

Cowlitz

Non-Power

			MAY	MOS
Bottom of Conservation		ac-ft	0	1,326,000
		ft	0	746
Bottom of Flood Control		ac-ft	0	1,326,000
		ft	0	746
Maximum Evacuation Rate		cfs	69,000	69,000
Normal Evacuation Rate		cfs	14,000	14,000
Spillway Crest		ac-ft	63,100	1,162,000
		ft	385	729
Top of Conservation		ac-ft	133,700	1,686,000
		ft	425	778
Top of Dam		ac-ft	184,200	1,762,000
		ft	445	785
Top of Flood		ac-ft	133,700	1,686,000
		ft	425	778
Top of Max Flood		ac-ft	133,700	1,686,000
		ft	425	781

Deschutes

Non-Power

			OCH	PRV
Active Storage		ac-ft	28,353	88,674
Bottom of Conservation		ac-ft	1,520	1,890
		ft	3,049	3,114
Bottom of Flood Control		ac-ft	35	1,890
		ft	3,049	3,114
Maximum Evacuation Rate		cfs	500	3,000
Spillway Crest		ft	3,131	3,235
Streambed		ft	3,018	3,076
Top of Conservation		ac-ft	28,353	88,674
		ft	3,114	3,211
Top of Dam		ft	3,143	3,264
Top of Flood		ac-ft	45,540	148,633
		ft	3,131	3,235
Top of Flood Control		ac-ft	45,540	148,633
Top of Max Flood		ac-ft	50,276	228,826
		ft	3,136	3,258

Lewis

Non-Power

			MER	SWF	YAL
Active Storage		ac-ft	251,000	413,600	188,000
Bottom of Conservation		ac-ft	155,500	279,500	200,000
		ft	165	878	430
Bottom of Flood Control		ac-ft	155,500	279,500	200,000
		ft	165	878	430
Maximum Evacuation Rate		cfs	11,500	9,200	9,500
Normal Evacuation Rate		cfs	11,500	9,200	9,500
Spillway Crest		ac-ft	279,000	490,680	286,000
		ft	205	950	460
Top of Conservation		ac-ft	406,500	693,111	388,000
		ft	240	1,000	490
Top of Dam		ac-ft	408,702	749,883	442,690
		ft	240	1,012	502
Top of Flood		ac-ft	406,500	693,111	0
		ft	240	1,000	0
Top of Flood Control		ac-ft	0	0	388,000
		ft	0	0	490
Top of Max Flood		ac-ft	406,500	693,111	388,000
		ft	240	1,000	490

Rogue

Non-Power

			APP	EMI
0	WetWell1-Port2	ft	1,965	0
	WetWell1-Port4	ft	1,906	0
	WetWell2-Port1	ft	1,977	0
	WetWell2-Port3	ft	1,941	0
	WetWell2-Port5	ft	1,849	0
Bottom of Conservation		ac-ft	5,150	1,530
		ft	1,854	2,131
Bottom of Flood Control		ac-ft	14,100	1,530
		ft	1,889	2,131
Bottom of Multi-Purpose		ac-ft	5,150	0
		ft	1,854	0
Drainage		ft2	6,216,883,200	0
Maximum Evacuation Rate		cfs	4,500	0
Normal Evacuation Rate		cfs	4,500	0
Spillway Crest		ac-ft	40,960	0
		ft	1,944	0
Streambed		ft	1,752	2,058
Toe of Ramp	Copper	ft	1,922	0
	FrenchGulch	ft	1,860	0
	HartTish	ft	1,930	0
Top of Conservation		ac-ft	75,900	20,530
		ft	1,987	2,210
Top of Dam		ac-ft	81,900	0
		ft	1,994	2,254
Top of Flood		ac-ft	75,900	0
		ft	1,987	0
Top of Flood Control		ac-ft	0	40,530

			APP	EMI
Top of Flood Control		ft	0	2,241
Top of Max Flood		ac-ft	75,900	46,700
		ft	1,987	2,248
Top of Multi-Purpose		ac-ft	75,900	0
		ft	1,987	0
Top of Operating		ac-ft	75,900	0
		ft	1,987	0
WCM-Minimum-PUB		cfs	50	0

