Table TDA-7. The Dalles Dam Spill Patterns for Juvenile Fish Passage at 40% of Total Project Outflow.

PROJECT OUTFLOW			SPILL			TDA 40% Spill Patterns Vertical Gate Opening (ft) per Spillbay [a, b]																							Total Open (ft)	Note
Total (kcfs)	Range (kcfs) Low	High	Total (kcfs)	% Range [c] Low	High	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
61.7	61.7	62.5	11.7	18.7%	19.0%							4	4																8	c, d
63.2	62.5	63.9	13.2	20.7%	21.1%							4.5	4.5																9	c, d
64.6	63.9	65.4	14.6	22.3%	22.8%							5	5																10	c, d
66.1	65.4	66.9	16.1	24.1%	24.6%							5.5	5.5																11	c, d
67.6	66.9	68.3	17.6	25.8%	26.3%							6	6																12	c, d
69.0	68.3	69.8	19.0	27.2%	27.8%							6.5	6.5																13	c, d
70.5	69.8	71.2	20.5	28.8%	29.4%							7	7																14	c, d
71.9	71.2	72.6	21.9	30.2%	30.8%							7.5	7.5																15	c, d
73.3	72.6	74.1	23.3	31.5%	32.1%							8	8																16	c, d
74.8	74.1	75.5	24.8	32.8%	33.5%							8.5	8.5																17	c, d
76.2	75.5	77.0	26.2	34.0%	34.7%							9	9																18	c, d
77.7	77.0	78.4	27.7	35.3%	36.0%							9.5	9.5																19	c, d
79.1	78.4	79.8	29.1	36.5%	37.1%							10	10																20	c, d
80.5	79.8	81.2	30.5	37.6%	38.2%							10.5	10.5																21	c, d
81.9	81.2	82.6	31.9	38.6%	39.3%							11	11																22	c, d
83.3	82.6	85.2	33.3	39.1%	40.3%							11.5	11.5																23	c, d
87.0	85.2	87.4	34.8	39.8%	40.9%							12	12																24	c
87.8	87.4	90.0	35.1	39.0%	40.2%			4	4	4	4	4	4																24	c
92.3	90.0	95.5	36.9	38.6%	41.0%			4.2	4.2	4.2	4.2	4.2	4.2																25.2	c, e
98.8	95.5	100.6	39.5	39.3%	41.4%			4.5	4.5	4.5	4.5	4.5	4.5																27	c, e
102.5	100.6	105.0	41.0	39.0%	40.7%		4	4	4	4	4	4	4																28	c
107.5	105.0	111.4	43.0	38.6%	41.0%		4.2	4.2	4.2	4.2	4.2	4.2	4.2																29.4	c, e
115.3	111.4	116.1	46.1	39.7%	41.4%		4.5	4.5	4.5	4.5	4.5	4.5	4.5																31.5	c, e
117.0	116.1	120.0	46.8	39.0%	40.3%	4	4	4	4	4	4	4	4																32	c
123.0	120.0	127.4	49.2	38.6%	41.0%	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2																33.6	c, e
131.8	127.4	134.8	52.7	39.1%	41.4%	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5																36	c, e
137.8	134.8	142.0	55.1	38.8%	40.9%	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7																37.6	c, e
146.3	142.0	149.3	58.5	39.2%	41.2%	5	5	5	5	5	5	5	5																40	c, e
152.3	149.3	156.6	60.9	38.9%	40.8%	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2																41.6	c, e
161.0	156.6	163.9	64.4	39.3%	41.1%	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5																44	c, e
166.8	163.9	171.1	66.7	39.0%	40.7%	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7																45.6	c
175.5	171.1	178.4	70.2	39.4%	41.0%	6	6	6	6	6	6	6	6																48	c
181.3	178.4	185.6	72.5	39.1%	40.6%	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2																49.6	c
190.0	185.6	193.0	76.0	39.4%	40.9%	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5																52	c
196.0	193.0	200.4	78.4	39.1%	40.6%	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7																53.6	c
204.8	200.4	207.6	81.9	39.4%	40.9%	7	7	7	7	7	7	7	7																56	c
210.5	207.6	214.8	84.2	39.2%	40.6%	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2																57.6	c
219.0	214.8	221.9	87.6	39.5%	40.8%	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5																60	c
224.8	221.9	229.0	89.9	39.3%	40.5%	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7																61.6	c
233.3	229.0	236.1	93.3	39.5%	40.7%	8	8	8	8	8	8	8	8																64	c
239.0	236.1	243.4	95.6	39.3%	40.5%	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2																65.6	c

