This file contains data:

New Jersey DEP Water Samples Non-targeted Analysis

Mark Strynar analyst

Original file provided by M. Stryna: 4-10-19 NJ NTA water MJS reassessed was processed into NJ NTA Water OFFICIAl Dat

K. Sullivan created this worksheet for developing synthesized data tables for presentation or further analysis.
A Screening page was implemented that applies rules to various parameters asociated with each sample to sort for likel
Various worksheets organize the processed data for further analysis or reporting.

Guide to Worksheets
NJ NTA Water OFFICIAL Data
Screened Data
MATCHED PFAS
Suspect PFAS
Report Ready_PFAS Analyte List
Heat Map_ Matched ALL SITES
ALL SITES Heat Map
Report Ready TSW
Report Ready NSW
Report Ready GW Wells
Heat Map SUSPECT All Sites

Analytical Notes

M. Strynar, lead analyst, removed C2HF3O2 of the MW 113.9 (neutral) and 112.9 (anionic) from the reported analyte list. (This chemical is also called trichloroacetic acid (TFA) July 10, 2019

M. Strynar removed sample TSW013 from results reporting (Jul 8, 2019)

M. Strynar: comment in review of draft report regarding Compound # 22 ClPFECA in PFAS Analyte List

Supports NJDEP Data Report # 4
a.xlxs

/ PFAS. The analyst also performed this step for some analytes manually.

Content
Processed and corrected data used as basis for this analysis
Complete analyte list with screening results, group classification, check for "noise" threshold, and sample values. The order of samples in columns may be rearranged from original data set
Only analytes that are IDENTIFIED from Screened worksheet
Only analytes that meet PFAS characteristics screened but not matched. Uses only the Suspecta category
Lists Analytes and key characteristics including "order"
Matched PFAS data all sites
MATCHED PFAS: colored heat map of peak area for all sites
MATCHED PFAS: colored heat map of peak area TSW sites only
MATCHED PFAS: colored heat map of peak area NSW sites only
MATCHED PFAS: colored heat map of peak area Wells (PFW) sites only
Suspect Analytes data all sites

Strynar: email 7/10/2019. My opinion on the inclusion of TFA in the final report is we should remove it. Though it is a PFAS, and is on our PFAS DB list it is also a compound we use to calibrate the TOFMS system and is found in most samples with a high degree of variability including the blanks. It is often not integrated correctly by the integrator algorithm (Profinder) as it is a very early eluting compound near the void volume and is prone to matrix enhancement/suppression.

Strynar email 7/8/2019: I see in the attached Excel file that the samples named PFTSW013 and PFNSW002 had no IS response relative to the others. Thus I would call them a bad injection and think they should not be given in the final NTA report.
This is all accurate. However we mainly see a fragment (M-H m/z 366.9395) rather than the intact molecule which would be M-H 460.9267 m/z for the shown formula C8 H Cl F14 O4

Used For
source for Screened Data worksheet
Primary filtering worksheet (eliminate dups, low abundance samples, etc. Source of all other reporting tables in the file.
Isolates Matched PFAS. Verified by analyst.
Isolates suspect PFAS.
Report Table 2.
Excel synthesized data table
Excel synthesized data table
Report Table 3.
Report Table 4.
Report Table 5.
Excel synthesized data table

New Jersey DEP NTA List of Matched Analytes

NJDEP Data Report # 4 Table 2

This worksheet sourced directly from MATCHED PFAS worksheet

Chemical Reference #	Tentatively Identified Compound
1	Perfluoropropanoic acid; CAS 422-64-0
2	Perfluorobutanoic acid (PFBA); CAS 375-22-4
3	Perfluoropentanoic acid (PFPeA); CAS 2706-90-3
4	Perfluorohexanoate (PFHxA); CAS 92612-52-7
5	Perfluoroheptanoic acid (PFHpA); CAS 375-85-9
6	Perfluorooctanoic acid (PFOA); CAS 335-67-1
7	Perfluorononanoic acid (PFNA); CAS 375-95-1
8	Perfluorodecanoic acid (PFDA); CAS 335-76-2
9	Perfluorododecanoic acid (PRDoDA); CAS 307-55-1
10	Perfluorotetradecanoic acid (PFTrDA); CAS 376-06-7
11	Perfluorobutanesulfonate (PFBS); CAS 375-73-5
12	Perfluoropentanesulfonate (PFPeS); CAS 2706-91-4
13	Perfluoroheptanesulfonic acid (PFHpS); CAS 375-92-8
14	Perfluorooctanesulfonate (PFOS); CAS 1763-23-1
15	Perfluorononanesulfonic acid (PFNS); CAS 68259-12-1
16	2:2 fluorotelomer alcohol; CAS 54949-74-5
17	3:2 Fluorotelomer alcohol; CAS 755-40-8
18	4:2 Fluorotelomer sulfonic acid (4:2FtS); CAS 757124-72-4
19	6:2 Fluorotelomer sulfonic acid (6:2FtS); CAS 27619-97-2
20	8:2 Fluorotelomer sulfonic acid (8:2FtS); CAS 39108-34-4
21	7:2 Fluorotelomer dihydrogen phosphate; CAS 37013-72-2
22	ClPFPECA 0,1 (Chloro-Perfluoro=Polyether-Carboxylate)
23	N,N-dimethyl-2H-perfluoroethanamine; CAS 1550-50-1
24	2H-Perfluoropropane 6.207
25	ethyl 2,3,3,3-tetrafluoropropanoate; CAS 399-92-8
26	1H,2H-Hexafluorocyclopentene; CAS 1005-73-8
27	1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane; CAS 42415-18-9
28	2-Perfluoropropyl-2-propanol; CAS 355-22-6
29	5H-Perfluoropentanal; CAS 2648-47-7
30	Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate; CAS 1513-60-6
31	2,2,3,3,4,4-Hexafluorobutyl 2-methylprop-2-enoate; CAS 45168-50-1
32	1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene; CAS 54111-17-0
33	N-Methyl-N-trimethylsilylheptafluorobutyramide; CAS 53296-64-3
34	1H-Perfluorohexane (C7 decarboxyl fragment)
35	1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate; CAS 678-95-5
36	Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt
37	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate
38	2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl Fluoride; CAS 5927-65-1
39	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate; CAS 376-34-1
40	((Perfluorobutyl)ethyl)trimethoxysilane; CAS 85877-79-8
41	1-Hydroperfluoroheptane; CAS 375-83-7
42	decarboxyl PFOA fragment
43	3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate; CAS 61915-92-2
44	Tridecafluoroheptaneperoxoic acid; CAS 139702-34-4
45	C8H12F9NO4S
46	Undecafluorocyclohexanemethanol dihydrogen phosphate; CAS 32582-74-4
47	decarboxyl PFNA fragment
48	Perfluoropentane sulfonamido amine; CAS 68555-78-2
49	6:2 Fluorotelomer phosphate monoester; CAS 57678-01-0
50	C14H17F13O
51	C11H6ClF13O2
52	C9H3F17O3
53	Perfluorooctanesulfonamide (PFOSA); CAS 754-91-6
54	11-H-Perfluoroundecanoic acid; CAS 1765-48-6
55	Monoperfluorooctyl itaconate; CAS 230295-05-3
56	POLYFLGSID_880938; CAS 68957-57-3
57	Methyl perfluoroundecanoate; CAS 203302-98-1
58	Henicosafluorodecanesulphonate (PFDS)
59	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1)
60	POLYFLGSID_880958; CAS 72494-14-5
61	Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide; CAS 32687-76-6
62	2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane; CAS 37486-69-4