Power

			LOS
Bottom of Conservation		ac-ft	144,234
		ft	1,751
Bottom of Flood Control		ac-ft	274,093
		ft	1,812
Bottom of Multi-Purpose		ac-ft	144,234
		ft	1,751
Bottom of Power		ac-ft	61,422
		ft	1,690
Drainage		ft2	18,790,041,600
Interim Risk Reduction Measure		ac-ft	450,337
		ft	1,872
Maximum Evacuation Rate		cfs	10,000
Normal Evacuation Rate		cfs	10,000
Spillway Crest		ac-ft	303,256
		ft	1,823
Streambed		ft	1,537
Toe of Ramp	JosephStewart	ft	1,812
	Takelma	ft	1,752
Top of Conservation		ac-ft	450,837
		ft	1,872
Top of Dam		ac-ft	483,849
		ft	1,882
Top of Flood		ac-ft	450,837
		ft	1,872
Top of Max Flood		ac-ft	450,837
		ft	1,872
Top of Multi-Purpose		ac-ft	450,837
		ft	1,872
Top of Operating		ac-ft	450,837

			LOS
Top of Operating		ft	1,872
Top of Power		ac-ft	144,234
		ft	1,751
WCM-Minimum-PUB		cfs	500

Non-Power

			APP	EMI
0	WetWell1-Port2	ft	1,965	0
	WetWell1-Port4	ft	1,906	0
	WetWell2-Port1	ft	1,977	0
	WetWell2-Port3	ft	1,941	0
	WetWell2-Port5	ft	1,849	0
Bottom of Conservation		ac-ft	5,150	1,530
		ft	1,854	2,131
Bottom of Flood Control		ac-ft	14,100	1,530
		ft	1,889	2,131
Bottom of Multi-Purpose		ac-ft	5,150	0
		ft	1,854	0
Drainage		ft2	6,216,883,200	0
Maximum Evacuation Rate		cfs	4,500	0
Normal Evacuation Rate		cfs	4,500	0
Spillway Crest		ac-ft	40,960	0
		ft	1,944	0
Streambed		ft	1,752	2,058
Toe of Ramp	Copper	ft	1,922	0
	FrenchGulch	ft	1,860	0
	HartTish	ft	1,930	0
Top of Conservation		ac-ft	75,900	20,530
		ft	1,987	2,210
Top of Dam		ac-ft	81,900	0
		ft	1,994	2,254
Top of Flood		ac-ft	75,900	0
		ft	1,987	0
Top of Flood Control		ac-ft	0	40,530
		ft	0	2,241
Top of Max Flood		ac-ft	75,900	46,700

			APP	EMI
Top of Max Flood		ft	1,987	2,248
Top of Multi-Purpose		ac-ft	75,900	0
		ft	1,987	0
Top of Operating		ac-ft	75,900	0
		ft	1,987	0
WCM-Minimum-PUB		cfs	50	0