PROJECT OUTFLOW			SPILL			TDA 40% Spill Patterns																							Total	
Total	Range (kcfs)		Total	% Range [c]		Vertical Gate Opening (ft) per Spillbay [a, b]																							Open	
(kcfs)	Low	High	(kcfs)	Low	High	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	(ft)	Note
247.8	243.4	250.6	99.1	39.5%	40.7%	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5																68	c
253.5	250.6	257.9	101.4	39.3%	40.5%	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7																69.6	c
262.3	257.9	265.1	104.9	39.6%	40.7%	9	9	9	9	9	9	9	9																72	c
268.0	265.1	272.4	107.2	39.4%	40.4%	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2																73.6	c
276.8	272.4	279.6	110.7	39.6%	40.6%	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5																76	c
282.5	279.6	286.6	113.0	39.4%	40.4%	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7																77.6	c
290.8	286.6	293.6	116.3	39.6%	40.6%	10	10	10	10	10	10	10	10																80	c
296.5	293.6	300.6	118.6	39.5%	40.4%	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2																81.6	c
304.8	300.6	307.6	121.9	39.6%	40.5%	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5																84	c
310.5	307.6	314.9	124.2	39.4%	40.4%	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7																85.6	c
319.3	314.9	322.0	127.7	39.7%	40.6%	11	11	11	11	11	11	11	11																88	c
324.8	322.0	329.1	129.9	39.5%	40.3%	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2																89.6	c
333.5	329.1	336.4	133.4	39.7%	40.5%	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5																92	c
339.3	336.4	343.5	135.7	39.5%	40.3%	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7																93.6	c
347.8	343.5	350.5	139.1	39.7%	40.5%	12	12	12	12	12	12	12	12																96	c
353.3	350.5	357.4	141.3	39.5%	40.3%	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2																97.6	c
361.5	357.4	364.3	144.6	39.7%	40.5%	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5																100	c
367.0	364.3	371.3	146.8	39.5%	40.3%	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7																101.6	c
375.5	371.3	378.4	150.2	39.7%	40.5%	13	13	13	13	13	13	13	13																104	c
381.3	378.4	385.4	152.5	39.6%	40.3%	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2																105.6	c
389.5	385.4	392.3	155.8	39.7%	40.4%	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5																108	c
395.0	392.3	399.1	158.0	39.6%	40.3%	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7																109.6	c
403.3	399.1	406.0	161.3	39.7%	40.4%	14	14	14	14	14	14	14	14																112	c, f
408.8	406.0	413.0	163.5	39.6%	40.3%	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2																113.6	c
417.3	413.0	420.0	166.9	39.7%	40.4%	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5																116	c
422.8	420.0	433.9	169.1	39.0%	40.3%	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7																117.6	c
445.0			175.0	39.3%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				4												121.6	
450.8			180.8	40.1%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				4		4										125.6	
456.7			186.7	40.9%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				4		4	4									129.6	
462.5			192.5	41.6%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				4		4	4		4							133.6	
468.4			198.4	42.4%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				4		4	4		4			4				137.6	
474.2			204.2	43.1%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				4		4	4		4			4	4			141.6	
480.1			210.1	43.8%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				4		4	4		4			4	4	4		145.6	
485.9			215.9	44.4%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				8		4	4		4			4	4	4		149.6	
491.7			221.7	45.1%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				8		8	4		4			4	4	4		153.6	
497.5			227.5	45.7%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				8		8	8		4			4	4	4		157.6	
503.3			233.3	46.4%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				8		8	8		8			4	4	4		161.6	
509.1			239.1	47.0%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				8		8	8		8			8	4	4		165.6	
515.0			245.0	47.6%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				8		8	8		8			8	8	4		169.6	
520.8			250.8	48.2%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				8		8	8		8			8	8	8		173.6	
526.5			256.5	48.7%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				12		8	8		8			8	8	8		177.6	
532.2			262.2	49.3%		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				12		12	8		8			8	8	8		181.6	

