

Appendix D

2025 Summary of TDG Exceedance Tracking

INTRODUCTION

The U.S. Army Corps of Engineers (Corps) tracks the number of days when the percent TDG exceeds the Oregon (set by Oregon Department of Environmental Quality, ODEQ) and Washington (set by Washington Department of Ecology, WDOE) water quality standards (WQS). During spill for fish passage, April through August, WDOE's and ODEQ's WQSs use the same method for calculating a daily value of TDG: the average of the 12 highest hourly readings in a calendar day. This appendix provides the TDG tracking system results. A description of each table follows.

Table D- 1 provides a definition of TDG instances (including exceedance types, 7Q10 flows, and data quality events) with the associated format used to identify the type. Table D-2 through D-9 identify the daily TDG regulatory value (computed using the methods described in the previous paragraph) and exceedance type if applicable (as defined in Table D- 1) by project forebay and tailwater.

Table D- 7 and Table D-8 provide the total number of TDG exceedances by type for each project for the lower Snake River projects and lower Columbia River projects, respectively.

Oregon and Washington also specify that April through August, the maximum two consecutive hour TDG must not exceed 127 percent and 126 percent, respectively. Table D-9 through D-11 show the daily TDG two-hour regulatory values between April and June. Table D- 12 breaks down the maximum two-hour consecutive TDG value, the number of days that exceed 126 percent Washington TDG standard, and the number of days that exceed the 127 percent Oregon TDG standard.

Table D- 13 provides a list of TDG gauges that malfunctioned during the spill season, which resulted in six hours or more of either missing or erroneous data. Malfunctioning gauge TDG instances are noted as data quality event in Table D-2 through Table D-9.

Table D- 1: TDG instance definitions

Forced Spill Exceedance (FSE)	TDG WQS exceedance due to spill above the BiOp fish spill levels. This includes exceedances due to: • High runoff flows and flood risk management efforts. • Periods when BPA load requirements are lower than actual powerhouse capacity or project is carrying system-wide reserves. • Involuntary spill at Mid-Columbia River dams resulting in high TDG levels entering the lower Columbia River. • Involuntary spill at Snake River dams resulting in high TDG levels entering the lower Columbia River. • Planned and unplanned outages of hydro power equipment including generation unit, intertie line, or powerhouse outages.
Mechanical Exceedance (ME)	TDG WQS exceedance due to the operation or mechanical failure of non-generating equipment. This includes exceedances due to: • Spill gates stuck in open position or inadvertently left open. • Increased spill in a bulk spill operation to pass debris or other special operations. • Communication errors, such as teletype were transmitted but change was not timely made or misinterpretation of intent of teletype by Project operator.
Uncertainty Exceedance (UE)	TDG WQS exceedance due to uncertainties when using best professional judgment, SYSTDG model and forecasts. This includes exceedances due to: • Uncertainties when using best professional judgment to apply the spill guidance criteria, e.g., travel time, degassing, and spill patterns. • Uncertainties when using the SYSTDG model to predict the effects of various hydro system operations, temperature, degassing, and travel time. • Uncertainties when using forecasts for flows, temperature, and wind. • Unanticipated sharp rise in water temperature (greater than 1.5 degree F. per day).
Transition Exceedance (TE)	TDG WQS exceedance due to change in the WQS from spring spill to summer spill. • Because spring WQS are higher than summer WQS and travel time between projects can be greater than a week, there may be a transition period while the system degasses subsequent to the spring spill operation.
Exceedance Following GBT (GBT)	TDG WQS exceedance during spill reduction following GBT exceedance. • There may be a transition period while the system degasses. • Because there may be different WQS applied to projects in the same reach, a WQS may not be attainable at all gauge locations.
Data Quality Event (-)	Malfunctioning FMS gauge that resulted in missing or erroneous data. The TDG cannot be evaluated for these days.
7Q10 Flow (*)	TDG above the WQS during project flow higher than 7Q10 flows. These instances are not counted towards the total number of exceedances.
Gauge Not Yet Installed (•)	Data not collected at forebay gauges during the spring as the 125% TDG WQS applies only to the tailwater gauges.