Willamette

Non-Power

			BLU	COT	DOR	FAL	FRN
Bottom of Conservation		ac-ft	4,000	3,140	7,100	9,505	2,800
		ft	1,180	750	770	728	353
Bottom of Flood Control		ac-ft	4,000	3,140	7,100	9,505	2,800
		ft	1,180	750	770	728	353
Bottom of Multi-Purpose		ac-ft	4,000	3,140	7,100	9,505	2,800
		ft	1,180	750	770	728	353
Bottom of Secondary Flood Control		ac-ft	3,970	0	0	0	0
		ft	1,180	0	0	0	0
Bottom of Stilling Well		ft	1,149	735	755	0	350
Centerline	Fishhorn-Lower	ft	0	0	0	724	0
	Fishhorn-Middle	ft	0	0	0	769	0
	Fishhorn-Upper	ft	0	0	0	804	0
	Penstock	ft	0	0	747	0	0
Diameter	Penstock	ft	0	0	10	0	0
Drainage		ft2	2,425,420,800	2,955,110,400	7,387,776,000	5,129,625,600	7,778,073,600
Height	RegulatingOutlets	ft	8	0	6	10	10
Interim Risk Reduction Measure		ac-ft	76,400	0	0	102,199	0
		ft	1,343	0	0	822	0
Invert-Inlet	RegulatingOutlets	ft	1,132	719	739	670	339
Invert-Outlet	RegulatingOutlets	ft	0	0	0	0	340
Maximum Evacuation Rate		cfs	3,700	3,000	5,000	4,500	4,000
Normal Evacuation Rate		cfs	3,000	2,500	4,000	3,800	3,000
Pool-FloodControl		ac-ft	70,560	30,000	70,500	113,657	108,630
Pool-FloodControl_Max		ac-ft	89,520	0	0	123,160	111,430
Pool-FloodControl_Secondary		ac-ft	15,290	0	0	0	0
Pool-Operating		ac-ft	89,520	32,940	77,500	123,130	111,430
RegulatingOutlets		unit	2	3	5	2	4

			BLU	COT	DOR	FAL	FRN
Spillbays		unit	2	1	1	2	6
Spillway Crest		ac-ft	58,000	32,930	77,520	59,014	12,330
		ft	1,321	791	835	792	359
Spillway Used		n/a	1	1	1	1	1
Spillway-Top of Gate-Closed		ft	1,357	0	0	834	376
Streambed		ft	1,092	708	721	673	333
Toe of Ramp	BakerBay	ft	0	0	765	0	0
	Cascara	ft	0	0	0	815	0
	FernRidgeShores	ft	0	0	0	0	367
	HarmsPark	ft	0	0	820	0	0
	Lakeside	ft	0	745	0	0	0
	Lookout	ft	1,330	0	0	0	0
	NorthShore	ft	0	0	0	729	0
	Orchard	ft	0	0	0	0	364
	Perkins	ft	0	0	0	0	368
	Richardson	ft	0	0	0	0	365
	SaddleDam	ft	1,295	0	0	0	0
	WilsonCreek	ft	0	779	0	0	0
Top of Conservation	Winberry	ft	0	0	0	803	0
	Spillway	cfs	37,500	0	0	70,000	45,000
			ac-ft	82,800	31,780	72,100	115,960
	ft		1,350	790	832	830	374
Top of Dam		ac-ft	94,448	55,354	128,800	132,474	180,926
		ft	1,362	808	865	839	382
Top of Flood	Spillway	cfs	53,200	40,800	97,500	82,500	45,000
		ac-ft	89,500	32,930	77,520	123,162	111,380
		ft	1,357	791	835	834	375
Top of Max Flood		ac-ft	89,500	47,610	128,650	123,162	0
		ft	1,357	803	860	834	375
Top of Max Flood Control		ac-ft	0	0	0	0	111,380
Top of Multi-Purpose		ac-ft	82,800	31,780	72,100	115,960	97,280

			BLU	COT	DOR	FAL	FRN
Top of Multi-Purpose		ft	1,350	790	832	830	374
Top of Operating	Spillbay	cfs	0	40,800	0	0	0
	Spillway	cfs	53,200	40,800	0	82,500	45,000
		ac-ft	89,500	47,610	128,650	123,162	111,380
		ft	1,357	803	860	834	375
Top of Secondary Flood Control		ac-ft	19,260	0	0	0	0
		ft	1,250	0	0	0	0
Turbines		unit	0	0	0	0	0
Width	RegulatingOutlets	ft	5	4	5	6	7
allROs-Open100Pct-Top of Conservation		cfs	8,270	3,831	9,140	7,720	8,260
perRO-Open100Pct-Bottom of Conservation		cfs	1,855	810	1,077	2,440	1,140
perRO-Open100Pct-Top of Conservation		cfs	4,135	1,277	1,828	3,860	2,065
perRO-Open10Pct-Bottom of Conservation		cfs	150	83	105	250	130
perRO-Open10Pct-Top of Conservation		cfs	327	126	176	400	190
perRO-Open80Pct-Bottom of Conservation		cfs	1,243	611	754	1,930	955
perRO-Open80Pct-Top of Conservation		cfs	2,773	970	1,336	3,120	1,715