PROJECT OUTFLOW			SPILL			TDA 40% Spill Patterns																							Total	
Total	Range (kcfs)		Total	% Range [c]		Vertical Gate Opening (ft) per Spillbay [a, b]																							Open	
(kcfs)	Low	High	(kcfs)	Low	High	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	(ft)	Note
537.9			**267.9**	**49.8%**		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				12		12	12		8			8	8	8		**185.6**	
543.7			**273.7**	**50.3%**		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				12		12	12		12			8	8	8		**189.6**	
549.4			**279.4**	**50.9%**		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				12		12	12		12			12	8	8		**193.6**	
555.1			**285.1**	**51.4%**		14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				12		12	12		12			12	12	8		**197.6**	
563.3			**293.3**	**52.1%**		14.7	14.7	15	15	15	15	15	15				12		12	12		12			12	12	12		**203.4**	
568.2			**298.2**	**52.5%**		15	15	15.5	15.5	15.5	15.5	15.5	15.5				12		12	12		12			12	12	12		**207**	
572.5			**302.5**	**52.8%**		15	15	16	16	16	16	16	16				12		12	12		12			12	12	12		**210**	
576.7			**306.7**	**53.2%**		15	15	16.5	16.5	16.5	16.5	16.5	16.5				12		12	12		12			12	12	12		**213**	
580.6			**310.6**	**53.5%**		15	15	17	17	17	17	17	17				12		12	12		12			12	12	12		**216**	
590.5			**320.5**	**54.3%**		15	16	18	18	18	18	18	18				12		12	12		12			12	12	12		**223**	g
595.6			**325.6**	**54.7%**		15	16	18	18	18	18	18	18				16		12	12		12			12	12	12		**227**	
601.1			**331.1**	**55.1%**		15	16	18	18	18	18	18	18				16		16	12		12			12	12	12		**231**	
606.6			**336.6**	**55.5%**		15	16	18	18	18	18	18	18				16		16	16		12			12	12	12		**235**	
612.1			**342.1**	**55.9%**		15	16	18	18	18	18	18	18				16		16	16		16			12	12	12		**239**	
617.6			**347.6**	**56.3%**		15	16	18	18	18	18	18	18				16		16	16		16			16	12	12		**243**	
623.1			**353.1**	**56.7%**		15	16	18	18	18	18	18	18				16		16	16		16			16	16	12		**247**	
625.8			**355.8**	**56.9%**		15	16	18	18	18	18	18	18				18		16	16		16			16	16	12		**249**	
628.5			**358.5**	**57.0%**		15	16	18	18	18	18	18	18				18		18	16		16			16	16	12		**251**	
631.2			**361.2**	**57.2%**		15	16	18	18	18	18	18	18				18		18	18		16			16	16	12		**253**	
633.9			**363.9**	**57.4%**		15	16	18	18	18	18	18	18				18		18	18		18			16	16	12		**255**	
636.6			**366.6**	**57.6%**		15	16	18	18	18	18	18	18				18		18	18		18			18	16	12		**257**	
639.2			**369.2**	**57.8%**		15	16	18	18	18	18	18	18				20		18	18		18			18	16	12		**259**	
641.9			**371.9**	**57.9%**		15	16	18	18	18	18	18	18				20		20	18		18			18	16	12		**261**	
644.5			**374.5**	**58.1%**		15	16	18	18	18	18	18	18				20		20	20		18			18	16	12		**263**	
647.2			**377.2**	**58.3%**		15	16	18	18	18	18	18	18				20		20	20		20			18	16	12		**265**	
649.9			**379.9**	**58.5%**		15	16	18	18	18	18	18	18				20		20	20		20			20	16	12		**267**	
656.4			**386.4**	**58.9%**		15	16	18	18	18	18	18	18				21		21	21		21			21	16	12		**272**	
664.4			**394.4**	**59.4%**		15	16	19	19	19	19	19	19				21		21	21		21			21	16	12		**278**	
672.4			**402.4**	**59.8%**		15	16	20	20	20	20	20	20				21		21	21		21			21	16	12		**284**	
680.3			**410.3**	**60.3%**		15	16	21	21	21	21	21	21				21		21	21		21			21	16	12		**290**	
686.2			**416.2**	**60.7%**		15	16	21	21	21	21	21	21		4		21		21	21		21			21	16	12		**294**	
692.0			**422.0**	**61.0%**		15	16	21	21	21	21	21	21		8		21		21	21		21			21	16	12		**298**	
697.7			**427.7**	**61.3%**		15	16	21	21	21	21	21	21		12		21		21	21		21			21	16	12		**302**	
703.2			**433.2**	**61.6%**		15	16	21	21	21	21	21	21		16		21		21	21		21			21	16	12		**306**	
708.6			**438.6**	**61.9%**		15	16	21	21	21	21	21	21		20		21		21	21		21			21	16	12		**310**	
715.8			**445.8**	**62.3%**		15	16	21	21	21	21	21	21		21	4	21		21	21		21			21	16	12		**315**	
721.6			**451.6**	**62.6%**		15	16	21	21	21	21	21	21		21	8	21		21	21		21			21	16	12		**319**	
727.3			**457.3**	**62.9%**		15	16	21	21	21	21	21	21		21	12	21		21	21		21			21	16	12		**323**	
732.8			**462.8**	**63.2%**		15	16	21	21	21	21	21	21		21	16	21		21	21		21			21	16	12		**327**	
738.1			**468.1**	**63.4%**		15	16	21	21	21	21	21	21		21	20	21		21	21		21			21	16	12		**331**	
745.4			**475.4**	**63.8%**		15	16	21	21	21	21	21	21		21	21	21	4	21	21		21			21	16	12		**336**	
751.2			**481.2**	**64.1%**		15	16	21	21	21	21	21	21		21	21	21	8	21	21		21			21	16	12		**340**	