Table D- 2: Daily 12-hour Regulatory TDG Instances in April 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
4/1/2025	102	106	104	107	108	113	109	114	107	115	106	113	106	106	106	113
4/2/2025	102	105	103	107	106	111	109	112	108	113	106	112	106	106	105	109
4/3/2025	100	120	103	122	104	120	108	116	106	110	106	111	105	105	104	110
4/4/2025	100	120	102	121	103	117	107	116	106	110	106	111	106	106	104	110
4/5/2025	100	120	103	121	119	117	115	116	108	111	107	111	107	107	105	109
4/6/2025	102	120	108	121	123	118	117	117	109	112	108	111	107	108	107	110
4/7/2025	103	120	117	121	124	118	117	117	110	112	108	111	108	107	108	110
4/8/2025	103	120	119	121	122	118	115	116	110	112	107	111	107	107	107	110
4/9/2025	102	122	118	122	119	118	114	116	109	112	107	111	107	106	106	110
4/10/2025	101	122	118	122	121	119	115	117	110	122	108	117	111	115	107	122
4/11/2025	102	122	119	123	123	118	116	117	111	122	107	118	115	119	111	122
4/12/2025	102	123	119	123	123	122	117	116	111	122	107	120	114	118	112	122
4/13/2025	101	123	117	123	120	121	115	117	110	123	107	120	119	120	113	122
4/14/2025	102	124	118	124	124	121	117	117	112	123	109	121	121	123	116	122
4/15/2025	104	124	120	124	127	122	121	117	113	123	113	121	122	122	120	122
4/16/2025	104	124	123	124	127	122	122	117	115	123	116	122	121	122	119	122
4/17/2025	103	124	122	124	124	121	119	118	113	122	120	121	123	123	117	122
4/18/2025	102	124	121	124	124	122	119	117	113	121	122	119	121	123	119	122
4/19/2025	102	123	121	124	124	122	120	118	113	120	123	119	119	121	119	122
4/20/2025	103	122	120	122	123	119	119	117	112	122	119	120	115	118	113	122
4/21/2025	103	121	119	122	121	118	118	117	111	120	116	119	117	119	112	122
4/22/2025	102	120	118	120	120	117	117	117	111	120	115	120	118	119	115	122
4/23/2025	102	121	118	122	121	118	118	116	112	121	115	117	120	121	118	122
4/24/2025	103	121	120	121	121	118	118	116	114	120	116	118	-	120	119	122
4/25/2025	104	119	122	120	122	118	119	117	114	120	117	118	-	121	120	122
4/26/2025	104	120	122	120	123	118	120	117	115	119	118	119	116	120	116	122
4/27/2025	104	119	121	120	121	117	119	117	114	119	116	117	112	117	110	121
4/28/2025	102	121	118	122	117	118	115	116	110	118	114	117	110	115	108	121
4/29/2025	102	122	116	123	116	121	114	117	110	119	112	117	113	117	109	121
4/30/2025	102	123	115	123	119	121	116	117	110	121	111	117	115	118	111	121
Exceedances:																
DQE:													2			