Formula	Monoisotopic Mass (Daltons)	Retention Time	CAS #
C3 H F5 O2	163.9903	0.96	CAS 422-64-0
C4 H F7 O2	213.9877	1.54	CAS 375-22-4
C5 H F9 O2	263.9844	4.28	CAS 2706-90-3
C6 H F11 O2	313.9809	5.51	CAS 92612-52-7
C7 H F13 O2	363.9783	6.21	CAS 375-85-9
C8 H F15 O2	413.9734	6.71	CAS 335-67-1
C9 H F17 O2	463.9710	7.11	CAS 375-95-1
C10 H F19 O2	513.9676	7.48	CAS 335-76-2
C12 H F23 O2	613.9591	8.33	CAS 307-55-1
C14 H F27 O2	713.9526	13.86	CAS 376-06-7
C4 H F9 O3 S	299.9510	4.67	CAS 375-73-5
C5 H F11 O3 S	349.9471	5.61	CAS 2706-91-4
C7 F15 H O3 S	449.9400	6.71	CAS 375-92-8
C8 H F17 O3 S	499.9374	7.10	CAS 1763-23-1
C9 H F19 O3 S	549.9322	7.48	CAS 68259-12-1
C4 H5 F5 O	164.0226	1.10	CAS 54949-74-5
C5 H5 F7 O	214.0232	0.19	CAS 755-40-8
C6 H5 F9 O3 S	327.9826	5.36	CAS 757124-72-4
C8 H5 F13 O3 S	427.9751	6.64	CAS 27619-97-2
C10 H5 F17 O3 S	527.9677	7.47	CAS 39108-34-4
C9 H6 F15 O4 P	493.9763	7.36	CAS 37013-72-2
C8 CL F14 O4	367.9480	7.02	1
C4 H7 F4 N	145.0540	3.14	CAS 1550-50-1
C3 H F7	169.9969	0.00	1
C5 H6 F4 O2	174.0275	0.00	CAS 399-92-8
C5 H2 F6	176.0051	0.00	CAS 1005-73-8
C6 H10 F4 O3	206.0563	1.33	CAS 42415-18-9
C6 H7 F7 O	227.0427	2.25	CAS 355-22-6
C5 H2 F8 O	229.9938	1.05	CAS 2648-47-7
C7 H6 F6 O2	236.0350	0.70	CAS 1513-60-6
C8 H8 F6 O2	250.0450	0.00	CAS 45168-50-1
C14 H18 F4	262.1400	4.58	CAS 54111-17-0
C8 H12 F7 N O Si	299.0625	1.42	CAS 53296-64-3
C6 H F13	319.9874	0.00	1
C11 H10 F6 O4	320.0495	1.34	CAS 678-95-5
C15 H10 F6 O2	336.0603	4.90	1
C7 H2 F12 O2	345.9877	5.14	1
C7 H F13 O	347.9841	0.00	CAS 5927-65-1
C7 H5 F12 N O2	363.0126	0.00	CAS 376-34-1
C9 H13 F9 O3 Si	368.0558	0.58	CAS 85877-79-8
C7 H F15	369.9833	6.71	CAS 375-83-7
C7 H F15	369.9853	0.00	1
C12 H12 F10 O2	378.0761	0.67	CAS 61915-92-2
C7 H F13 O3	379.9721	6.33	CAS 139702-34-4
C8 H12 F9 N O4 S	389.0297	6.37	1
C7 H4 F11 O4 P	391.9725	0.00	CAS 32582-74-4
C8 H F17	419.9811	7.11	1
C10 H13 F11 N2 O2 S	434.0591	4.22	CAS 68555-78-2
C8 H6 F13 O4 P	443.9812	6.98	CAS 57678-01-0
C14 H17 F13 O	448.1024	4.06	1
C11 H6 Cl F13 O2	451.9865	6.77	1
C9 H3 F17 O3	481.9771	7.15	1
C8 H2 F17 N O2 S	498.9501	6.70	CAS 754-91-6
C11 H2 F20 O2	545.9735	7.15	CAS 1765-48-6
C13 H5 F17 O4	547.9887	7.71	CAS 230295-05-3
C11 H16 F11 I N2 O2 S	575.9825	7.04	CAS 68957-57-3
C12 H3 F21 O2	577.9789	7.29	CAS 203302-98-1
C10 H F21 O3 S	599.9310	7.85	1
C13 H F25 O2	663.9548	9.13	1
C33 H42 F8 N2 O4	682.3009	13.30	CAS 72494-14-5
C14 H2 F24 O4	689.9555	6.38	1
C17 H F35 O5	949.9221	7.00	CAS 37486-69-4

