

**Exh. SS-3
Docket TP-190976
Witness: Scott Sevall**

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND PILOTS,

Respondent.

DOCKET TP-190976

**EXHIBIT TO
TESTIMONY OF**

Scott Sevall

**STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION**

Staff Proposed Tariff Rates

May 27, 2020

**Puget Sound Pilots
Staff Hourly Rate Calculation
Schedule 3.3**

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Docket TP-190976
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Line No.	Description	(a)	(b)	(c)
1			Source:	Note:
2				
3	Hours of Pilotage	38,488	(Sch 3.6)	This is Pilotage and Harbor Shifts
4	Hours of Delay	1,381	(Sch 3.6)	
5	Total Hours	<u>39,869</u>	L1 + L2	
6				
7	Change in Vessel Traffic	-0.32%	(Sch. 2.4)	
8	Total Adjusted Hours	<u>39,741</u>	L3 * (1 + L5)	
9				
10	Total Distributable Net Income	\$ 21,700,741	(Sch 2.1)	
11	Hourly Rate	<u>\$ 546</u>	E15 / E13	

**Puget Sound Pilots
Staff Transportation Fee Calculation
Schedule 3.4**

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Line No.	Description	(a)	(b)
1			
2			Source:
3			
4	Transportation Expense from Staff ProForma	<u>\$ 1,229,599</u>	(Sch. 1.1)
5			
6	Number of Assignments	7,033	(Sch. 3.6)
7	Number of times second Pilot is Assigned	442	(Sch. 3.6)
8	Number of Cancellations	<u>141</u>	(Sch. 3.6)
9	Total number of assignments	<u><u>7,334</u></u>	L6 + L7 +L8
10			
11	Change in Vessel Traffic	-0.32%	(Sch. 2.4)
12	Adjusted number of assignments	<u>7,310</u>	L9 * (1 + L11)
13	Staff Proposed Rate	<u><u>\$ 168.20</u></u>	L4 / L12

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77	0.295029254	178646	0.558943628	178646
78	0.107802234	178647	0.986484511	178647
79	0.643593631	178648	0.485848320	178648
80	0.060997696	178649	0.745941126	178649
81	0.669474603	178650	0.547740206	178650
82	0.421902177	178652	0.435997064	178652
83	0.179317157	178653	0.647043532	178653
84	0.874525117	178654	0.060593389	178654
85	0.129185717	178651	0.074871654	178651
86	0.008654541	178655	0.577456921	178655
87	0.12128636	178656	0.906353832	178656
88	0.886661418	178657	0.511935496	178657
89	0.865601478	178658	0.264518952	178658
90	0.984294384	178659	0.604986065	178659
91	0.769021598	178660	0.205773442	178660
92	0.906892029	178661	0.347099539	178661
93	0.976839926	178662	0.544674681	178662
94	0.436428471	178663	0.591984041	178663
95	0.211514654	178664	0.830524578	178664
96	0.231234138	178665	0.555167945	178665
97	0.786748696	178666	0.856750518	178666
98	0.555908707	178667	0.455281356	178667
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306	0.037061651	178965	0.521425631	178965
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979	0.597557042	179624	0.621932138	179624	0.136728646	183940
980	0.895315481	179627	0.463627129	179627	0.136799859	182992
981	0.292327478	179628	0.229302730	179628	0.136950370	180139
982	0.051071101	179629	0.570468036	179629	0.136981319	181025
983	0.567664576	179630	0.643613848	179630	0.137234796	184681
984	0.338480861	179631	0.848355310	179631	0.137255090	179191
985	0.121409078	179632	0.338007595	179632	0.137308332	182986
986	0.287351304	179633	0.485984745	179633	0.137357006	180279
987	0.324261381	179634	0.419885070	179634	0.137406686	182372
988	0.998875182	179635	0.164865943	179635	0.137418389	185477