Table D- 3: Daily 12-hour Regulatory TDG Instances in May 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
5/1/2025	103	122	117	122	122	121	119	117	112	122	111	119	119	121	115	122
5/2/2025	105	122	121	122	124	120	121	117	113	123	111	118	118	121	118	123
5/3/2025	104	122	121	122	122	120	120	116	113	122	110	118	113	118	115	122
5/4/2025	104	124	118	123	120	121	117	117	110	120	111	117	114	118	111	122
5/5/2025	102	125	117	125	121	122	118	122	111	122	114	117	117	120	114	122
5/6/2025	103	125	120	125	125	122	122	118	114	123	116	118	120	122	117	122
5/7/2025	105	124	123	124	127	120	122	117	115	121	115	118	118	121	119	121
5/8/2025	105	-	122	122	124	121	120	117	112	<u>122</u>	113	117	116	119	115	121
5/9/2025	105	-	122	124	123	122	120	119	112	123	116	119	121	122	117	122
5/10/2025	105	-	123	124	125	122	123	120	114	124	119	119	119	122	118	121
5/11/2025	106	-	125	125	126	123	124	123	114	124	119	119	119	121	117	121
5/12/2025	105	-	124	125	126	124	123	125	114	124	117	119	119	121	117	122
5/13/2025	104	127	122	125	125	124	122	125	113	123	116	118	115	119	114	122
5/14/2025	103	125	120	124	124	122	121	122	112	121	113	117	113	117	112	121
5/15/2025	104	124	117	124	122	122	119	118	110	120	111	117	113	117	110	121
5/16/2025	104	124	117	123	121	121	119	118	110	121	110	116	114	118	111	121
5/17/2025	105	124	118	123	122	122	120	117	111	121	109	117	115	118	114	122
5/18/2025	104	122	118	121	120	120	119	116	110	119	108	115	112	116	111	121
5/19/2025	103	123	118	123	119	119	117	117	108	117	107	115	111	116	112	121
5/20/2025	103	122	116	122	119	118	116	117	107	118	107	115	112	117	111	121
5/21/2025	103	122	116	122	119	118	117	117	108	119	108	117	113	117	113	121
5/22/2025	103	121	118	121	120	119	118	116	109	118	109	118	116	119	114	121
5/23/2025	104	121	119	122	121	119	119	116	112	120	108	116	115	119	114	121
5/24/2025	104	121	120	121	121	120	119	117	112	119	109	117	117	119	116	122
5/25/2025	104	121	121	122	121	118	120	117	113	117	110	117	117	120	115	121
5/26/2025	103	122	121	122	121	118	119	117	112	117	110	116	113	117	112	119
5/27/2025	103	123	119	123	120	120	117	116	111	118	112	117	114	118	113	121
5/28/2025	104	124	120	124	122	122	120	117	113	120	115	117	118	120	114	122
5/29/2025	104	125	120	125	123	122	121	118	113	123	114	117	115	119	114	122
5/30/2025	104	125	120	125	122	123	119	122	110	123	112	118	117	120	115	122
5/31/2025	104	125	121	125	126	121	123	120	111	123	112	118	117	120	117	122
Exceedances:		1														
DQE:		5														

Table D- 4: Daily 12-hour Regulatory TDG Instances in June 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
6/1/2025	104	125	120	124	123	122	121	119	112	124	111	118	116	119	112	121
6/2/2025	104	124	120	123	123	121	121	118	112	124	111	119	118	120	113	120
6/3/2025	104	124	120	123	125	121	122	116	113	124	113	119	117	120	114	120
6/4/2025	105	122	121	123	124	118	122	116	113	123	114	119	115	119	113	121
6/5/2025	105	121	122	122	124	118	121	116	112	121	115	118	117	119	113	121
6/6/2025	106	120	122	122	124	117	120	116	112	121	118	117	117	120	115	121
6/7/2025	105	119	121	122	122	117	119	116	112	120	118	116	117	119	115	122
6/8/2025	105	119	121	121	121	117	119	116	112	117	120	116	117	120	117	121
6/9/2025	105	121	121	122	121	118	119	117	113	120	121	115	118	120	118	121
6/10/2025	105	121	120	123	123	117	119	117	114	119	120	116	116	118	116	120
6/11/2025	105	121	122	-	122	118	119	116	113	120	117	117	113	117	111	121
6/12/2025	104	120	-	-	120	118	117	116	111	118	114	117	109	115	108	121
6/13/2025	102	120	117	121	119	118	115	116	108	117	111	117	109	115	106	121
6/14/2025	101	119	116	120	118	117	114	115	107	119	108	116	109	115	106	120
6/15/2025	102	-	116	120	118	117	115	114	108	118	107	116	111	116	107	120
6/16/2025	102	-	117	118	119	119	116	114	109	117	106	115	112	116	109	117
6/17/2025	102	118	116	117	118	118	116	114	110	117	105	115	108	115	110	117
6/18/2025	102	116	116	116	118	116	116	114	110	117	105	115	108	114	109	117
6/19/2025	103	116	116	116	116	121	116	114	109	117	106	115	108	115	109	117
6/20/2025	102	115	115	115	115	119	115	114	109	116	106	115	108	114	107	117
6/21/2025	102	112	111	113	112	117	111	111	106	115	105	115	106	112	106	117
6/22/2025	99	111	109	113	110	117	109	111	104	117	104	115	107	113	106	117
6/23/2025	98	112	108	112	110	117	109	111	103	120	104	115	108	115	108	116
6/24/2025	99	111	109	113	110	117	110	112	107	119	105	114	110	115	111	117
6/25/2025	100	112	109	113	111	117	112	113	108	121	104	115	108	114	110	117
6/26/2025	102	112	109	113	112	117	113	113	109	119	103	115	107	113	108	117
6/27/2025	103	112	109	113	111	117	113	113	108	118	103	114	107	114	108	116
6/28/2025	102	112	108	113	110	117	112	113	107	121	104	115	107	114	108	117
6/29/2025	102	112	108	113	110	117	112	113	108	120	106	116	109	115	110	117
6/30/2025	102	112	109	114	111	117	114	113	109	120	109	116	112	116	112	117
Exceedances:										2						
DQE:		2	1	2												