62 # compounds
48 With CAS Numbers
77% Percent with CAS

14

New Jersey DEP Water Samples--NTA Analysis--MATCHED PFAS

This worksheet sourced directly from MATCHED PFAS worksheet

This table is screened by: 3 x Standard Deviation of All Blanks

Tentatively Identified Compound	Monoisotopic Mass (g/mol)	Formula	Chemical Reference #	PFNSW 003	count if ND
Perfluoropropanoic acid; CAS 422-64-0	163.9803	C3 H F5 O2	1	ND	61
Perfluorobutanoic acid (PFBA); CAS 375-22-4	213.9877	C4 H F7 O2	2	ND	59
Perfluoropentanoic acid (PFPeA); CAS 2706-90-3	263.9844	C5 H F9 O2	3	ND	59
Perfluorohexanoate (PFHxA); CAS 92612-52-7	313.9809	C6 H F11 O2	4	ND	62
Perfluoroheptanoic acid (PFHpA); CAS 375-85-9	363.9783	C7 H F13 O2	5	ND	58
Perfluorooctanoic acid (PFOA); CAS 335-67-1	413.9734	C8 H F15 O2	6	ND	56
Perfluorononanoic acid (PFNA); CAS 375-95-1	463.971	C9 H F17 O2	7	ND	55
Perfluorodecanoic acid (PFDA); CAS 335-76-2	513.9676	C10 H F19 O2	8	ND	64
Perfluorododecanoic acid (PFDoDA); CAS 307-55-1	613.9591	C12 H F23 O2	9	ND	65
Perfluorotetradecanoic acid (PFTrDA); CAS 376-06-7	713.9526	C14 H F27 O2	10	ND	65
Perfluorobutanesulfonate (PFBS); CAS 375-73-5	299.951	C4 H F9 O3S	11	ND	57
Perfluoropentanesulfonate (PFPeS); CAS 2706-91-4	349.9471	C5 H F11 O3S	12	[illegible]	49
Perfluoroheptanesulfonic acid (PFHpS); CAS 375-92-8	449.94	C7 F15 H O3S	13	[illegible]	50
Perfluorooctanesulfonate (PFOS); CAS 1763-23-1	499.9374	C8 H F17 O3S	14	ND	52
Perfluorononanesulfonic acid (PFNS); CAS 68259-12-1	549.9322	C9 H F19 O3S	15	ND	62
2:2 fluorotelomer alcohol; CAS 54949-74-5	164.0226	C4 H5 F5 O	16	[illegible]	49
3:3 Fluorotelomer alcohol; CAS 755-40-8	214.0232	C5 H5 F7 O	17	ND	64
4:2 Fluorotelomer sulfonic acid (4:2FtS); CAS 757124-72-4	327.9826	C6 H5 F9 O3S	18	ND	53
6:2 Fluorotelomer sulfonic acid (6:2FtS); CAS 27619-97-2	427.9751	C8 H5 F13 O3 S	19	ND	63
8:2 Fluorotelomer sulfonic acid (8:2FtS); CAS 39108-34-4	527.9677	C10 H5 F17 O3 S	20	ND	65
7:2 Fluorotelomer dihydrogen phosphate; CAS 37013-72-2	493.9763	C9 H6 F15 O4 P	21	ND	65
ClPFPECA 0,1 (Chloro-Perfluoro-Polyether-Carboxylate)	367.948	C8 CL F14 O4	22	ND	49
N,N-dimethyl-2H-perfluoroethanamine; CAS 1550-50-1	145.054	C4 H7 F4 N	23	60,500	28
2H-Perfluoropropane 6.207	169.9969	C3 H F7	24	ND	64
ethyl 2,3,3,3-tetrafluoropropanoate; CAS 399-92-8	174.0275	C5 H6 F4 O2	25	ND	64
1H,2H-Hexafluorocyclopentene; CAS 1005-73-8	176.0051	C5 H2 F6	26	ND	64
1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane; CAS 42415-12-9	206.0563	C6 H10 F4 O3	27	[illegible]	44
2-Perfluoropropyl-2-propanol; CAS 355-22-6	227.0427	C6 H7 F7 O	28	ND	50
5H-Perfluoropentanal; CAS 2648-47-7	229.9938	C5 H2 F8 O	29	ND	58
Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate; CAS 1513-60-6	236.035	C7 H6 F6 O2	30	ND	46
2,2,3,3,4,4-Hexafluorobutyl 2-methylprop-2-enoate; CAS 45168-50-1	250.045	C8 H8 F6 O2	31	ND	64
1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene; CAS 54111-17-0	262.14	C14 H18 F4	32	ND	57
N-Methyl-N-trimethylsilylheptafluorobutyramide; CAS 53296-64-3	299.0625	C8 H12 F7 N O Si	33	ND	64
1H-Perfluorohexane (C7 decarboxyl fragment)	319.9874	C6 H F13	34	ND	47
1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate; CAS 678-95-5	320.0495	C11 H10 F6 O4	35	ND	58
Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt	336.0603	C15 H10 F6 O2	36	[illegible]	65
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate	345.9877	C7 H2 F12 O2	37	ND	64
2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl Fluoride; CAS 5927-65-1	347.9841	C7 H F13 O	38	ND	64
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate; CAS 376-34-1	363.0126	C7 H5 F12 N O2	39	ND	46
((Perfluorobutyl)ethyl)trimethoxysilane; CAS 85877-79-8	368.0558	C9 H13 F9 O3 Si	40	ND	62
1-Hydroperfluoroheptane; CAS 375-83-7	369.9833	C7 H F15	41	ND	64
decarboxyl PFOA fragment	369.9853	C7 H F15	42	ND	48
3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate; CAS 61915-92-2	378.0761	C12 H12 F10 O2	43	ND	60
Tridecafluoroheptaneperoxoic acid; CAS 139702-34-4	379.9721	C7 H F13 O3	44	ND	65
C8H12F9NO4S	389.0297	C8 H12 F9 N O4 S	45	ND	64
Undecafluorocyclohexanemethanol dihydrogen phosphate; CAS 32582-74-4	391.9725	C7 H4 F11 O4 P	46	ND	55
decarboxyl PFNA fragment	419.9811	C8 H F17	47	ND	50
Perfluoropentane sulfonamido amine; CAS 68555-78-2	434.0591	C10 H13 F11 N2 O2 S	48	[illegible]	65
6:2 Fluorotelomer phosphate monoester; CAS 57678-01-0	443.9912	C8 H6 F13 O4 P	49	ND	63
C14H17F13O	448.1024	C14 H17 F13 O	50	ND	65
C11H6ClF13O2	451.9865	C11 H6 Cl F13 O2	51	ND	65
C9H3F17O3	481.9771	C9 H3 F17 O3	52	ND	58
Perfluorooctanesulfonamide (PFOSA); CAS 754-91-6	498.9501	C8 H2 F17 N O2 S	53	ND	65
11-H-Perfluoroundecanoic acid; CAS 1765-48-6	545.9735	C11 H2 F20 O2	54	ND	65
Monoperfluorooctyl itaconate; CAS 230295-05-3	547.9887	C13 H5 F17 O4	55	ND	65
POLYFLGSID_880938; CAS 68957-57-3	575.3825	C11 H16 F11 N2 O2 S	56	ND	65
Methyl perfluoroundecanoate; CAS 203302-98-1	577.9789	C12 H3 F21 O2	57	ND	63
Henicosafluorodecanesulphonate (PFDS)	599.931	C10 H F21 O3 S	58	ND	65
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1)	663.9548	C13 H F25 O2	59	ND	65
POLYFLGSID_880952; CAS 72494-14-5	682.3009	C33 H42 F8 N2 O4	60	ND	65
Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide; CAS 32687-76-6	689.9555	C14 H2 F24 O4	61	ND	65
2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane; CAS 37486-69-4	949.9221	C17 H F35 O5	62	ND	63
				90,136	