989	0.687118952	179636	0.123636111	179636	0.137454627	185900
990	0.862616699	179637	0.436517221	179637	0.137685667	179476
991	0.430660726	179638	0.455540012	179638	0.137743426	185823
992	0.880748459	179639	0.078184951	179639	0.138142109	180237
993	0.114057825	179640	0.951279369	179640	0.138177802	179758
994	0.79559762	179641	0.994750851	179641	0.138365853	184917
995	0.746428443	179642	0.456769229	179642	0.138450382	181509
996	0.903183388	179644	0.386338006	179644	0.138590216	179065
997	0.910742997	179643	0.144711447	179643	0.138748810	185017
998	0.235768132	179645	0.171745755	179645	0.138976126	180859
999	0.991519926	179646	0.582103593	179646	0.138982154	178834
1000	0.96317423	179647	0.637153944	179647	0.139116323	180538
1001	0.944526434	179648	0.591150575	179648	0.139156110	184137
1002	0.651825904	179649	0.104941813	179649	0.139377237	185829
1003	0.895873028	179650	0.405405978	179650	0.139627436	180984
1004	0.672069929	179651	0.288578607	179651	0.139685016	179239
1005	0.00143093	179652	0.435234349	179652	0.139771433	185828
1006	0.885634462	179654	0.602173864	179654	0.139819784	185889
1007	0.218340705	179656	0.049916294	179656	0.140185045	183191
1008	0.637201688	179653	0.034025147	179653	0.140379488	181067
1009	0.066551119	179655	0.901736038	179655	0.140379533	179472
1010	0.894268759	179657	0.186552729	179657	0.140391324	181048
1011	0.508223164	179658	0.810476927	179658	0.140393815	181225
1012	0.147147039	179659	0.865866153	179659	0.140515513	183832
1013	0.215721232	179660	0.879587312	179660	0.140548408	179470
1014	0.804230542	179661	0.943198550	179661	0.140723311	185862
1015	0.115795162	179662	0.974580405	179662	0.140763593	184488
1016	0.891581533	179663	0.552262725	179663	0.140795039	180333
1017	0.850579779	179664	0.360240505	179664	0.141121222	183498
1018	0.483800591	179665	0.520681597	179665	0.141226779	180731
1019	0.443478716	179666	0.354838925	179666	0.141284887	178904
1020	0.319540038	179667	0.085500765	179667	0.142024977	179940
1021	0.646344994	179668	0.660938123	179668	0.142026712	182669
1022	0.158483788	179669	0.686488847	179669	0.142398741	179581
1023	0.529758637	179670	0.419317925	179670	0.142405856	181782
1024	0.812810178	179686	0.068925504	179686	0.142428916	179412
1025	0.050188995	179687	0.291339208	179687	0.142430245	183430
1026	0.318819955	179688	0.920388530	179688	0.142692665	183005
1027	0.714964826	179689	0.517025245	179689	0.142832333	180755
1028	0.693484319	179690	0.677322214	179690	0.142840024	184319
1029	0.594449591	179691	0.532173516	179691	0.142864736	185802
1030	0.22856906	179692	0.815939266	179692	0.142934377	179769
1031	0.669510628	179693	0.510213605	179693	0.143219118	183299
1032	0.104238235	179694	0.340476721	179694	0.143254098	182927
1033	0.570698216	179695	0.067211848	179695	0.143301261	179001
1034	0.577181102	179696	0.791298643	179696	0.143410564	179177
1035	0.071237008	179697	0.985327428	179697	0.143513916	184716
1036	0.148065374	179698	0.264728304	179698	0.143535263	181423
1037	0.794144029	179700	0.270782130	179700	0.143586043	180997
1038	0.784510631	179749	0.632980326	179749	0.143855437	184036
1039	0.766284686	179751	0.051337711	179751	0.144114577	185261
1040	0.971022783	179699	0.540556425	179699	0.144180927	184067
1041	0.795285995	179750	0.983415214	179750	0.144711434	183809
1042	0.632113145	179701	0.128458530	179701	0.144711447	179643
1043	0.92311741	179702	0.485517339	179702	0.144759238	185164
1044	0.085447809	179704	0.203745385	179704	0.144968813	180353
1045	0.9725343	179705	0.006199257	179705	0.145124838	179866
1046	0.963168926	179708	0.736249991	179708	0.145197759	184724
1047	0.237113746	179752	0.545656049	179752	0.145226102	178785
1048	0.655269699	179753	0.957877821	179753	0.145227114	183352
1049	0.492322665	179754	0.921657351	179754	0.145230064	185800
1050	0.60408361	179755	0.929160828	179755	0.145367225	183549
1051	0.385132483	179756	0.820305410	179756	0.145398786	179188
1052	0.433286584	179757	0.974324091	179757	0.145517900	182052
1053	0.230442048	179758	0.138177802	179758	0.145672441	185855
1054	0.189732214	179759	0.659703734	179759	0.145738995	182710
1055	0.150746312	179760	0.868116292	179760	0.145847371	180444
1056	0.020199636	179761	0.996264135	179761	0.145992984	182672
1057	0.89054987	179762	0.924528049	179762	0.146100133	183445
1058	0.404874159	179763	0.119546064	179763	0.146117100	180274
1059	0.042077937	179764	0.023778649	179764	0.146541024	180506
1060	0.62198759	179765	0.507379294	179765	0.147049192	179797
1061	0.172480211	179766	0.941228401	179766	0.147100116	178971
1062	0.333573962	179703	0.502490937	179703	0.147284779	179088
1063	0.257569284	179706	0.021483612	179706	0.147891694	180778
1064	0.863965379	179707	0.703820198	179707	0.148466282	179112
1065	0.473643906	179709	0.702683545	179709	0.148523232	178765
1066	0.306179501	179710	0.558653667	179710	0.148595560	178976
1067	0.488184736	179711	0.297834728	179711	0.148613281	184382
1068	0.862132763	179712	0.135937030	179712	0.148691967	184091
1069	0.972099575	179713	0.269017662	179713	0.148823411	183441
1070	0.444257708	179714	0.604766867	179714	0.149022594	182843
1071	0.354238282	179715	0.651408056	179715	0.149022893	185792