PROJECT OUTFLOW			SPILL			TDA 40% Spill Patterns Vertical Gate Opening (ft) per Spillbay[a, b]																							Total Open (ft)	Note
Total (kcfs)	Range (kcfs) Low	High	Total (kcfs)	% Range[c] Low	High	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
756.9			486.9	64.3%		15	16	21	21	21	21	21	21		21	21	21	12	21	21		21			21	16	12		344	
762.4			492.4	64.6%		15	16	21	21	21	21	21	21		21	21	21	16	21	21		21			21	16	12		348	
767.7			497.7	64.8%		15	16	21	21	21	21	21	21		21	21	21	20	21	21		21			21	16	12		352	
775.0			505.0	65.2%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	4	21			21	16	12		357	
780.8			510.8	65.4%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	8	21			21	16	12		361	
786.5			516.5	65.7%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	12	21			21	16	12		365	
792.0			522.0	65.9%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	16	21			21	16	12		369	
797.3			527.3	66.1%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	20	21			21	16	12		373	
804.6			534.6	66.4%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	4		21	16	12		378	
810.4			540.4	66.7%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	8		21	16	12		382	
816.0			546.0	66.9%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	12		21	16	12		386	
821.6			551.6	67.1%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	16		21	16	12		390	
826.9			556.9	67.3%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	20		21	16	12		394	
834.2			564.2	67.6%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	4	21	16	12		399	
840.0			570.0	67.9%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	8	21	16	12		403	
845.6			575.6	68.1%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	12	21	16	12		407	
851.1			581.1	68.3%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	16	21	16	12		411	
856.5			586.5	68.5%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	20	21	16	12		415	
863.8			593.8	68.7%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	21	21	16	12	4	420	
869.6			599.6	69.0%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	21	21	16	12	8	424	
875.2			605.2	69.1%		15	16	21	21	21	21	21	21		21	21	21	21	21	21	21	21	21	21	21	16	12	12	428	

a. Spill calculated as a function of total gate opening (ft) at forebay elevation 158.5 feet (revised July 2012).

b. Highlighted spillbays operationally restricted because of structural or wire rope issues, and will be used only if needed for dam safety.

c. Uniform spill patterns are critical to increasing juvenile fish survival through the tailrace. Uniform pattern fixed spill rates will result in hourly spill % within ranges in table.

d. TDA minimum generation requirement = 50 kcfs. Therefore, 40% spill is not achievable at total river flow <84 kcfs (i.e., minimum generation operation).

e. At certain flow ranges, spill could exceed ±1% of target spill of 40%. At total river flow 92,250–161,000 cfs, spill may range from 38.6–41.4% (up to ±1.4% of the 40% rate).

f. Minimum gate opening is 4 ft. At forebay elevation 160 ft, maximum gate opening through bays 1-8 is 14 ft, thus higher bays will be utilized prior to opening any of bays 1-8 more than 14.0 ft. At lower forebay elevations, gate openings can be increased up to 14.7 feet before utilizing higher bays.

g. Maximum gate opening for the TDA tainter gate where the gate controls is 21 feet at a forebay of 155 and 24 feet at a forebay of 160 feet (EM 1110-2-1603). Restricting gate opening to 18 feet north of the wall and 21 feet south of the wall before we engage restricted bays.

h. If gate openings greater than shown in table are needed, to the extent feasible, incrementally increase gate openings. If all available spillbays are fully open and more flow is needed to limit pool surcharge, use restricted spillbays in following priority order: 10, 11, 13, 16, 18, 19, and 23. Fully open each bay as needed before moving to next. Gate 9 must be open once the forebay reaches 161 feet to prevent overtopping of the gate.