Table D- 5: Daily 12-hour Regulatory TDG Instances in July 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
7/1/2025	102	112	109	113	112	117	115	114	111	121	111	116	113	117	113	118
7/2/2025	102	111	109	113	112	117	116	114	111	120	108	116	110	115	109	118
7/3/2025	103	112	110	114	112	117	116	113	110	118	107	116	107	114	107	118
7/4/2025	102	112	110	113	112	117	115	112	109	119	106	115	107	113	106	118
7/5/2025	101	112	109	113	110	116	113	112	107	119	107	116	106	113	104	115
7/6/2025	100	112	109	113	110	-	111	112	107	120	108	115	109	115	106	116
7/7/2025	101	112	109	113	110	-	111	112	107	120	108	115	112	116	108	116
7/8/2025	101	112	109	113	111	-	112	113	109	120	107	115	111	116	109	118
7/9/2025	101	112	109	113	111	117	113	113	109	121	105	114	108	114	108	116
7/10/2025	101	112	110	113	111	117	114	113	108	121	105	114	106	112	106	116
7/11/2025	101	112	110	113	111	117	114	113	109	121	104	114	107	113	107	116
7/12/2025	102	112	110	113	110	117	113	113	109	121	105	114	110	114	107	115
7/13/2025	101	112	109	113	110	117	113	113	109	122	106	115	110	115	108	116
7/14/2025	101	112	109	113	112	117	115	113	109	122	107	115	109	114	107	117
7/15/2025	101	112	110	113	111	116	115	113	109	116	106	115	107	114	107	115
7/16/2025	102	112	110	114	112	117	116	113	109	117	107	116	112	116	108	118
7/17/2025	103	112	109	114	111	117	115	113	109	117	108	116	112	116	110	118
7/18/2025	102	112	109	113	111	117	114	113	108	116	108	115	109	114	109	118
7/19/2025	101	112	108	113	111	117	113	112	107	116	107	115	106	113	106	115
7/20/2025	101	112	108	113	110	117	112	112	107	120	106	114	106	112	105	115
7/21/2025	101	112	107	113	109	114	112	111	107	117	106	116	108	113	104	115
7/22/2025	100	112	107	112	109	-	111	108	106	119	105	116	109	115	105	116
7/23/2025	100	112	107	113	108	-	111	109	106	120	105	115	110	115	107	118
7/24/2025	101	112	107	113	110	-	112	109	106	118	105	113	109	114	108	116
7/25/2025	101	112	107	113	110	114	112	109	107	120	104	115	107	113	107	115
7/26/2025	102	112	107	113	110	115	112	109	108	120	104	115	106	113	105	116
7/27/2025	102	112	107	114	110	115	112	109	107	121	104	115	107	113	104	117
7/28/2025	101	112	107	114	109	113	110	109	107	121	104	114	108	113	105	117
7/29/2025	101	112	107	113	109	115	110	109	106	118	105	115	109	114	107	117
7/30/2025	101	112	108	113	109	115	110	108	107	118	105	115	110	115	107	116
7/31/2025	100	112	108	113	110	115	111	109	107	118	105	-	108	114	106	116
Exceedances:							3			9						
DQE:						6						1				