Other sample columns (PFNSW 004, PFNSW DUP2, PFNSW 005, 012, 014, 017, 018, DUP1, 019, 020, 023, 025; PFFW 001 through PFFW 025 and duplicates; PFFTSW 001 through PFFTSW 020 and duplicates), Annotations, MS1 Composite Spectrum, Original Raw Order and Sum columns: [illegible]

	Count >1	Count ND	Total No. Cells	Ratio Detect/NonDetect Within Group		Detects as % of All Cells (n=4,556)	Detects as % of All Detect Cells (n=572)
NSW	95	711	806	0.12		2.3%	22%
Wells	240	1,744	1984	0.12		5.9%	57%
TSW	89	1,213	1302	0.07		2.2%	21%

Count All Combined 424 3,668 4,092 0.12

Median Value of Water Body Groups

computed as median for all cells in group

group is 68 compounds x # of columns in group

	Median	n=
NSW	11,700	806
Wells	29,350	1,984
TSW	35,500	1,302

LEGEND		
Color	Peak Area Category	
ND	Non-detectable; peak area <5 times average of blanks	236/245/231
	≥5x Blank - 20,000	169/208/142
	20,000-50,000	214/233/142
	50,000 - 100,000	255/255/100
	100,000-500,000	255/217/102
	500,000 - 1,000,000	255/167/59
	>1,000,000	255/125/125