1072	0.527193872	179716	0.217739651	179716	0.149218750	183892
1073	0.846200852	179717	0.429314140	179717	0.149313936	182409
1074	0.101490164	179718	0.111763327	179718	0.149342667	181751
1075	0.565896512	179719	0.380936225	179719	0.149370044	182611
1076	0.188613446	179722	0.899978751	179722	0.149453651	185002
1077	0.092858149	179723	0.870087440	179723	0.149455509	183938
1078	0.168696379	179720	0.197483907	179720	0.149488863	180618
1079	0.01025748	179721	0.853483644	179721	0.149857870	180432
1080	0.83245483	179724	0.151987031	179724	0.149895853	185807
1081	0.87053901	179725	0.896014241	179725	0.150070666	179413
1082	0.015951966	179726	0.314928769	179726	0.150091667	183453
1083	0.911107892	179727	0.044022372	179727	0.150105294	185380
1084	0.763157688	179728	0.248411187	179728	0.150550599	180063
1085	0.821754671	179729	0.599499435	179729	0.150872936	184509
1086	0.570940783	179730	0.105187562	179730	0.151013494	181330
1087	0.524566459	179731	0.911716673	179731	0.151148954	179176
1088	0.021731064	179732	0.946226891	179732	0.151177376	181129
1089	0.396233935	179733	0.800971877	179733	0.151635912	184743
1090	0.80371666	179734	0.482145579	179734	0.151662451	183221
1091	0.20027321	179737	0.155930141	179737	0.151676404	181354
1092	0.439309992	179735	0.449377634	179735	0.151703779	183896
1093	0.674262864	179736	0.105502145	179736	0.151905988	182091
1094	0.667267197	179738	0.233073080	179738	0.151912297	183119
1095	0.790433827	179739	0.914056488	179739	0.151987031	179724
1096	0.493604923	179740	0.099949586	179740	0.152150281	185517
1097	0.126225299	179741	0.586419498	179741	0.152293047	181288
1098	0.958699372	179742	0.050247030	179742	0.152457661	182064
1099	0.49309764	179743	0.880011223	179743	0.152875656	182280
1100	0.285887771	179744	0.516672259	179744	0.152938078	181459
1101	0.360874084	179745	0.782102367	179745	0.152993630	180019
1102	0.986421854	179746	0.320884162	179746	0.153126040	181315
1103	0.109564631	179747	0.033041720	179747	0.153241039	179879
1104	0.217423206	179748	0.136624599	179748	0.153958815	181888
1105	0.918604167	179767	0.763587740	179767	0.153980486	182266
1106	0.072566815	179769	0.142934377	179769	0.154010568	183869
1107	0.620832428	179771	0.473695935	179771	0.154319557	182382
1108	0.266950281	179772	0.252656604	179772	0.154469138	184200
1109	0.810725405	179768	0.692849798	179768	0.154564525	183309
1110	0.359063031	179770	0.938483208	179770	0.154630358	181515
1111	0.467536679	179773	0.715568150	179773	0.155058830	185205
1112	0.655921444	179774	0.948855319	179774	0.155164111	178786
1113	0.591587279	179775	0.199435780	179775	0.155344134	183342
1114	0.761857883	179776	0.553095519	179776	0.155347548	182692
1115	0.715402817	179777	0.937357947	179777	0.155710740	181896
1116	0.425523504	179778	0.094892169	179778	0.155811919	180224
1117	0.049540539	179779	0.865779819	179779	0.155841242	182408
1118	0.838474991	179780	0.928849864	179780	0.155905522	179168
1119	0.444003397	179781	0.800598869	179781	0.155930141	179737
1120	0.186996807	179782	0.300552171	179782	0.156151269	179427
1121	0.248511522	179783	0.377928945	179783	0.156407199	182305
1122	0.018033601	179784	0.809740363	179784	0.156463080	186001
1123	0.474069467	179786	0.814685906	179786	0.156502762	179365
1124	0.598698217	179787	0.881231580	179787	0.156642982	183061
1125	0.485652695	179788	0.818165333	179788	0.156762433	179877
1126	0.81054747	179789	0.928849717	179789	0.156763468	183788
1127	0.03188532	179790	0.965679141	179790	0.156821442	185348
1128	0.648921568	179791	0.278673091	179791	0.157214406	179848
1129	0.111210126	179792	0.657037374	179792	0.157249473	185722
1130	0.340496286	179793	0.464936365	179793	0.157350957	183794
1131	0.644566533	179794	0.308892013	179794	0.157545146	182993
1132	0.735020265	179785	0.983499250	179785	0.157815057	181095
1133	0.813975142	179795	0.014230369	179795	0.157923962	185560
1134	0.61208422	179796	0.473277877	179796	0.157993232	180268
1135	0.081810377	179797	0.147049192	179797	0.158086482	180276
1136	0.486633915	179798	0.507571446	179798	0.158577995	183202
1137	0.380867166	179799	0.800498425	179799	0.158615354	182668
1138	0.602316347	179800	0.191308262	179800	0.158674848	179564
1139	0.006748069	179801	0.187573544	179801	0.158694653	182622
1140	0.839216046	179802	0.948677425	179802	0.158695913	183934
1141	0.975442414	179803	0.194144969	179803	0.158726905	179625
1142	0.440618594	179804	0.068052314	179804	0.158761877	180162
1143	0.158092695	179805	0.441679155	179805	0.158903174	185228
1144	0.500942577	179806	0.981325872	179806	0.159004999	183955
1145	0.277526779	179807	0.693169205	179807	0.159328399	182049
1146	0.92153492	179808	0.226390680	179808	0.159560094	180747
1147	0.839545197	179809	0.212721461	179809	0.159611739	180413
1148	0.374775889	179810	0.343586596	179810	0.159659173	185090
1149	0.196303453	179811	0.567704422	179811	0.160103413	179229
1150	0.753717764	179812	0.104931094	179812	0.160104473	182095
1151	0.152846011	179813	0.444889345	179813	0.160415035	181467
1152	0.798941638	179814	0.837135177	179814	0.160774968	180597
1153	0.072297421	179815	0.822845933	179815	0.160842010	180829
1154	0.583952745	179816	0.223940950	179816	0.160858613	183343

