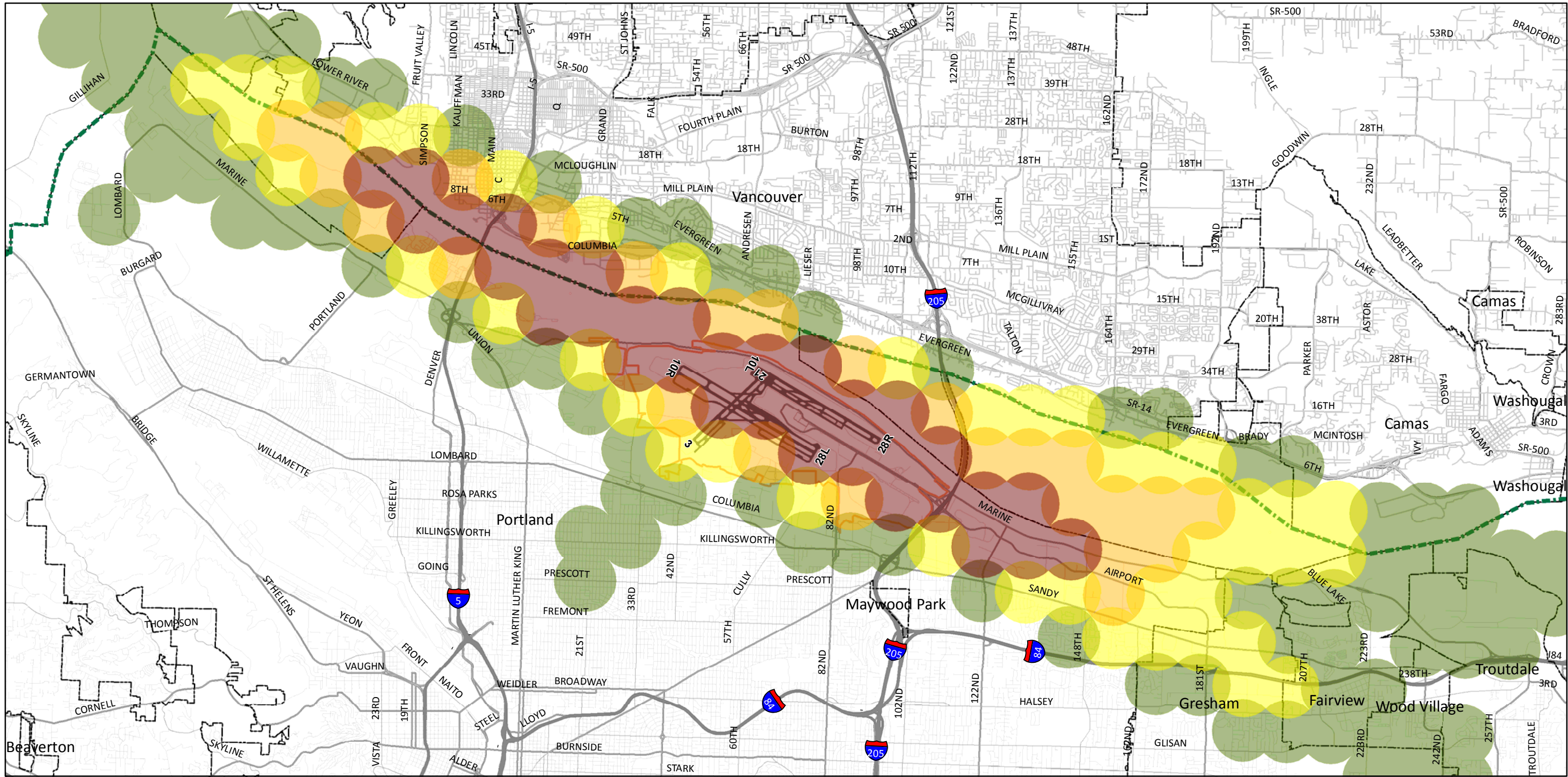


Figure D-3  
**NUMBER OF EVENTS ABOVE 65 dBA - 2008**  
 FAR Part 150 Noise Exposure Map Update  
 Portland International Airport  
 July 2010





- LEGEND**
- Airport property boundary
  - - - - County boundary
  - - - - City boundary
  - More than 150 events
  - 100 to 150 events
  - 50 to 99 events
  - 10 to 49 events

Sources: Number of Events above 65 dBA per day - Jacobs Consultancy, August 2009  
 Basemap - Port of Portland, June 2009

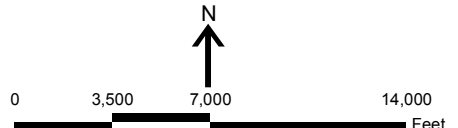


Figure D-4  
**NUMBER OF EVENTS ABOVE 65 dBA - 2017**  
 FAR Part 150 Noise Exposure Map Update  
 Portland International Airport  
 July 2010