New Jersey DEP Water Samples--NTA Analysis--Tidal Surface Water Sites

This worksheet sourced directly from MATCHED PFAS worksheet

NJDEP Data Report # 4 Table 3

This table is screened by: 3 x Standard Deviation of All Blanks

Tentatively Identified Compound	Monoisotopic Mass (g/mol)	Formula	Chemical Reference #	PFTSW 001	PFTSW 002	PFTSW 003	PFTSW 004	PFTSW 005	PFTSW 006	PFTSW 007	PFTSW 008	PFTSW 009	PFTSW 010	PFTSW DUP2	PFTSW 011	PFTSW 012	PFTSW 014	PFTSW 015	PFTSW DUP1	PFTSW 016	PFTSW 017	PFTSW 018	PFTSW 019	PFTSW 020
Perfluoropropanoic acid; CAS 422-64-0	163.9903	C3 H F5 O2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	59,800	57,500	ND	ND
Perfluorobutanoic acid (PFBA); CAS 375-22-4	213.9877	C4 H F7 O2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	291,000	ND	ND	ND	333,000	107,000	ND	ND
Perfluoropentanoic acid (PFPeA); CAS 2706-90-3	263.9844	C5 H F9 O2	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	331,000	ND	ND	ND	646,000	169,000	ND	ND
Perfluorohexanoate (PFHxA); CAS 92612-52-7	313.9809	C6 H F11 O2	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	317,000	ND	ND	ND	742,000	199,000	ND	ND
Perfluoroheptanoic acid (PFHpA); CAS 375-85-9	363.9783	C7 H F13 O2	5	ND	ND	ND	ND	ND	ND	ND	ND	89,800	ND	ND	ND	ND	294,000	ND	ND	ND	314,000	77,200	ND	ND
Perfluorooctanoic acid (PFOA); CAS 335-67-1	413.9734	C8 H F15 O2	6	ND	ND	ND	ND	ND	157,000	ND	ND	ND	ND	ND	ND	135,000	283,000	ND	ND	ND	586,000	107,000	ND	193,000
Perfluorononanoic acid (PFNA); CAS 375-95-1	463.971	C9 H F17 O2	7	ND	ND	ND	ND	ND	717,000	ND	ND	ND	ND	ND	186,000	ND	230,000	159,000	ND	117,000	126,000	ND	ND	ND
Perfluorodecanoic acid (PFDA); CAS 335-76-2	513.9676	C10 H F19 O2	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	214,000	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PRDoDA); CAS 307-55-1	613.9591	C12 H F23 O2	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTrDA); CAS 376-06-7	713.9526	C14 H F27 O2	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonate (PFBS); CAS 375-73-5	299.951	C4 H F9 O3 S	11	ND	ND	ND	ND	ND	29,200	ND	ND	ND	ND	ND	ND	ND	413,000	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanesulfonate (PFPeS); CAS 2706-91-4	349.9471	C5 H F11 O3 S	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,300	ND	ND	ND	ND	919	ND	10,800	ND	ND	ND
Perfluoroheptanesulfonic acid (PFHpS); CAS 375-92-8	449.94	C7 F15 H O3 S	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	625	ND	ND	ND	ND	598	ND	18,800	ND	ND	4,670
Perfluorooctanesulfonate (PFOS); CAS 1763-23-1	499.9374	C8 H F17 O3 S	14	ND	ND	ND	ND	ND	61,000	ND	ND	ND	ND	ND	ND	450,000	444,000	ND	ND	ND	452,000	ND	ND	ND
Perfluorononanesulfonic acid (PFNS); CAS 68259-12-1	549.9322	C9 H F19 O3 S	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2:2 fluorotelomer alcohol; CAS 54949-74-5	164.0226	C4 H5 F5 O	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,890	ND	ND	ND	ND	4,490	ND	2,360	ND	ND	ND
3:2 Fluorotelomer alcohol; CAS 755-40-8	214.0232	C5 H5 F7 O	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2FtS); CAS 757124-72-4	327.9826	C6 H5 F9 O3 S	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FtS); CAS 27619-97-2	427.9751	C8 H5 F13 O3 S	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14,900	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FtS); CAS 39108-34-4	527.9677	C10 H5 F17 O3 S	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7:2 Fluorotelomer dihydrogen phosphate; CAS 37013-72-2	493.9763	C9 H6 F15 O4 P	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ClPFPECA 0,1 (Chloro-Perfluoro=Polyether-Carboxylate)	367.948	C8 CL F14 O4	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,950,000	ND	ND	ND	ND	1,530,000	ND	ND	ND	ND	ND
N,N-dimethyl-2H-perfluoroethanamine; CAS 1550-50-1	145.054	C4 H7 F4 N	23	ND	ND	21,100	ND	9,440	ND	ND	ND	ND	ND	27,900	ND	ND	ND	ND	27,200	ND	ND	ND	ND	ND
2H-Perfluoropropane 6.207	169.9969	C3 H F7	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ethyl 2,3,3,3-tetrafluoropropanoate; CAS 399-92-8	174.0275	C5 H6 F4 O2	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H,2H-Hexafluorocyclopentene; CAS 1005-73-8	176.0051	C5 H2 F6	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane; CAS 42415-18-9	206.0563	C6 H10 F4 O3	27	ND	ND	ND	ND	ND	9,930	ND	ND	6,920	ND	13,300	ND	6,880	ND	ND	16,800	ND	ND	ND	ND	6,690
2-Perfluoropropyl-2-propanol; CAS 355-22-6	227.0427	C6 H7 F7 O	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16,500	ND	ND	ND	ND	11,500	ND	ND	ND	ND	ND
5H-Perfluoropentanal; CAS 2648-47-7	229.9938	C5 H2 F8 O	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate; CAS 1513-60-6	236.035	C7 H6 F6 O2	30	ND	ND	ND	31,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37,300	ND	ND	35,500	ND	22,500	ND
2,2,3,3,4,4-Hexafluorobutyl 2-methylprop-2-enoate; CAS 45168-50-1	250.045	C8 H8 F6 O2	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene; CAS 54111-17-0	262.14	C14 H18 F4	32	ND	5,710	ND	ND	6,130	ND	ND	ND	7,610	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9,050
N-Methyl-N-trimethylsilylheptafluorobutyramide; CAS 53296-64-3	299.0625	C8 H12 F7 N O Si	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H-Perfluorohexane (C7 decarboxyl fragment)	319.9874	C6 H F13	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H,1H,5H-Perfluoro-1,5-pentanediol diacrylate; CAS 678-95-5	320.0495	C11 H10 F6 O4	35	ND	ND	ND	ND	ND	7,160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt	336.0603	C15 H10 F6 O2	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	577	ND	ND	ND	ND	ND
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate	345.9877	C7 H2 F12 O2	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl Fluoride; CAS 5927-65-1	347.9841	C7 H F13 O	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate; CAS 376-34-1	363.0126	C7 H5 F12 N O2	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
((Perfluorobutyl)ethyl)trimethoxysilane; CAS 85877-79-8	368.0558	C9 H13 F9 O3 Si	40	ND	ND	ND	5,170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Hydroperfluoroheptane; CAS 375-83-7	369.9833	C7 H F15	41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	122,000	ND	ND	ND	264,000	ND	ND	ND
decarboxyl PFOA fragment	369.9853	C7 H F15	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate; CAS 61915-92-2	378.0761	C12 H12 F10 O2	43	ND	ND	ND	21,900	ND	8,220	ND	ND	5,840	ND	ND	18,600	ND	ND	ND	ND	ND	31,400	ND	ND	ND
Tridecafluoroheptaneperoxoic acid; CAS 139702-34-4	379.9721	C7 H F13 O3	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C8H12F9NO4S	389.0297	C8 H12 F9 N O4 S	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Undecafluorocyclohexanemethanol dihydrogen phosphate; CAS 32582-74-4	391.9725	C7 H4 F11 O4 P	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
decarboxyl PFNA fragment	419.9811	C8 H F17	47	ND	ND	ND	ND	ND	302,000	ND	ND	ND	ND	ND	84,700	ND	102,000	68,700	ND	49,100	56,900	ND	ND	ND
Perfluoropentane sulfonamido amine; CAS 68555-78-2	434.0591	C10 H13 F11 N2 O2 S	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,780	ND	ND	ND	ND	1,160	ND	ND	ND	ND	ND
6:2 Fluorotelomer phosphate monoester; CAS 57678-01-0	443.9812	C8 H6 F13 O4 P	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C14H17F13O	448.1024	C14 H17 F13 O	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C11H6ClF13O2	451.9865	C11 H6 Cl F13 O2	51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C9H3F17O3	481.9771	C9 H3 F17 O3	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonamide (PFOSA); CAS 754-91-6	498.9501	C8 H2 F17 N O2 S	53	ND	ND	ND	ND	ND	7,530	ND	ND	ND	ND	ND	ND	6,710	16,100	ND	ND	ND	ND	ND	ND	10,400
11-H-Perfluoroundecanoic acid; CAS 1765-48-6	545.9735	C11 H2 F20 O2	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monoperfluorooctyl itaconate; CAS 230295-05-3	547.9887	C13 H5 F17 O4	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYFLGSID_880938; CAS 68957-57-3	575.9825	C11 H16 F11 I N2 O2 S	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl perfluoroundecanoate; CAS 203302-98-1	577.9789	C12 H3 F21 O2	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Henicosafluorodecanesulphonate (PFDS)	599.931	C10 H F21 O3 S	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1)	663.9548	C13 H F25 O2	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYFLGSID_880958; CAS 72494-14-5	682.3009	C33 H42 F8 N2 O4	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide; CAS 32687-76-6	689.9555	C14 H2 F24 O4	61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane; CAS 37486-69-4	949.9221	C17 H F35 O5	62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LEGEND		
Color	Peak Area Category	
ND	Non-detectable; peak area <3 times blanks average	236/245/231
	>3x Blank - 30,000	169/208/142
	30,000-50,000	214/233/142
	50,000 - 100,000	255/255/100
	100,000-400,000	255/217/102
	400,000 -1,000,000	255/167/59
	>1,000,000	255/125/125