1155	0.510195305	179817	0.599021054	179817	0.161216923	184104
1156	0.954946543	179818	0.360479411	179818	0.161341085	180212
1157	0.259299425	179819	0.761482900	179819	0.161629147	185759
1158	0.072560411	179820	0.689015640	179820	0.161732010	181941
1159	0.189826544	179821	0.463175441	179821	0.161912889	182815
1160	0.123537576	179822	0.291788502	179822	0.162075808	179139
1161	0.25268116	179825	0.580039982	179825	0.162161071	181211
1162	0.854627179	179826	0.562584995	179826	0.162710112	182808
1163	0.553579115	179827	0.119479091	179827	0.162753632	182690
1164	0.915640508	179829	0.738417184	179829	0.162869705	184173
1165	0.466468999	179823	0.828732185	179823	0.162959998	183327
1166	0.411659313	179824	0.866930531	179824	0.163014341	185529
1167	0.051354334	179828	0.000205960	179828	0.163122907	178612
1168	0.074169753	179830	0.751100260	179830	0.163239144	184417
1169	0.209398056	179831	0.456664038	179831	0.163473026	182907
1170	0.272142583	179832	0.708219572	179832	0.163543105	180888
1171	0.658303261	179835	0.692987519	179835	0.163671246	185766
1172	0.717444026	179836	0.699119721	179836	0.164223731	179938
1173	0.391982944	179833	0.291386283	179833	0.164491091	185407
1174	0.770082553	179834	0.790466386	179834	0.164862450	181593
1175	0.193450474	179837	0.825038714	179837	0.164865943	179635
1176	0.282598533	179838	0.291030486	179838	0.164934591	183286
1177	0.558327091	179839	0.553172355	179839	0.165159953	179357
1178	0.147997124	179840	0.540587132	179840	0.165379868	183654
1179	0.970450459	179841	0.976564967	179841	0.165387084	183371
1180	0.165759286	179842	0.751235087	179842	0.165430943	178680
1181	0.97563543	179843	0.924728738	179843	0.165432201	185362
1182	0.077672228	179844	0.558927477	179844	0.165453530	182812
1183	0.617331968	179845	0.829070469	179845	0.165727679	180515
1184	0.546872878	179847	0.233965474	179847	0.165744666	182799
1185	0.048916043	179848	0.157214406	179848	0.165956310	178825
1186	0.268276371	179849	0.198096345	179849	0.166010116	179132
1187	0.395445203	179850	0.201745959	179850	0.166180119	179359
1188	0.240241836	179851	0.609546562	179851	0.166191564	185462
1189	0.256539775	179852	0.084452790	179852	0.166261024	179913
1190	0.07748794	179853	0.334297790	179853	0.166979435	183472
1191	0.295534275	179854	0.937658346	179854	0.167058520	185255
1192	0.597331969	179855	0.280932650	179855	0.167081011	182193
1193	0.074610335	179856	0.764391096	179856	0.167232738	179544
1194	0.967261657	179846	0.950068487	179846	0.167377906	181938
1195	0.024920048	179857	0.767755511	179857	0.167698604	185788
1196	0.621638979	179858	0.237119203	179858	0.167805712	184683
1197	0.241961873	179859	0.486554028	179859	0.167894164	185062
1198	0.634577755	179860	0.555974590	179860	0.168017640	183364
1199	0.163986613	179861	0.313194479	179861	0.168130439	185122
1200	0.199677964	179862	0.492386931	179862	0.168201600	185493
1201	0.02504964	179863	0.492565142	179863	0.168410221	180703
1202	0.524098269	179864	0.932287857	179864	0.168537902	182457
1203	0.508800681	179865	0.904621204	179865	0.168633788	180782
1204	0.777685953	179866	0.145124838	179866	0.168832571	180062
1205	0.522130076	179867	0.132970089	179867	0.168880576	181973
1206	0.421541716	179868	0.517796985	179868	0.169025573	180203
1207	0.689160321	179869	0.542864711	179869	0.169128637	185089
1208	0.95227386	179870	0.412484062	179870	0.169173543	181222
1209	0.75739026	179871	0.503991136	179871	0.169421044	179937
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1212	0.97951634	179874	0.729913091	179874	0.169702761	180376
1213	0.77205918	179878	0.398475939	179878	0.169738268	181725
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1215	0.262649259	179875	0.508389709	179875	0.169927701	183748
1216	0.507547385	179876	0.917194826	179876	0.170421559	180469
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1218	0.291494785	179879	0.153241039	179879	0.170538962	183957
1219	0.807683557	179881	0.270930792	179881	0.170622487	181453
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1223	0.777371495	179885	0.064891094	179885	0.171199951	181531
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1910	0.353652265	180662	0.802408264	180662	0.270628760	180165
1911	0.10688798	180663	0.308597157	180663	0.270697108	178738
1912	0.399755379	180664	0.760245273	180664	0.270782130	179700
1913	0.71336016	180665	0.379739701	180665	0.270930792	179881