Table D- 6: Daily 12-hour Regulatory TDG Instances in August 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
8/1/2025	100	110	108	110	110	110	110	108	107	115	104	-	106	111	104	114
8/2/2025	100	110	108	110	109	110	110	109	107	115	105	113	107	110	104	114
8/3/2025	101	110	108	110	110	110	111	108	106	114	105	113	106	110	103	114
8/4/2025	101	109	109	109	109	109	111	108	105	113	105	112	104	109	103	114
8/5/2025	100	109	108	109	108	109	109	108	105	113	104	112	104	109	103	114
8/6/2025	100	108	107	108	107	110	108	107	104	112	104	112	105	110	102	114
8/7/2025	101	109	106	108	106	109	107	108	103	111	103	111	106	109	103	114
8/8/2025	101	109	106	108	105	109	105	108	102	111	103	112	105	110	104	114
8/9/2025	100	109	105	109	105	109	105	108	103	113	102	112	107	111	104	113
8/10/2025	100	109	104	108	104	109	105	108	103	114	103	111	108	111	106	114
8/11/2025	100	116	104	108	105	109	106	107	104	114	105	112	109	112	109	114
8/12/2025	99	116	104	108	107	109	107	108	106	115	108	112	108	113	110	114
8/13/2025	102	115	104	109	107	109	107	108	107	115	-	112	107	112	109	114
8/14/2025	102	109	106	109	106	110	107	108	105	115	-	112	104	111	106	113
8/15/2025	102	110	106	109	105	109	107	108	105	115	-	112	105	-	105	114
8/16/2025	102	110	107	109	105	109	107	107	104	115	-	112	106	-	104	114
8/17/2025	101	110	109	109	105	110	107	108	103	114	-	113	106	-	105	114
8/18/2025	101	110	108	109	105	115	106	108	103	115	-	112	107	-	104	114
8/19/2025	100	109	107	108	104	116	104	107	102	114	103	112	106	111	104	114
8/20/2025	99	109	106	108	104	117	104	107	102	113	102	111	105	110	104	114
8/21/2025	100	109	107	109	105	117	104	107	104	113	102	112	106	110	105	114
8/22/2025	101	109	107	108	105	117	104	107	104	113	105	112	108	112	106	114
8/23/2025	101	111	106	108	105	117	106	107	104	113	105	112	109	113	107	114
8/24/2025	102	111	106	108	106	115	109	108	104	114	105	112	109	112	109	114
8/25/2025	102	111	106	108	106	115	111	108	104	114	105	112	109	112	110	114
8/26/2025	102	111	106	108	106	117	113	108	105	114	105	113	109	113	109	114
8/27/2025	102	111	106	108	106	118	114	107	104	114	105	113	108	112	108	114
8/28/2025	101	110	106	108	106	116	114	108	103	113	105	113	108	112	107	114
8/29/2025	101	110	105	108	105	114	113	108	103	114	107	112	109	112	108	114
8/30/2025	101	111	106	108	105	114	113	108	102	113	106	111	106	111	107	114
8/31/2025	101	111	106	108	105	114	113	108	103	114	106	112	106	110	106	114
Exceedances:																
DQE											6	1		4		

Table D- 7¹: Total juvenile fish passage season exceedances by project and type for the Lower Snake River

TDG Exceedance Type	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	Total
FSE	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0
UE	0	1	0	0	0	0	3	0	4
TE	0	0	0	0	0	0	0	0	0
GBT	0	0	0	0	0	0	0	0	0
Grand Total	0	1	0	0	0	0	3	0	4