New Jersey DEP Water Samples--NTA Analysis-- Non-tidal Surface Water

This worksheet sourced directly from MATCHED PFAS worksheet

NJDEP Data Report # 4 Table 4

This table is screened by: 3 x Standard Deviation of All Blanks

Tentatively Identified Compound	Monoisotopic Mass (g/mol)	Formula	Chemical Reference #	PFNSW 003	PFNSW 004	PFNSW DUP2	PFNSW 005	PFNSW 012	PFNSW 014	PFNSW 017	PFNSW 018	PFNSW DUP1	PFNSW 019	PFNSW 020	PFNSW 023	PFNSW 025
Perfluoropropanoic acid; CAS 422-64-0	163.9903	C3 H F5 O2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanoic acid (PFBA); CAS 375-22-4	213.9877	C4 H F7 O2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentanoic acid (PFPeA); CAS 2706-90-3	263.9844	C5 H F9 O2	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanoate (PFHxA); CAS 92612-52-7	313.9809	C6 H F11 O2	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoroheptanoic acid (PFHpA); CAS 375-85-9	363.9783	C7 H F13 O2	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanoic acid (PFOA); CAS 335-67-1	413.9734	C8 H F15 O2	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic acid (PFNA); CAS 375-95-1	463.971	C9 H F17 O2	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA); CAS 335-76-2	513.9676	C10 H F19 O2	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecanoic acid (PRDoDA); CAS 307-55-1	613.9591	C12 H F23 O2	9	ND	56,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTrDA); CAS 376-06-7	713.9526	C14 H F27 O2	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonate (PFBS); CAS 375-73-5	299.951	C4 H F9 O3 S	11	ND	ND	ND	ND	ND	ND	ND	38,200	43,500	ND	ND	ND	ND
Perfluoropentanesulfonate (PFPeS); CAS 2706-91-4	349.9471	C5 H F11 O3 S	12	3,080	ND	618	ND	807	ND	ND	30,900	36,900	ND	ND	1,330	1,080
Perfluoroheptanesulfonic acid (PFHpS); CAS 375-92-8	449.94	C7 F15 H O3 S	13	1,560	ND	ND	ND	694	ND	ND	7,260	10,200	744	ND	961	ND
Perfluorooctanesulfonate (PFOS); CAS 1763-23-1	499.9374	C8 H F17 O3 S	14	ND	49,500	ND	ND	ND	101,000	ND	210,000	231,000	ND	ND	ND	ND
Perfluorononanesulfonic acid (PFNS); CAS 68259-12-1	549.9322	C9 H F19 O3 S	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2:2 fluorotelomer alcohol; CAS 54949-74-5	164.0226	C4 H5 F5 O	16	5,580	ND	ND	ND	44,600	ND	ND	12,500	15,100	ND	ND	ND	ND
3:2 Fluorotelomer alcohol; CAS 755-40-8	214.0232	C5 H5 F7 O	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2FtS); CAS 757124-72-4	327.9826	C6 H5 F9 O3 S	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FtS); CAS 27619-97-2	427.9751	C8 H5 F13 O3 S	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FtS); CAS 39108-34-4	527.9677	C10 H5 F17 O3 S	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7:2 Fluorotelomer dihydrogen phosphate; CAS 37013-72-2	493.9763	C9 H6 F15 O4 P	21	ND	14,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ClPFPECA 0,1 (Chloro-Perfluoro=Polyether-Carboxylate)	367.948	C8 CL F14 O4	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N,N-dimethyl-2H-perfluoroethanamine; CAS 1550-50-1	145.054	C4 H7 F4 N	23	60,500	12,100	10,700	10,500	25,700	5,110	16,600	57,700	69,200	11,900	20,300	20,300	16,200
2H-Perfluoropropane 6.207	169.9969	C3 H F7	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ethyl 2,3,3,3-tetrafluoropropanoate; CAS 399-92-8	174.0275	C5 H6 F4 O2	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H,2H-Hexafluorocyclopentene; CAS 1005-73-8	176.0051	C5 H2 F6	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane; CAS 42415-18-9	206.0563	C6 H10 F4 O3	27	14,900	12,600	11,900	14,900	11,700	9,260	20,000	10,300	24,600	16,700	ND	11,700	11,200
2-Perfluoropropyl-2-propanol; CAS 355-22-6	227.0427	C6 H7 F7 O	28	ND	ND	ND	ND	ND	ND	ND	ND	596	ND	ND	ND	ND
5H-Perfluoropentanal; CAS 2648-47-7	229.9938	C5 H2 F8 O	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate; CAS 1513-60-6	236.035	C7 H6 F6 O2	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	23,300	ND	ND	ND
2,2,3,3,4,4-Hexafluorobutyl 2-methylprop-2-enoate; CAS 45168-50-1	250.045	C8 H8 F6 O2	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene; CAS 54111-17-0	262.14	C14 H18 F4	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Methyl-N-trimethylsilylheptafluorobutyramide; CAS 53296-64-3	299.0625	C8 H12 F7 N O Si	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H-Perfluorohexane (C7 decarboxyl fragment)	319.9874	C6 H F13	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate; CAS 678-95-5	320.0495	C11 H10 F6 O4	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt	336.0603	C15 H10 F6 O2	36	546	ND	ND	ND	3,130	ND	ND	16,400	15,100	ND	12,800	968	ND
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate	345.9877	C7 H2 F12 O2	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl Fluoride; CAS 5927-65-1	347.9841	C7 H F13 O	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate; CAS 376-34-1	363.0126	C7 H5 F12 N O2	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
{(Perfluorobutyl)ethyl}trimethoxysilane; CAS 85877-79-8	368.0558	C9 H13 F9 O3 Si	40	ND	ND	5,170	4,490	ND	ND	7,630	ND	5,000	4,800	ND	4,830	6,210
1-Hydroperfluoroheptane; CAS 375-83-7	369.9833	C7 H F15	41	ND	195,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
decarboxyl PFOA fragment	369.9853	C7 H F15	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate; CAS 61915-92-2	378.0761	C12 H12 F10 O2	43	ND	7,720	ND	ND	ND	ND	ND	ND	5,850	31,600	ND	ND	ND
Tridecafluoroheptaneperoxoic acid; CAS 139702-34-4	379.9721	C7 H F13 O3	44	ND	1,990	ND	ND	132,000	ND	ND	ND	ND	ND	ND	ND	1,130
C8H12F9NO4S	389.0297	C8 H12 F9 N O4 S	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Undecafluorocyclohexanemethanol dihydrogen phosphate; CAS 32582-74-4	391.9725	C7 H4 F11 O4 P	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
decarboxyl PFNA fragment	419.9811	C8 H F17	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentane sulfonamido amine; CAS 68555-78-2	434.0591	C10 H13 F11 N2 O2 S	48	3,970	4,320	11,000	6,700	4,200	9,380	ND	ND	487	ND	427	13,800	2,810
6:2 Fluorotelomer phosphate monoester; CAS 57678-01-0	443.9812	C8 H6 F13 O4 P	49	ND	20,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C14H17F13O	448.1024	C14 H17 F13 O	50	ND	ND	ND	795	ND	ND	ND	ND	ND	30,200	ND	7,860	ND
C11H6ClF13O2	451.9865	C11 H6 Cl F13 O2	51	ND	98,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C9H3F17O3	481.9771	C9 H3 F17 O3	52	ND	96,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonamide (PFOSA); CAS 754-91-6	498.9501	C8 H2 F17 N O2 S	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-H-Perfluoroundecanoic acid; CAS 1765-48-6	545.9735	C11 H2 F20 O2	54	ND	694,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monoperfluorooctyl itaconate; CAS 230295-05-3	547.9887	C13 H5 F17 O4	55	ND	6,880	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYFLGSID_880938; CAS 68957-57-3	575.9825	C11 H16 F11 I N2 O2 S	56	ND	4,270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl perfluoroundecanoate; CAS 203302-98-1	577.9789	C12 H3 F21 O2	57	ND	22,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Henicosafluorodecanesulphonate (PFDS)	599.931	C10 H F21 O3 S	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1)	663.9548	C13 H F25 O2	59	ND	3,900,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYFLGSID_880958; CAS 72494-14-5	682.3009	C33 H42 F8 N2 O4	60	ND	758,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide; CAS 32687-76-6	689.9555	C14 H2 F24 O4	61	ND	227,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane; CAS 37486-69-4	949.9221	C17 H F35 O5	62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LEGEND		
Color	Peak Area Category	
ND	Non-detectable; peak area <5 times method or trip blank	236/245/231
	>5x Blank - 30,000	169/208/142
	30,000-50,000	214/233/142
	50,000 - 100,000	255/255/100
	100,000-400,000	255/217/102
	400,000 -1,000,000	255/167/59
	>1,000,000	255/125/125