NWP POC - **Laurie Ebner**

Changes for 2017 FPP:

None

		1	2	3	4	5	6	7	8	9
-0.2	11.9	0	0	0	0	0	0	5.953704	5.953704	0
-0.2	13.4	0	0	0	0	0	0	6.6874028	6.6874028	0
-0.2	14.8	0	0	0	0	0	0	7.418765	7.418765	0
-0.2	16.3	0	0	0	0	0	0	8.1477908	8.1477908	0
-0.1	17.7	0	0	0	0	0	0	8.87448	8.87448	0
-0.2	19.2	0	0	0	0	0	0	9.5988328	9.5988328	0
-0.1	20.6	0	0	0	0	0	0	10.320849	10.320849	0
-0.2	22.1	0	0	0	0	0	0	11.040529	11.040529	0
-0.2	23.5	0	0	0	0	0	0	11.757872	11.757872	0
-0.1	24.9	0	0	0	0	0	0	12.472879	12.472879	0
-0.2	26.4	0	0	0	0	0	0	13.185549	13.185549	0
-0.1	27.8	0	0	0	0	0	0	13.895883	13.895883	0
-0.1	29.2	0	0	0	0	0	0	14.60388	14.60388	0
-0.1	30.6	0	0	0	0	0	0	15.309541	15.309541	0
-0.1	32.0	0	0	0	0	0	0	16.012865	16.012865	0
-0.1	33.4	0	0	0	0	0	0	16.713853	16.713853	0
0.0	34.8	0	0	0	0	0	0	17.412504	17.412504	0
-0.6	35.7	0	0	5.953704	5.953704	5.953704	5.953704	5.953704	5.953704	0
-0.6	37.5	0	0	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	0
-0.6	40.1	0	0	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	0
-0.7	41.7	0	5.953704	5.953704	5.953704	5.953704	5.953704	5.953704	5.953704	0
-0.7	43.7	0	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	0
-0.7	46.8	0	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	0
-0.8	47.6	5.953704	5.953704	5.953704	5.953704	5.953704	5.953704	5.953704	5.953704	0
-0.8	50.0	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	6.2474639	0
-0.8	53.5	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	6.6874028	0
-0.7	55.8	6.980228	6.980228	6.980228	6.980228	6.980228	6.980228	6.980228	6.980228	0
-0.9	59.4	7.418765	7.418765	7.418765	7.418765	7.418765	7.418765	7.418765	7.418765	0
-0.8	61.7	7.7106557	7.7106557	7.7106557	7.7106557	7.7106557	7.7106557	7.7106557	7.7106557	0
-0.8	65.2	8.1477908	8.1477908	8.1477908	8.1477908	8.1477908	8.1477908	8.1477908	8.1477908	0
-0.8	67.5	8.4387468	8.4387468	8.4387468	8.4387468	8.4387468	8.4387468	8.4387468	8.4387468	0
-0.8	71.0	8.87448	8.87448	8.87448	8.87448	8.87448	8.87448	8.87448	8.87448	0
-0.8	73.3	9.1645015	9.1645015	9.1645015	9.1645015	9.1645015	9.1645015	9.1645015	9.1645015	0
-0.8	76.8	9.5988328	9.5988328	9.5988328	9.5988328	9.5988328	9.5988328	9.5988328	9.5988328	0
-0.7	79.1	9.8879196	9.8879196	9.8879196	9.8879196	9.8879196	9.8879196	9.8879196	9.8879196	0
-0.7	82.6	10.320849	10.320849	10.320849	10.320849	10.320849	10.320849	10.320849	10.320849	0
-0.7	84.9	10.609001	10.609001	10.609001	10.609001	10.609001	10.609001	10.609001	10.609001	0
-0.7	88.3	11.040529	11.040529	11.040529	11.040529	11.040529	11.040529	11.040529	11.040529	0
-0.7	90.6	11.327746	11.327746	11.327746	11.327746	11.327746	11.327746	11.327746	11.327746	0
-0.8	94.1	11.757872	11.757872	11.757872	11.757872	11.757872	11.757872	11.757872	11.757872	0
-0.8	96.4	12.044155	12.044155	12.044155	12.044155	12.044155	12.044155	12.044155	12.044155	0