1914	0.93085247	180666	0.329671086	180666	0.271176267	181107
1915	0.825503469	180667	0.099232655	180667	0.271227983	178623
1916	0.06794161	180668	0.985745044	180668	0.271250432	180746
1917	0.346157725	180686	0.354496710	180686	0.271583754	185673
1918	0.531108056	180687	0.033794310	180687	0.271639667	181894
1919	0.817244309	180643	0.940490535	180643	0.272127926	183707
1920	0.583925244	180669	0.957465843	180669	0.272147536	183393
1921	0.32916802	180644	0.578019443	180644	0.272184299	183041
1922	0.475874386	180645	0.510562630	180645	0.272301147	179594
1923	0.309898353	180670	0.414655347	180670	0.272412230	180706
1924	0.006603535	180671	0.071331359	180671	0.272439928	180171
1925	0.77798852	180672	0.362859286	180672	0.272569411	181721
1926	0.513946715	180673	0.543352558	180673	0.272572706	184853
1927	0.559774367	180674	0.727082097	180674	0.272727689	182702
1928	0.479405498	180675	0.094445850	180675	0.273000289	185898
1929	0.219551216	180676	0.251683532	180676	0.273048073	180899
1930	0.808066824	180677	0.078137915	180677	0.273056899	184871
1931	0.693480668	180679	0.547054057	180679	0.273081524	180830
1932	0.300607264	180678	0.801744870	180678	0.273400516	183945
1933	0.795864589	180680	0.277177961	180680	0.273468257	180257
1934	0.62757141	180681	0.825923168	180681	0.273805723	183260
1935	0.810862417	180682	0.517906234	180682	0.273840856	178923
1936	0.271240225	180683	0.282160045	180683	0.273937058	180456
1937	0.071816842	180684	0.049014341	180684	0.274209364	185121
1938	0.390914816	180688	0.866917095	180688	0.274440648	180756
1939	0.257798009	180689	0.908309162	180689	0.274735289	184792
1940	0.264142968	180690	0.020255135	180690	0.274766060	185346
1941	0.39416641	180691	0.035287279	180691	0.275073888	178845
1942	0.548383109	180692	0.573131140	180692	0.275341809	179592
1943	0.26112444	180693	0.424326170	180693	0.275348916	179124
1944	0.791667487	180694	0.171961829	180694	0.275429282	184059
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1946	0.433724817	180698	0.376922402	180698	0.275603293	178617
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1948	0.469818333	180696	0.912339161	180696	0.275722864	179192
1949	0.712648905	180697	0.376776660	180697	0.275938647	183448
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1953	0.074986116	180702	0.253702915	180702	0.276270470	180437
1954	0.441208846	180703	0.168410221	180703	0.276510800	179398
1955	0.609032899	180704	0.916802560	180704	0.276562544	181134
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1958	0.76565331	180707	0.338729122	180707	0.276744257	185563
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1966	0.032262037	180714	0.110860944	180714	0.278038949	179437
1967	0.451443694	180715	0.923409595	180715	0.278326956	179471
1968	0.461824892	180716	0.762540605	180716	0.278365009	184245
1969	0.828877993	180718	0.202400448	180718	0.278672339	181788
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1972	0.69165826	180721	0.532018677	180721	0.278940850	185084
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1974	0.850481392	180723	0.697954403	180723	0.279134525	184682
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3319	0.075873725	182150	0.251944603	182150	0.467073125	184302
3320	0.665094832	182151	0.064199611	182151	0.467136152	182290
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3322	0.019660041	182153	0.047122687	182153	0.467264089	181060
3323	0.055666709	182154	0.446888695	182154	0.467429848	180387
3324	0.266328636	182158	0.886829185	182158	0.467628058	185332
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3327	0.559151488	182163	0.923781635	182163	0.467838024	185844
3328	0.061211216	182155	0.095416764	182155	0.468136993	185048
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3330	0.270180437	182157	0.712925213	182157	0.468448242	180932
3331	0.418332968	182159	0.499404352	182159	0.468507866	183321
3332	0.771266576	182160	0.042522941	182160	0.468570020	183703
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3334	0.033134084	182165	0.712437905	182165	0.469152876	181079
3335	0.773725961	182166	0.435728573	182166	0.469199612	180416
3336	0.484281347	182167	0.946487347	182167	0.469254867	180922
3337	0.678660972	182168	0.698874463	182168	0.469405408	179350
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3339	0.413867598	182170	0.248622710	182170	0.469721229	184317