New Jersey DEP Water Sample--NTA Analysis--Groundwater Wells

This worksheet sourced directly from MATCHED PFAS worksheet

NJDEP Data Report # 4 Table 5

This table is screened by: 3 x Standard Deviation of All Blanks

8,530,000 Maximum

Tentatively Identified Compound	Monoisotopic Mass (g/mol)	Formula	Chemical Reference #	FPPW 001	FPPW 001 dup	PFIND 026	PFIND 026 DUP	PFPPW 002	PFPPW 002 DUP	PFPW 002	PFPW 003	PFPW 004	PFPW 005	PFPW 007	PFPW 008	DUP	PFPW 009	PFPW 010	PFPW DUP2	PFPW 011	PFPW 012	PFPW DUP1	PFPW 013D	PFPW 013I	PFPW 013S	PFPW 014	PFPW 015	PFPW 016	PFPW 017	PFPW 019	PFPW 020	PFPW 021	PFPW 022	PFPW 024	PFPW 025
Perfluoropropanoic acid; CAS 422-64-0	163.9903	C3 H F5 O2	1	58,600	65,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	94,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanoic acid (PFBA); CAS 375-22-4	213.9877	C4 H F7 O2	2	65,700	60,500	118,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140,000	ND	ND	ND
Perfluoropentanoic acid (PFPeA); CAS 2706-90-3	263.9844	C5 H F9 O2	3	108,000	105,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	141,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	187,000	ND	ND	ND
Perfluorohexanoate (PFHxA); CAS 92612-52-7	313.9809	C6 H F11 O2	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	187,000	ND	ND	ND
Perfluoroheptanoic acid (PFHpA); CAS 375-85-9	363.9783	C7 H F13 O2	5	403,000	406,000	96,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	188,000	ND	ND	ND
Perfluorooctanoic acid (PFOA); CAS 335-67-1	413.9734	C8 H F15 O2	6	8,410,000	8,510,000	715,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	158,000	ND	ND	ND
Perfluorononanoic acid (PFNA); CAS 375-95-1	463.971	C9 H F17 O2	7	6,980,000	6,820,000	1,710,000	ND	133,000	178,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorodecanoic acid (PFDA); CAS 335-76-2	513.9676	C10 H F19 O2	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39,500	ND	ND	ND
Perfluorododecanoic acid (PRDoDA); CAS 307-55-1	613.9591	C12 H F23 O2	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorotetradecanoic acid (PFTrDA); CAS 376-06-7	713.9526	C14 H F27 O2	10	ND	ND	ND	3,020,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorobutanesulfonate (PFBS); CAS 375-73-5	299.951	C4 H F9 O3 S	11	73,000	123,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36,300	220,000	30,700	ND	ND
Perfluoropentanesulfonate (PFPeS); CAS 2706-91-4	349.9471	C5 H F11 O3 S	12	ND	ND	2,660	ND	2,170	2,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,810	47,400	275,000	39,200	ND	ND
Perfluoroheptanesulfonic acid (PFHpS); CAS 375-92-8	449.94	C7 F15 H O3 S	13	ND	ND	1,060	ND	1,160	1,750	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49,700	268,000	38,600	ND	ND
Perfluorooctanesulfonate (PFOS); CAS 1763-23-1	499.9374	C8 H F17 O3 S	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96,800	1,020,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	61,200	92,600	294,000	172,000	ND	ND
Perfluorononanesulfonic acid (PFNS); CAS 68259-12-1	549.9322	C9 H F19 O3 S	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17,000	68,000	13,000	ND	ND
2:2 fluorotelomer alcohol; CAS 54949-74-5	164.0226	C4 H5 F5 O	16	ND	ND	3,310	ND	ND	ND	ND	39,300	ND	166,000	4,560	ND	4,010	5,360	ND	ND	ND	5,180	ND	ND	ND	ND	19,100	ND	ND	10,000	8,080	ND	ND	ND	ND	ND
3:2 Fluorotelomer alcohol; CAS 755-40-8	214.0232	C5 H5 F7 O	17	50,200	40,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4:2 Fluorotelomer sulfonic acid (4:2FtS); CAS 757124-72-4	327.9826	C6 H5 F9 O3 S	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,820	39,000	6,650	ND	ND
6:2 Fluorotelomer sulfonic acid (6:2FtS); CAS 27619-97-2	427.9751	C8 H5 F13 O3 S	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22,900	ND	ND	ND	ND	ND	ND	ND	ND	40,000	ND	ND	ND
8:2 Fluorotelomer sulfonic acid (8:2FtS); CAS 39108-34-4	527.9677	C10 H5 F17 O3 S	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12,800	ND	ND	ND
7:2 Fluorotelomer dihydrogen phosphate; CAS 37013-72-2	493.9763	C9 H6 F15 O4 P	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIPFPECA 0,1 (Chloro-Perfluoro-Polyether-Carboxylate)	367.948	C8 Cl F14 O4	22	ND	ND	ND	ND	ND	ND	123,000	214,000	ND	ND	431,000	ND	2,240,000	4,140,000	2,810,000	3,050,000	4,030,000	613,000	ND	3,520,000	4,520,000	ND	467,000	ND	780,200	881,000	676,200	ND	ND	ND	ND	ND
N,N-dimethyl-2H-perfluoroethanamine; CAS 1550-50-1	145.054	C4 H7 F4 N	23	ND	ND	25,500	27,700	1,190	1,650	ND	27,800	15,500	232,000	44,700	ND	21,200	29,300	32,900	19,800	17,000	36,200	ND	22,800	27,600	ND	87,000	19,900	15,400	20,300	23,200	ND	ND	ND	ND	ND
2H-Perfluoropropane 6.207	169.9969	C3 H F7	24	49,100	49,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ethyl 2,3,3,3-tetrafluoropropanoate; CAS 399-92-8	174.0275	C5 H6 F4 O2	25	47,500	57,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H,2H-Hexafluorocyclopentene; CAS 1005-73-8	176.0051	C5 H2 F6	26	48,800	58,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane; CAS 42415-18-9	206.0563	C6 H10 F4 O3	27	ND	ND	23,600	ND	20,300	14,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12,400	ND	ND	ND	ND	ND	ND