Power

			BCL	CGR	DET	DEX	FOS	GPR	HCR	LOP
Average	Powerhouse	cfs	3,267	993	5,133	4,013	3,067	4,300	1,680	8,420
Bottom of Conservation	Powerhouse	cfs	0	1,380	4,960	4,200	3,420	4,420	1,700	8,100
		ac-ft	0	52,200	148,267	0	31,100	325,528	155,400	113,619
		ft	0	1,532	1,450	0	613	922	1,448	825
Bottom of Flood		ft	0	0	0	690	0	0	0	0
Bottom of Flood Control		ac-ft	0	52,200	148,267	0	31,100	325,528	155,400	113,619
		ft	1,206	1,532	1,450	0	613	922	1,448	825
Bottom of Multi-Purpose		ac-ft	0	52,200	148,267	0	31,100	159,900	155,400	113,619
		ft	0	1,532	1,450	0	613	922	1,448	825
Bottom of Power	Powerhouse	cfs	3,200	820	4,200	4,000	3,100	3,900	1,600	7,800
	Unit1	cfs	3,200	410	2,100	4,000	1,550	1,950	800	2,600
	Unit2	cfs	0	410	2,100	0	1,550	1,950	800	2,600
	Unit3	cfs	0	0	0	0	0	0	0	2,600
		ac-ft	0	43,500	111,892	22,500	0	199,678	106,600	102,242
		ft	1,182	2,996	1,425	690	0	887	1,414	819
Bottom of Secondary Flood Control		ac-ft	0	52,200	0	0	0	325,628	211,000	113,620
		ft	0	1,532	0	0	0	922	1,448	825
Bottom of Stilling Well		ft	1,141	1,505	1,281	685	602	881	1,402	750
Centerline	Penstock	ft	0	0	1,403	0	590	810	1,390	780
Diameter	Penstock	ft	0	11	15	0	13	14	12	18
Drainage		ft2	12,517,401,600	5,770,828,800	12,127,104,000	27,934,156,800	13,688,294,400	7,666,560,000	10,844,697,600	27,711,129,600
Height	RegulatingOutlets	ft	0	12	10	0	0	10	12	12
Interim Risk Reduction Measure		ac-ft	4,710	183,000	446,700	27,330	0	777,003	319,900	392,418
		ft	1,193	1,685	3,126	695	0	1,002	1,529	915
Interim Risk Reduction Measure - Brake Drum		ft	0	0	1,565	0	0	0	0	0
Invert	DiversionTunnel	ft	0	1,290	0	0	0	0	0	0
	Penstock	cfs	0	1,420	0	0	0	0	0	0
		ft	1,128	0	1,396	637	583	1,610	1,384	771
Invert-Inlet	RegulatingOutlets	ft	0	1,479	0	0	0	745	1,409	724