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3341	0.282521502	182172	0.970240130	182172	0.469919640	182255
3342	0.126381808	182173	0.208603357	182173	0.470252655	184786
3343	0.43881307	182174	0.120289573	182174	0.470436576	178753
3344	0.702449584	182175	0.229838992	182175	0.470619255	181283
3345	0.26532955	182176	0.406286656	182176	0.470626976	183466
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3349	0.705279342	182182	0.977003248	182182	0.471643021	183387
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3352	0.674913635	182183	0.463265602	182183	0.472931803	180354
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3356	0.666273102	182187	0.398112545	182187	0.473147793	185508
3357	0.003310902	182188	0.896592084	182188	0.473198674	182726
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3364	0.7375392	182196	0.890087352	182196	0.473756184	178608
3365	0.877934518	182193	0.167081011	182193	0.473843111	186054
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3374	0.182917189	182204	0.649106677	182204	0.474893812	178628
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0.492565142	179863
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3566	0.442397237	182435	0.765140386	182435	0.504242710	178935
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3598	0.704713314	182469	0.971139365	182469	0.508388365	179163
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3619	0.418631749	182490	0.842445197	182490	0.511585799	185117
3620	0.701309815	182491	0.563106291	182491	0.511592911	184227
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3622	0.97820097	182493	0.534689309	182493	0.511713588	182771
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3624	0.732168082	182495	0.756784492	182495	0.511935496	178657
3625	0.61604272	182496	0.170453239	182496	0.512114580	179067
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3627	0.40047455	182498	0.334184531	182498	0.512294595	185175
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3641	0.490831048	182545	0.748483593	182545	0.513816144	179346
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3786	0.770155882	182655	0.249030076	182655
3787	0.097451766	182656	0.351962214	182656
3788	0.127659882	182657	0.401246107	182657
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3794	0.79816621	182658	0.225267647	182658
3795	0.697461929	182659	0.913176129	182659
3796	0.34294111	182661	0.439312962	182661
3797	0.667028013	182662	0.674659507	182662
3798	0.12751057	182663	0.389074097	182663
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3804	0.335827423	182669	0.142026712	182669
3805	0.358989752	182670	0.453733522	182670
3806	0.272053612	182671	0.334749610	182671
3807	0.792565359	182672	0.145992984	182672
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3816	0.991676259	182681	0.086654953	182681	0.541440187	181514
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3822	0.787058987	182687	0.916252338	182687	0.542345838	184942
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3828	0.153244628	182693	0.435153919	182693	0.542846476	183829
3829	0.622951564	182694	0.655813941	182694	0.542864711	179869
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3839	0.968645089	182704	0.557964160	182704	0.544865540	183568
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3841	0.159091002	182706	0.041873597	182706	0.545336252	178987
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3887	0.284689668	182758	0.187555712	182758	0.553847282	183669
3888	0.371417805	182759	0.937222473	182759	0.553971637	185219
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0.597399633	182664
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0.597586632	182284
0.597662776	182880
0.597818027	185466
0.598109257	181826
0.598201115	181192
0.598259333	183194
0.598293346	183138
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0.599149373	181325
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0.599503199	183169
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0.599691269	185735
0.599811482	180102
0.599887782	178960
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0.600748025	182636
0.600889564	179035
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0.601998755	182804
0.602124283	181759
0.602173864	179654
0.602220083	185784
0.602550698	182020