None

		1	2	3	4	5	6	7	8	9
-0.7	99.8	12.472879	12.472879	12.472879	12.472879	12.472879	12.472879	12.472879	12.472879	0
-0.7	102.1	12.758227	12.758227	12.758227	12.758227	12.758227	12.758227	12.758227	12.758227	0
-0.6	105.5	13.185549	13.185549	13.185549	13.185549	13.185549	13.185549	13.185549	13.185549	0
-0.6	107.8	13.469963	13.469963	13.469963	13.469963	13.469963	13.469963	13.469963	13.469963	0
-0.5	111.2	13.895883	13.895883	13.895883	13.895883	13.895883	13.895883	13.895883	13.895883	0
-0.4	113.4	14.179362	14.179362	14.179362	14.179362	14.179362	14.179362	14.179362	14.179362	0
-0.5	116.8	14.60388	14.60388	14.60388	14.60388	14.60388	14.60388	14.60388	14.60388	0
-0.5	119.1	14.886425	14.886425	14.886425	14.886425	14.886425	14.886425	14.886425	14.886425	0
-0.6	122.5	15.309541	15.309541	15.309541	15.309541	15.309541	15.309541	15.309541	15.309541	0
-0.5	124.7	15.591151	15.591151	15.591151	15.591151	15.591151	15.591151	15.591151	15.591151	0
-0.4	128.1	16.012865	16.012865	16.012865	16.012865	16.012865	16.012865	16.012865	16.012865	0
-0.4	130.3	16.29354	16.29354	16.29354	16.29354	16.29354	16.29354	16.29354	16.29354	0
-0.3	133.7	16.713853	16.713853	16.713853	16.713853	16.713853	16.713853	16.713853	16.713853	0
-0.2	135.9	16.993594	16.993594	16.993594	16.993594	16.993594	16.993594	16.993594	16.993594	0
-0.2	139.3	17.412504	17.412504	17.412504	17.412504	17.412504	17.412504	17.412504	17.412504	0
-0.2	141.5	17.69131	17.69131	17.69131	17.69131	17.69131	17.69131	17.69131	17.69131	0
-0.3	144.9	18.108819	18.108819	18.108819	18.108819	18.108819	18.108819	18.108819	18.108819	0
-0.3	147.1	18.38669	18.38669	18.38669	18.38669	18.38669	18.38669	18.38669	18.38669	0
-0.2	150.4	18.802797	18.802797	18.802797	18.802797	18.802797	18.802797	18.802797	18.802797	0
-0.1	152.6	19.079734	19.079734	19.079734	19.079734	19.079734	19.079734	19.079734	19.079734	0
-0.2	156.0	19.494439	19.494439	19.494439	19.494439	19.494439	19.494439	19.494439	19.494439	0
-0.2	158.2	19.770441	19.770441	19.770441	19.770441	19.770441	19.770441	19.770441	19.770441	0
-0.2	161.5	20.183744	20.183744	20.183744	20.183744	20.183744	20.183744	20.183744	20.183744	0
-0.2	163.7	20.458812	20.458812	20.458812	20.458812	20.458812	20.458812	20.458812	20.458812	0
-0.1	167.0	20.870713	20.870713	20.870713	20.870713	20.870713	20.870713	20.870713	20.870713	0
-0.1	169.2	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.1	175.1	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.3	181.1	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.3	187.0	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.5	193.0	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.5	198.9	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.7	204.9	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.7	210.8	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.7	216.6	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.7	222.4	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.7	228.2	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.8	234.1	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.8	239.9	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.7	245.7	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.7	251.5	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.6	257.1	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
-0.6	262.8	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0