			BCL	CGR	DET	DEX	FOS	GPR	HCR	LOP
Invert-Inlet	RegulatingOutlets-	ft	0	0	1,260	0	0	0	0	0
	RegulatingOutlets-	ft	0	0	1,335	0	0	0	0	0
Maximum	Powerhouse	cfs	3,300	1,260	6,300	4,040	3,100	4,800	1,960	9,600
	Unit1	cfs	3,300	640	3,100	4,000	1,550	2,400	930	3,100
	Unit2	cfs	0	640	3,100	0	1,550	2,400	930	3,100
	Unit3	cfs	0	0	0	0	0	0	0	3,100
Maximum Evacuation Rate		cfs	17,000	6,500	17,000	15,000	18,000	13,000	8,000	15,000
Nameplate	Unit1	MW	41	29	114	32	22	88	33	88
	Unit2	MW	0	29	114	0	22	88	33	88
	Unit3	MW	0	0	0	0	0	0	0	88
Normal Evacuation Rate		cfs	10,000	5,000	10,000	12,000	15,000	10,000	6,000	12,000
Obvert	Penstock	cfs	0	0	0	0	0	0	0	799
		ft	1,156	2,913	2,826	681	597	817	1,396	790
Orifice of Stilling Well		ft	1,170	1,506	0	0	0	884	0	751
Pool-FloodControl		ac-ft	2,930	125,500	0	5,200	29,600	200,000	145,000	262,470
Pool-FloodControl_Max		ac-ft	7,020	200,000	466,987	29,700	60,700	430,000	356,000	472,880
Pool-FloodControl_Secondary		ac-ft	0	22,300	0	0	0	70,000	55,000	74,960
Pool-Operating		ac-ft	6,430	200,000	448,520	27,700	60,700	707,438	356,000	451,050
Pool-Power		ac-ft	0	8,700	0	0	0	0	0	0
Range-Maximum	RegulatingOutlets	ft	0	0	0	0	0	0	0	900
RegulatingOutlets		unit	0	2	4	0	0	2	2	4
Spillbays		unit	3	2	6	7	4	2	3	5
Spillway Crest		ac-ft	1,770	151,230	355,266	3,310	16,520	561,988	242,600	287,879
		ft	1,162	1,657	1,541	660	597	969	1,496	887
Spillway Used		n/a	1	0	1	1	1	1	0	1
Spillway-Top of Gate-Closed		ft	1,206	1,699	1,572	697	641	1,015	1,545	929
StationService		cfs	550	85	300	430	300	150	80	150
Streambed		ac-ft	0	0	0	0	0	0	0	0
		ft	1,040	1,274	1,129	634	520	693	1,244	688
Toe of Ramp	Bingham	ft	0	0	0	0	0	0	1,520	0
	BlackCanyon	ft	0	0	0	0	0	0	0	900

			BCL	CGR	DET	DEX	FOS	GPR	HCR	LOP
Toe of Ramp	CTBeach	ft	0	0	0	0	0	0	1,507	0
	CalkinsPark	ft	0	0	0	0	631	0	0	0
	CoveCreek	ft	0	0	1,541	0	0	0	0	0
	DexterPark	ft	0	0	0	684	0	0	0	0
	EchoPark	ft	0	1,635	0	0	0	0	0	0
	GedneyCreek	ft	0	0	0	0	619	0	0	0
	HamptonLanding	ft	0	0	0	0	0	0	0	911
	Hoover	ft	0	0	1,543	0	0	0	0	0
	KanesMarina	ft	0	0	1,546	0	0	0	0	0
	LowellPark	ft	0	0	0	684	0	0	0	0
	Meridian	ft	0	0	0	0	0	0	0	911
	Mongold	ft	0	0	1,450	0	0	0	0	0
	Packard	ft	0	0	0	0	0	0	1,441	0
	SignalPoint	ft	0	0	0	0	0	0	0	821
	SlideCreek	ft	0	1,635	0	0	0	0	0	0
	Southshore	ft	0	0	1,542	0	0	0	0	0
	StateParkD	ft	0	0	1,556	0	0	0	0	0
	StateParkG	ft	0	0	1,530	0	0	0	0	0
	Sunnyside	ft	0	0	0	0	613	0	0	0
	Thistle	ft	0	0	0	0	0	919	0	0
	Whitcomb	ft	0	0	0	0	0	970	0	0
Top of Conservation	Powerhouse	cfs	3,300	1,810	8,800	8,200	5,660	7,800	2,980	14,460
	Spillway	cfs	0	0	98,580	0	170,000	92,500	130,000	194,000
	Unit1	cfs	3,300	450	2,450	4,000	1,500	2,100	740	2,620
	Unit2	cfs	0	450	2,450	0	1,500	2,100	740	2,620
	Unit3	cfs	0	0	0	0	0	0	0	2,620
		ac-ft	0	189,000	428,754	0	55,900	834,202	350,000	438,179
		ft	0	1,690	1,563	0	637	1,010	1,541	926
Top of Dam		ac-ft	7,320	207,200	485,898	34,924	67,400	446,740	367,500	503,625
		ft	1,212	1,705	1,579	703	646	1,020	1,548	941
Top of Flood	Spillway	cfs	179,000	0	191,640	267,000	200,000	110,000	141,500	270,000