Table D-8: Total juvenile fish passage season TDG exceedances by project and type for the Lower Columbia River

TDG Exceedance Type	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW	Total
FSE	0	0	0	0	0	0	0	0	0
ME	0	11	0	0	0	0	0	0	11
UE	0	0	0	0	0	0	0	0	0
TE	0	0	0	0	0	0	0	0	0
GBT	0	0	0	0	0	0	0	0	0
Grand Total	0	11	0	0	0	0	0	0	11

¹ TDG thresholds are 125% Tailwater during Spring Spill and 115% Forebay; 120% Tailwater during Summer Spill and in response to GBT exceedances

Table D- 9: Daily 2-hour Regulatory TDG Instances in April 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
4/1/2025	103	107	105	107	109	114	109	114	108	116	106	113	106	107	106	113
4/2/2025	102	106	103	108	106	112	109	114	108	113	106	113	106	106	105	110
4/3/2025	101	120	103	123	105	122	108	117	107	111	106	111	105	105	105	110
4/4/2025	100	120	102	121	104	118	108	117	107	110	107	111	106	107	105	110
4/5/2025	101	120	103	121	120	118	116	117	109	111	107	112	107	107	106	110
4/6/2025	103	120	110	121	124	118	118	117	110	112	108	112	108	108	108	111
4/7/2025	103	120	118	121	124	118	117	117	110	113	108	111	108	107	108	111
4/8/2025	103	121	120	121	122	118	116	117	110	112	107	111	107	107	107	110
4/9/2025	103	122	118	122	120	118	114	117	110	112	107	111	107	106	107	111
4/10/2025	102	122	119	122	121	120	115	117	111	123	108	118	115	117	107	122
4/11/2025	103	122	119	123	123	119	117	117	112	123	108	120	117	120	112	122
4/12/2025	103	123	119	124	123	122	117	117	112	123	107	122	115	120	112	122
4/13/2025	102	124	117	124	120	121	115	117	111	124	107	122	121	123	114	122
4/14/2025	102	124	118	124	125	121	118	118	112	124	111	124	123	125	118	122
4/15/2025	104	124	121	124	127	122	122	117	114	123	114	125	124	124	120	122
4/16/2025	104	124	123	124	127	122	122	118	115	123	117	124	123	124	121	122
4/17/2025	104	124	122	125	125	122	119	119	114	122	120	124	125	124	118	122
4/18/2025	102	124	122	124	125	122	119	118	113	122	123	121	123	124	120	123
4/19/2025	103	124	121	124	124	122	120	118	114	121	123	120	122	123	120	122
4/20/2025	103	122	121	123	123	121	120	117	112	122	121	124	116	119	114	122
4/21/2025	103	122	120	122	121	119	119	117	112	121	117	121	118	120	113	122
4/22/2025	103	120	118	121	121	117	118	117	111	121	115	123	121	121	115	122
4/23/2025	103	121	118	122	121	118	118	117	113	121	115	119	122	122	119	122
4/24/2025	103	121	120	122	121	118	118	117	115	120	116	119	120	121	120	122
4/25/2025	104	119	122	120	122	118	120	117	115	120	117	119	120	121	121	122
4/26/2025	104	121	122	121	123	118	120	117	115	120	118	120	120	121	117	122
4/27/2025	104	120	122	120	122	118	119	117	114	120	117	118	115	118	112	121
4/28/2025	103	121	120	122	118	118	117	117	111	118	114	117	111	116	108	121
4/29/2025	102	123	116	123	116	122	114	117	110	120	113	118	114	118	110	121
4/30/2025	103	123	115	123	120	122	116	117	110	122	111	119	117	120	111	122
Washington																
Oregon																