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4227	0.099633303	183139	0.223870068	183139	0.602585428	184161
4228	0.735847578	183137	0.445728740	183137	0.602915204	180655
4229	0.590545951	183138	0.598293346	183138	0.603015990	184752
4230	0.802301645	183140	0.299319012	183140	0.603377480	181497
4231	0.001485615	183141	0.654536971	183141	0.603492451	181746
4232	0.107727806	183142	0.303911176	183142	0.603527056	179915
4233	0.51014376	183143	0.227655652	183143	0.603654583	185179
4234	0.861696996	183144	0.565405216	183144	0.603670349	180352
4235	0.322946509	183145	0.229903844	183145	0.603696843	183265
4236	0.725922928	183146	0.058687601	183146	0.603979702	185375
4237	0.521182095	183147	0.459401190	183147	0.604172219	184233
4238	0.722216385	183148	0.519020586	183148	0.604643176	183162
4239	0.165929898	183149	0.134033977	183149	0.604708068	182619
4240	0.987425191	183150	0.601222579	183150	0.604745703	179090
4241	0.810290597	183152	0.458374290	183152	0.604766867	179714
4242	0.684825612	183153	0.905134934	183153	0.604986065	178659
4243	0.872506836	183154	0.632330604	183154	0.604993814	182295
4244	0.002954384	183155	0.678155673	183155	0.605062414	184223
4245	0.00960901	183156	0.556981176	183156	0.605138204	180421
4246	0.313544645	183157	0.518866069	183157	0.605161518	182817
4247	0.08558535	183151	0.056424931	183151	0.605184900	180928
4248	0.718659411	183158	0.672653017	183158	0.605247598	178838
4249	0.373680041	183159	0.582613027	183159	0.605344228	179530
4250	0.166647744	183160	0.970526043	183160	0.605352101	181597
4251	0.948901486	183161	0.739228321	183161	0.605593990	180958
4252	0.539905125	183162	0.604643176	183162	0.605691573	178601
4253	0.088814117	183163	0.243177818	183163	0.605859035	184814
4254	0.340221307	183164	0.710461240	183164	0.605865861	180713
4255	0.30619714	183165	0.589291118	183165	0.605984559	181868
4256	0.415784075	183166	0.437956275	183166	0.606008896	180657
4257	0.663938373	183167	0.041762668	183167	0.606056185	183774
4258	0.306224716	183168	0.214714984	183168	0.606078885	181479
4259	0.812180537	183169	0.599503199	183169	0.606090543	180288
4260	0.754656711	183170	0.377583400	183170	0.606957925	185079
4261	0.17812703	183171	0.788220796	183171	0.607085380	182716
4262	0.625435581	183172	0.227507586	183172	0.607161504	185135
4263	0.034199541	183173	0.372730191	183173	0.607281954	184826
4264	0.725792167	183174	0.750943794	183174	0.607478500	181981
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4266	0.904254102	183176	0.638396967	183176	0.607535112	185354
4267	0.112618571	183177	0.321830205	183177	0.607758741	180101
4268	0.187201049	183178	0.050280370	183178	0.607846097	182304
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4270	0.43068524	183180	0.283873993	183180	0.608379501	178574
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4273	0.669109856	183183	0.404420521	183183	0.608945741	179044
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4276	0.441392531	183186	0.819821959	183186	0.609331394	181535
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4280	0.990981704	183190	0.536959496	183190	0.609546562	179851
4281	0.146042958	183191	0.140185045	183191	0.609550329	182437
4282	0.704822732	183193	0.582381851	183193	0.609584758	178973
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4284	0.599975084	183195	0.638673484	183195	0.609770298	183136
4285	0.801462022	183196	0.981899821	183196	0.610174955	184356
4286	0.161920201	183197	0.267627835	183197	0.610183628	184362
4287	0.350694678	183192	0.752725983	183192	0.610192797	181851
4288	0.113452941	183198	0.767866746	183198	0.610215965	180194
4289	0.830349291	183199	0.630080006	183199	0.610331929	184076
4290	0.461826531	183202	0.158577995	183202	0.610454712	184789
4291	0.942878522	183200	0.971417136	183200	0.610536478	183109
4292	0.932246183	183201	0.516960395	183201	0.610637170	184316
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4294	0.38195046	183204	0.238523951	183204	0.610835753	180793
4295	0.674699739	183205	0.397405381	183205	0.610917899	179509
4296	0.349863162	183206	0.473330623	183206	0.610954190	180736
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4298	0.69781134	183208	0.017421843	183208	0.610996791	183628
4299	0.856900268	183209	0.102640685	183209	0.611084429	180720
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4301	0.116540938	183211	0.796474353	183211	0.612066003	180980
4302	0.910679231	183212	0.585930639	183212	0.612304591	180324
4303	0.6563312	183213	0.043709196	183213	0.612323239	186024
4304	0.196127119	183214	0.809494662	183214	0.612335840	184535
4305	0.705561198	183215	0.116842606	183215	0.612452232	183278
4306	0.075590125	183216	0.778327938	183216	0.612491369	179385
4307	0.036857662	183217	0.520012472	183217	0.612887348	182564
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4310	0.251836019	183220	0.752670484	183220	0.613703296	181449
4311	0.801995276	183221	0.151662451	183221	0.613806056	182770
4312	0.708476479	183222	0.812349809	183222	0.613889382	180145
4313	0.548015748	183223	0.183190588	183223	0.614351806	180787
4314	0.579919807	183224	0.325198597	183224	0.614402136	182472
4315	0.43111028	183225	0.488273215	183225	0.614411548	184252
4316	0.350090677	183226	0.789429969	183226	0.614664910	185193
4317	0.713557025	183227	0.092826195	183227	0.614720655	185635
4318	0.465760271	183229	0.514271225	183229	0.614736128	179528
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4320	0.002637591	183231	0.281258660	183231	0.615003948	185043
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4324	0.652103376	183234	0.318879407	183234	0.615712358	178735