			BCL	CGR	DET	DEX	FOS	GPR	HCR	LOP
Top of Flood		ac-ft	0	200,000	448,520	0	60,800	871,136	355,000	451,049
		ft	0	1,699	1,569	0	641	1,015	1,543	929
Top of Max Flood		ac-ft	0	0	466,987	0	60,800	871,136	355,000	472,877
		ft	1,210	1,699	1,574	0	641	1,015	1,543	934
Top of Max Flood Control		ac-ft	0	200,000	0	0	0	0	0	0
Top of Multi-Purpose		ac-ft	0	189,000	428,754	0	55,900	409,800	350,000	438,179
		ft	0	1,690	1,563	0	637	1,010	1,541	926
Top of Operating	Spillbay	cfs	59,670	0	24,290	35,400	41,100	0	0	41,862
	Spillway	cfs	179,000	0	145,740	242,000	200,000	110,000	141,500	222,000
		ac-ft	6,430	200,000	466,987	27,330	60,800	871,136	355,000	472,877
		ft	1,206	1,699	1,574	697	641	1,015	1,543	934
Top of Power		ac-ft	0	52,200	148,267	27,330	40,000	325,528	155,400	113,619
		ft	0	1,532	1,450	695	0	922	1,448	825
Top of Secondary Flood Control		ac-ft	0	74,500	0	0	0	474,405	211,000	194,100
		ft	0	1,569	0	0	0	1,906	1,480	856
Turbines		unit	1	2	2	1	2	2	2	3
WCM-Minimum-PUB		cfs	0	0	0	0	0	50	0	0
Width	RegulatingOutlets	ft	0	6	6	0	0	6	6	7
allROs-Open100Pct-Top of Conservation		cfs	0	11,800	14,600	0	0	13,080	10,760	24,120
perRO-Open100Pct-Bottom of Conservation		cfs	0	2,900	4,110	0	0	5,280	2,880	4,075
perRO-Open100Pct-Top of Conservation		cfs	0	5,900	7,300	0	0	6,540	5,380	6,030
perRO-Open10Pct-Bottom of Conservation		cfs	0	340	520	0	0	426	300	525
perRO-Open10Pct-Top of Conservation		cfs	0	720	660	0	0	525	570	745
perRO-Open80Pct-Bottom of Conservation		cfs	0	2,640	3,165	0	0	3,600	2,415	3,240
perRO-Open80Pct-Top of Conservation		cfs	0	5,335	5,600	0	0	4,460	4,400	4,660
perTurbine-Bottom of Conservation		cfs	3,200	690	2,480	4,200	1,710	2,210	850	2,700
perTurbine-Top of Conservation		cfs	2,810	455	1,950	4,200	1,330	1,800	750	2,200

Willow_Creek

Non-Power

			WIL
Bottom of Conservation		ac-ft	2,400
		ft	2,047
Bottom of Flood Control		ac-ft	4,100
		ft	2,063
Bottom of Multi-Purpose		ac-ft	2,400
		ft	2,047
Drainage		ft2	2,676,326,400
Maximum Evacuation Rate		cfs	500
Normal Evacuation Rate		cfs	500
Spillway Crest		ac-ft	13,890
		ft	2,113
Streambed		ft	1,976
Top of Conservation		ac-ft	6,000
		ft	2,076
Top of Dam		ac-ft	17,300
		ft	2,130
Top of Flood		ac-ft	13,890
		ft	2,113
Top of Max Flood		ac-ft	17,100
		ft	2,129
Top of Multi-Purpose		ac-ft	6,000
		ft	2,076
Top of Operating		ac-ft	17,100
		ft	2,129