

# 2007 % TDG Exceedance Tracking System

The US Army Corps of Engineers tracks the number of percent TDG exceedances of the Washington and Oregon water quality standards and designates a cause for each exceedance during the spill season, April 3 through August 31. There are exceedances that occurred outside of the spill season, but they are not included in this report since they are not associated with spill for fish. The State water quality standards are 115% in the forebays and 120% in the tailwaters of Columbia and Snake River dams, under the provisions of the state water quality exemptions granted by the states. The percent TDG exceedances are based on the daily high 12 hour average.

Table 1 provides a listing of the various causes (types) that are designated to each percent TDG exceedance occurrence for the daily high 12 hour average. Table 2 designates a specific percent TDG exceedance cause (type) for all TDG exceedances at all Corps of Engineers Lower Columbia and Snake River projects.

**TABLE 1  
TYPES OF PERCENT TDG EXCEEDANCE TRACKING**

<b>Types of Exceedances:</b>
1. Exceedance due to high runoff flows and flood control efforts.
2. Exceedance due to Intertie line outages.
3. Exceedance due to unit outages during repair or maintenance.
4. Exceedance due to BPA inability to handle load so water was spilled.
5. Exceedance due to a break down in communication. Teletype went out but no change occurred or Project operator interpreted teletype differently than what was intended.
6. Exceedance due to uncertainties when using best professional judgment to apply the spill guidance criteria, e.g., travel time, degassing, water temperature effects, spill patterns.
7. Exceedance due to high TDG levels coming from the Mid Columbia River Dam (see Pasco FMS readings).
8. Exceedance due to high TDG levels coming from the Snake River projects (see Ice Harbor Dam FMS readings).
9. Exceedance due to a load rejection; the powerhouse was not working and the river was spilled.
10. Exceedance due to lack of information; the FMS gage malfunctioned and we had no information at the time of making spill change decisions.
11. Exceedance due to mechanical problems, e.g., gate was stuck open, passing debris.
12. Exceedance due to sharp rise in water temperature (a 3 degree F. or greater change in a day).
13. Exceedance due to bulk spill pattern being used which generated more TDG than expected.
14. Exceedance due to non-functioning of flow deflectors during tailwater elevation above 19 ft and especially above 26 ft.



**TABLE 2**  
**PERCENT TDG EXCEEDANCE TYPE TRACKING**  
**MAY 2007**

	Low Gran FB	Low Gran TW	Little Goose FB	Little Goose TW	Low Monu. FB	Low Monu. TW	Ice Harb FB	Ice Harb TW	McNary FB	McNary TW	John Day FB	John Day TW	The Dalles FB	The Dalles TW	BON FB	BON TW	Camas FB
5/1/2007	---	---	---	---	6	---	6	---	---	---	---	---	---	---	---	---	---
5/2/2007	---	---	---	---	6	---	6	---	---	---	---	---	---	---	---	---	---
5/3/2007	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---
5/4/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/5/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/6/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
5/7/2007	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	6
5/8/2007	---	---	---	---	6	6	6	---	---	---	---	---	6	---	---	---	---
5/9/2007	---	---	---	---	6	---	6	---	---	---	---	---	---	---	---	---	---
5/10/2007	---	---	---	---	6	---	6	---	7	---	---	---	---	---	---	---	---
5/11/2007	---	---	---	---	6	---	6	---	7	---	---	---	6	---	---	---	---
5/12/2007	---	---	---	---	6	---	6	---	7	---	---	---	---	---	---	---	---
5/13/2007	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---
5/14/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/15/2007	---	---	---	---	---	---	---	---	---	---	---	---	6	---	6	---	---
5/16/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
5/17/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/19/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/20/2007	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---
5/21/2007	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---
5/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/24/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
5/25/2007	---	---	---	---	---	---	6	---	---	---	---	---	6	---	---	---	6
5/26/2007	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	6
5/27/2007	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---
5/28/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/29/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/30/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5/31/2007	---	---	---	---	---	---	---	---	---	---	---	---	6	---	6	---	6





**TABLE 2**  
**PERCENT TDG EXCEEDANCE TYPE TRACKING**  
**AUGUST 2007**

	Low Gran FB	Low Gran TW	Little Goose FB	Little Goose TW	Low Monu. FB	Low Monu. TW	Ice Harb FB	Ice Harb TW	McNary FB	McNary TW	John Day FB	John Day TW	The Dalles FB	The Dalles TW	BON FB	BON TW	Camas FB
8/1/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/2/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/3/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/4/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/5/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/6/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/7/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/8/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/9/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/10/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/11/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/12/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/13/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/14/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/15/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/16/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/17/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/18/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/19/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/20/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/21/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/22/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/23/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/24/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6
8/25/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/26/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/27/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/28/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/29/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/30/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8/31/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>7</b>	<b>31</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>8</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>29</b>