4325	0.648992271	183235	0.286478116	183235	0.615725419	184043
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4327	0.839800623	183237	0.829850369	183237	0.615942190	179614
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4329	0.843026641	183239	0.384029544	183239	0.616066155	181348
4330	0.30107465	183240	0.727816534	183240	0.616100473	181651
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4332	0.043830295	183243	0.695772610	183243	0.616294903	181663
4333	0.998612342	183244	0.923380351	183244	0.616317993	186101
4334	0.205108207	183245	0.939922857	183245	0.616321875	185418
4335	0.027932846	183246	0.656558594	183246	0.616407267	179550
4336	0.71550607	183247	0.758877661	183247	0.616435746	182476
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4340	0.806496337	183253	0.189752147	183253	0.617213514	181803
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4347	0.445570215	183257	0.094733538	183257	0.618560700	180055
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4355	0.786311077	183265	0.603696843	183265	0.620051516	182492
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4378	0.44024599	183288	0.632834190	183288	0.623154382	185872
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4729	0.66927077	183694	0.879393263	183694	0.673087633	181018
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4769	0.055477903	183736	0.245882407	183736	0.677861696	183796
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5864	0.70144107	184879	0.601307624
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5868	0.905229262	184883	0.756928114
5869	0.050200915	184872	0.676787879
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6140	0.03038186	185184	0.626331888	185184	0.869022905	185961
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6150	0.743774171	185192	0.746102326	185192	0.870665176	183422
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6173	0.511775193	185218	0.482939628	185218	0.875504008	185092
6174	0.195694175	185219	0.553971637	185219	0.875634466	185567
6175	0.668328444	185220	0.736267673	185220	0.875743273	184935
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6208	0.124905068	185246	0.807508911	185246	0.881195461	185989
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6215	0.811087867	185257	0.197609893	185257	0.882552994	183403
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6223	0.009586251	185274	0.483545292	185274	0.883222972	181385
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6266	0.066418476	185309	0.832586464	185309	0.891861907	183110
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6278	0.71329057	185317	0.565300304	185317	0.893647154	180499
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6280	0.873271606	185319	0.943619426	185319	0.893959070	181799
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6283	0.166093389	185327	0.927575920	185327	0.894247079	179162
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6286	0.631293483	185330	0.757067564	185330	0.894410323	182537
6287	0.790622133	185332	0.467628058	185332	0.895003582	181329
6288	0.996657744	185340	0.542423600	185340	0.895080533	179233
6289	0.547616452	185331	0.448881786	185331	0.895107924	179031
6290	0.578354855	185333	0.129834505	185333	0.895856057	184051
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6292	0.236639373	185335	0.647162043	185335	0.896001321	181530
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6296	0.258715441	185343	0.883097006	185343	0.896437317	185368
6297	0.493760058	185338	0.105673352	185338	0.896524603	182529
6298	0.681382169	185339	0.598961414	185339	0.896592084	182188
6299	0.476439897	185342	0.004441596	185342	0.896760375	179912
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6305	0.196000063	185348	0.156821442	185348
6306	0.625974531	185366	0.504745023	185366
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7015	0.897509112	186087	0.820923032	186087
7016	0.671741572	186082	0.476435616	186082
7017	0.999720737	186079	0.643199782	186079
7018	0.558859541	186080	0.180930894	186080
7019	0.584636725	186084	0.912402648	186084
7020	0.131254402	186076	0.757360471	186076
7021	0.176686488	186081	0.486717025	186081
7022	0.571378908	186092	0.825622699	186092
7023	0.166980208	186089	0.379514622	186089
7024	0.825532938	186101	0.616317993	186101
7025	0.411553332	186100	0.094317178	186100
7026	0.613003072	186090	0.652418200	186090
7027	0.388653631	186102	0.750887848	186102
7028	0.566190325	186098	0.330144477	186098
7029	0.70044918	186104	0.234789038	186104
7030	0.769808328	186106	0.993574080	186106
7031	0.143046198	186103	0.508328176	186103
7032	0.576278678	186096	0.020955982	186096
7033	0.679626152	186091	0.581253225	186091
7034	0.819952637	186095	0.385895525	186095
7035	0.495179537	186094	0.549872113	186094
7036	0.03501115	186099	0.756810241	186099
7037	0.82959801	186097	0.454702480	186097
7038	0.263800951	186093	0.666280452	186093

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0.988886116	180097
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0.988957980	185334
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0.989068971	185849
0.989173750	185512
0.989258716	181237
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0.990687316	184475
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0.990831877	182017
0.990855124	185428
0.990874097	180541
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0.992069845	180762
0.992129699	184791
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0.992465793	183830
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