Table D- 10: Daily 2-hour Regulatory TDG Instances in May 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
5/1/2025	103	123	118	123	123	121	120	117	112	122	111	121	122	123	116	123
5/2/2025	105	122	122	123	125	121	122	117	114	124	111	118	120	123	118	123
5/3/2025	105	123	122	122	125	121	121	116	113	123	110	119	115	120	115	122
5/4/2025	104	125	119	123	120	122	118	119	111	121	112	118	116	118	111	122
5/5/2025	103	125	118	125	122	123	119	124	112	123	114	118	119	121	114	123
5/6/2025	104	125	120	125	126	123	123	118	116	123	116	119	122	123	118	123
5/7/2025	106	124	123	124	128	121	123	118	116	122	116	119	120	123	119	122
5/8/2025	105	-	123	123	124	122	121	117	113	123	114	119	118	121	115	121
5/9/2025	105	-	122	124	123	122	121	120	113	124	117	122	123	123	118	122
5/10/2025	105	-	123	125	126	123	123	122	114	124	119	121	121	123	119	122
5/11/2025	106	-	125	126	126	124	124	124	114	125	119	121	121	122	118	122
5/12/2025	105	127	125	126	127	125	123	125	115	125	118	120	120	122	117	122
5/13/2025	104	127	123	125	126	124	122	125	114	123	116	119	116	120	115	122
5/14/2025	104	125	120	125	125	123	121	125	112	121	115	118	115	118	113	121
5/15/2025	104	125	118	124	122	122	120	120	111	120	111	118	114	118	110	121
5/16/2025	104	125	117	124	122	121	119	118	110	121	110	116	115	118	112	122
5/17/2025	105	124	118	123	123	122	120	117	111	121	109	117	116	119	114	122
5/18/2025	105	123	118	123	120	122	120	117	110	120	109	117	113	118	112	121
5/19/2025	103	123	118	123	120	119	118	117	108	119	107	115	113	116	112	121
5/20/2025	103	123	117	122	120	119	117	117	107	119	107	116	113	117	111	121
5/21/2025	103	122	117	122	120	118	118	117	108	119	109	119	115	119	114	121
5/22/2025	103	121	118	122	121	119	118	117	110	119	109	120	117	119	114	121
5/23/2025	104	122	119	122	122	121	119	117	112	120	109	118	117	119	114	121
5/24/2025	104	122	121	121	122	122	119	117	112	119	110	118	119	120	117	122
5/25/2025	105	121	122	123	122	119	120	117	113	118	111	118	119	121	116	122
5/26/2025	104	122	121	122	122	119	120	117	112	117	111	116	115	118	113	119
5/27/2025	103	124	119	124	121	121	118	117	111	119	113	118	116	119	113	122
5/28/2025	104	125	120	124	124	122	120	118	113	120	116	118	118	121	115	122
5/29/2025	104	125	121	125	124	123	121	120	113	123	115	118	117	120	115	122
5/30/2025	104	126	120	126	122	123	120	124	111	123	113	120	120	122	115	122
5/31/2025	104	126	121	126	127	122	123	123	112	123	112	121	118	122	117	123
Washington		2														
Oregon																