None

			1	2	3	4	5	6	7	8	9
	-0.5	268.4	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
	-0.4	274.1	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
	-0.3	279.7	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
	-0.3	285.4	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	21.144846	0
	-0.2	293.5	21.144846	21.144846	21.555345	21.555345	21.555345	21.555345	21.555345	21.555345	0
	-0.2	298.4	21.555345	21.555345	22.237641	22.237641	22.237641	22.237641	22.237641	22.237641	0
	0.0	302.5	21.555345	21.555345	22.9176	22.9176	22.9176	22.9176	22.9176	22.9176	0
	0.1	306.6	21.555345	21.555345	23.595223	23.595223	23.595223	23.595223	23.595223	23.595223	0
	0.0	310.6	21.555345	21.555345	24.270509	24.270509	24.270509	24.270509	24.270509	24.270509	0
Changes made from this point down.	0.5	320.0	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	325.6	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	331.1	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	336.6	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	342.1	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	347.6	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	353.1	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	355.8	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	358.5	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	361.2	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	363.9	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	366.6	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	369.2	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	371.9	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	374.5	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	377.2	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	379.9	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	386.4	21.555345	22.9176	25.614072	25.614072	25.614072	25.614072	25.614072	25.614072	0
	0.0	394.4	21.555345	22.9176	26.948289	26.948289	26.948289	26.948289	26.948289	26.948289	0
	0.0	402.4	21.555345	22.9176	28.27316	28.27316	28.27316	28.27316	28.27316	28.27316	0
	0.0	410.3	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	416.2	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	422.0	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	427.7	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	433.2	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	438.6	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	445.8	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	451.6	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	457.3	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	462.8	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	468.1	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	475.4	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
	0.0	481.2	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0

None

		1	2	3	4	5	6	7	8	9
0.0	486.9	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	492.4	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	497.7	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	505.0	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	510.8	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	516.5	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	522.0	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	527.3	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	534.6	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	540.4	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	546.0	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	551.6	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	556.9	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	564.2	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	570.0	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	575.6	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	581.1	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	586.5	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	593.8	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	599.6	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0
0.0	605.2	21.555345	22.9176	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	0

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0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	5.953704	0	0	0	0	0	0	0	0	0	0	0
0	0	5.953704	0	5.953704	0	0	0	0	0	0	0	0	0
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0	0	5.953704	0	5.953704	5.953704	0	5.953704	0	0	5.953704	5.953704	0	0
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0	0	11.757872	0	5.953704	5.953704	0	5.953704	0	0	5.953704	5.953704	5.953704	0
0	0	11.757872	0	11.757872	5.953704	0	5.953704	0	0	5.953704	5.953704	5.953704	0
0	0	11.757872	0	11.757872	11.757872	0	5.953704	0	0	5.953704	5.953704	5.953704	0
0	0	11.757872	0	11.757872	11.757872	0	11.757872	0	0	5.953704	5.953704	5.953704	0
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0	0	17.412504	0	17.412504	17.412504	0	17.412504	0	0	11.757872	11.757872	11.757872	0
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0	0	22.9176	0	22.9176	22.9176	0	22.9176	0	0	17.412504	17.412504	17.412504	0
0	0	22.9176	0	22.9176	22.9176	0	22.9176	0	0	22.9176	17.412504	17.412504	0
0	0	22.9176	0	22.9176	22.9176	0	22.9176	0	0	22.9176	22.9176	17.412504	0
0	0	25.614072	0	22.9176	22.9176	0	22.9176	0	0	22.9176	22.9176	17.412504	0
0	0	25.614072	0	25.614072	22.9176	0	22.9176	0	0	22.9176	22.9176	17.412504	0
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0	0	28.27316	0	25.614072	25.614072	0	25.614072	0	0	25.614072	22.9176	17.412504	0
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0	0	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
5.953704	0	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
11.757872	0	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
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22.9176	0	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
28.27316	0	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	5.953704	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	11.757872	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	17.412504	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	22.9176	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	28.27316	29.588685	0	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	5.953704	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	11.757872	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0

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29.588685	29.588685	29.588685	17.412504	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	22.9176	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	28.27316	29.588685	29.588685	0	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	5.953704	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	11.757872	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	17.412504	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	22.9176	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	28.27316	29.588685	0	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	5.953704	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	11.757872	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	17.412504	0	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	22.9176	0	29.588685	22.9176	17.412504	0
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29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	5.953704	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	11.757872	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	17.412504	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	22.9176	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	28.27316	29.588685	22.9176	17.412504	0
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	22.9176	17.412504	5.953704
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	22.9176	17.412504	11.757872
29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	29.588685	22.9176	17.412504	17.412504