Table D- 11: Daily 2-hour Regulatory TDG Instances in June 2025

Station:	LWG	LGNW	LGSA	LGSW	LMNA	LMNW	IHRA	IDSW	MCNA	MCPW	JDY	JHAW	TDA	TDDO	BON	CCIW
6/1/2025	104	125	121	125	125	122	122	119	113	124	111	120	119	121	113	122
6/2/2025	104	125	120	124	124	122	121	118	113	124	112	120	121	122	113	122
6/3/2025	104	124	121	123	126	122	122	116	113	125	114	121	120	121	115	123
6/4/2025	105	122	122	123	125	120	122	116	113	123	114	121	116	120	114	122
6/5/2025	105	122	122	123	125	119	121	116	112	122	116	120	120	121	113	123
6/6/2025	106	120	122	123	125	117	121	116	112	121	118	119	119	121	115	122
6/7/2025	106	120	122	122	123	118	120	116	112	120	118	117	118	120	116	122
6/8/2025	105	119	121	122	122	117	119	117	112	117	120	116	118	120	117	122
6/9/2025	106	121	122	123	121	119	119	117	114	121	122	116	118	120	119	122
6/10/2025	105	121	121	123	123	118	119	117	114	120	121	117	117	119	117	122
6/11/2025	105	121	122	123	122	119	119	117	113	120	118	118	115	118	113	122
6/12/2025	105	120	122	-	122	118	118	117	111	119	115	117	110	115	108	121
6/13/2025	103	120	120	122	119	119	115	117	109	117	113	117	110	115	107	120
6/14/2025	101	118	116	120	116	116	114	113	108	119	107	116	109	114	106	121
6/15/2025	102	118	116	119	117	116	115	115	108	117	107	116	112	116	108	121
6/16/2025	102	118	117	117	119	115	116	112	110	118	107	116	113	117	109	119
6/17/2025	102	116	116	117	118	120	116	113	110	117	106	115	109	115	110	119
6/18/2025	102	115	115	116	116	114	115	113	110	117	106	115	108	114	110	119
6/19/2025	103	115	116	116	116	121	116	114	110	117	107	115	109	115	109	119
6/20/2025	101	113	113	113	113	116	112	112	109	117	106	115	108	114	108	118
6/21/2025	102	113	112	113	112	117	112	112	106	115	105	115	106	113	106	118
6/22/2025	100	112	109	113	110	118	109	111	104	118	104	115	107	114	106	118
6/23/2025	99	112	109	113	110	117	110	112	104	121	104	116	109	115	108	119
6/24/2025	99	111	110	113	111	117	111	112	108	120	105	114	111	116	111	119
6/25/2025	101	112	109	113	111	117	112	113	108	121	104	115	109	115	111	119
6/26/2025	102	112	110	113	112	117	114	114	109	120	104	115	107	114	109	118
6/27/2025	103	112	109	113	112	117	113	114	109	118	103	115	107	114	108	119
6/28/2025	103	112	108	113	111	117	113	113	108	121	104	115	107	114	108	118
6/29/2025	102	113	108	113	110	117	113	113	109	120	107	116	110	115	110	118
6/30/2025	102	113	109	114	111	117	114	114	110	120	110	117	113	117	113	118
Washington:																
Oregon:																

Table D- 12²: Maximum two consecutive hour TDG, number of days with two consecutive hour TDG above 126%, number of days with two consecutive hour TDG above 127% at project tailwaters

Station	Gauge ID	Maximum two consecutive hour % TDG	126% Exceedance Days (WA)	127% Exceedance Days (OR)
Lower Granite Tailwater	LGNW	127	2	
Little Goose Tailwater	LGSW	126	0	
Lower Monumental Tailwater	LMNW	125	0	
Ice Harbor Tailwater	IDSW	125	0	
McNary Tailwater	MCPW	125	0	0
John Day Tailwater	JHAW	125	0	0
The Dalles Tailwater	TDDO	125	0	0
Bonneville Tailwater	CCIW	123	0	0
		Total Exceedances:	2	0

Table D- 13³: Malfunctioning TDG gauges from April through August 2025

Project	Gauge ID	Dates	Days of Missing or Erroneous Data	Reason for Erroneous Data
Lower Granite Tailrace	LGNW	5/8-5/12	5	Failed Sensor
		6/15-6/16	2	Ruptured Membrane
Little Goose Forebay	LGSA	6/12	1	Ruptured Membrane
Little Goose Tailwater	LGSW	6/11-6/12	2	Ruptured Membrane and Transmit Failure
Lower Monumental Tailwater	LMNW	7/6-7/8	3	Ruptured Membrane
		7/22-7/24	3	Ruptured Membrane
John Day Forebay	JDA	8/13-8/18	6	Ruptured Membrane
John Day Tailwater	JHAW	7/31-8/1	2	Ruptured membrane
The Dalles Forebay	TDA	4/24-4/25	2	Failed sensor
The Dalles Tailwater	TDDO	8/15-8/18	4	Ruptured Membrane

² April through August were assessed for TDG values greater than 126%. TDG instances were not included when project flow exceeded 7Q10 flows.

³ Table D-5 includes only days when there is 6 hours or more of either missing or erroneous gauge data.