2-Perfluoropropyl-2-propanol; CAS 355-22-6	227.0427	C6 H7 F7 O	28	ND	ND	ND	ND	ND	ND	ND	8,190	ND	ND	11,700	ND	13,500	24,700	24,300	30,500	36,700	15,800	ND	23,200	19,200	ND	ND	ND	15,300	12,400	16,200	ND	ND	ND	ND	ND
5H-Perfluoropentanal; CAS 2648-47-7	229.9938	C5 H2 F8 O	29	ND	ND	ND	ND	ND	ND	174,000	373,000	359,000	284,000	254,000	252,000	360,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	127,000	ND	ND	ND	ND	ND	ND
Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate; CAS 1513-60-6	236.035	C7 H6 F6 O2	30	43,900	63,900	51,600	30,800	ND	ND	36,200	23,300	41,200	32,100	29,400	ND	34,700	ND	ND	ND	25,200	ND	ND	27,400	ND	31,900	ND	ND	ND	25,900	31,900	ND	ND	ND	ND	ND
2,2,3,3,4,4-Hexafluorobutyl 2-methylprop-2-enoate; CAS 45168-50-1	250.045	C8 H8 F6 O2	31	267,000	294,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene; CAS 54111-17-0	262.14	C14 H18 F4	32	ND	ND	10,100	ND	6,370	5,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,480	ND	6,330	ND	ND	ND	ND
N-Methyl-N-trimethylsilylheptafluorobutyramide; CAS 53296-64-3	299.0625	C8 H12 F7 N O Si	33	29,700	26,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H-Perfluorohexane (C7 decarboxyl fragment)	319.9874	C6 H F13	34	149,000	156,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate; CAS 678-95-5	320.0495	C11 H10 F6 O4	35	ND	ND	ND	ND	ND	ND	26,500	23,400	26,500	18,500	23,600	ND	25,600	14,900	15,400	ND	15,300	11,800	ND	6,920	ND	8,600	11,900	10,100	8,020	15,100	9,470	10,800	ND	ND	ND	ND
Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt	336.0603	C15 H10 F6 O2	36	ND	ND	ND	17,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate	345.9877	C7 H2 F12 O2	37	ND	ND	ND	515,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl Fluoride; CAS 5927-65-1	347.9841	C7 H F13 O	38	54,600	34,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate; CAS 376-34-1	363.0126	C7 H5 F12 N O2	39	6,360	15,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
[(Perfluorobutyl)ethyl]trimethoxysilane; CAS 85877-79-8	368.0558	C9 H13 F9 O3 Si	40	ND	ND	ND	8,930	ND	ND	ND	ND	ND	6,330	7,310	ND	8,330	ND	4,900	6,220	6,040	4,140	ND	ND	ND	ND	10,500	4,990	4,450	4,600	ND	ND	ND	ND	ND	ND
1-Hydroperfluoroheptane; CAS 375-83-7	369.9833	C7 H F15	41	ND	ND	288,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
decarboxyl PFOA fragment	369.9853	C7 H F15	42	4,080,000	4,170,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate; CAS 61915-92-2	378.0761	C12 H12 F10 O2	43	ND	ND	ND	17,200	ND	ND	14,000	ND	18,000	ND	ND	ND	7,930	ND	ND	ND	10,900	6,820	ND	ND	ND	19,500	ND	6,680	8,470	ND	12,300	ND	ND	ND	ND
Tridecafluoroheptaneperoxoic acid; CAS 139702-34-4	379.9721	C7 H F13 O3	44	ND	ND	ND	6,930	ND	1,110	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,710	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C8H12F9NO4S	389.0297	C8 H12 F9 N O4 S	45	ND	ND	7,730	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Undecafluorocyclohexanemethanol dihydrogen phosphate; CAS 32582-74-4	391.9725	C7 H4 F11 O4 P	46	44,200	44,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
decarboxyl PFNA fragment	419.9811	C8 H F17	47	2,750,000	2,710,000	566,000	ND	53,900	71,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoropentane sulfonamido amine; CAS 68555-78-2	434.0591	C10 H13 F11 N2 O2 S	48	ND	ND	2,103	ND	ND	ND	ND	ND	10,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,360	10,500	ND	ND	ND	ND	ND	ND	ND	ND
6:2 Fluorotelomer phosphate monoester; CAS 57678-01-0	443.9812	C8 H6 F13 O4 P	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C14H17F13O	448.1024	C14 H17 F13 O	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C11H6ClF13O2	451.9865	C11 H6 Cl F13 O2	51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C9H3F17O3	481.9771	C9 H3 F17 O3	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorooctanesulfonamide (PFOSA); CAS 754-91-6	498.9501	C8 H2 F17 N O2 S	53	256,000	266,000	12,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10,700	ND	ND	ND
11-H-Perfluoroundecanoic acid; CAS 1765-48-6	545.9735	C11 H2 F20 O2	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monoperfluorooctyl itaconate; CAS 230295-05-3	547.9887	C13 H5 F17 O4	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYFLGSID_880938; CAS 68957-57-3	575.9825	C11 H16 F11 N2 O2 S	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl perfluoroundecanoate; CAS 203302-98-1	577.9789	C12 H3 F21 O2	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Henicosafluorodecanesulphonate (PFDS)	599.931	C10 H F21 O3 S	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,750	22,800	5,130	ND
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1)	663.9548	C13 H F25 O2	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYFLGSID_880958; CAS 72494-14-5	682.3009	C33 H42 F8 N2 O4	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide; CAS 32687-76-6	689.9555	C14 H2 F24 O4	61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane; CAS 37486-69-4	949.9221	C17 H F35 O5	62	55,700	54,100	13,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LEGEND		
Color	Peak Area Category	
ND	Non-detectable; peak area <5 times method or trip blank	236/245/231
	>5x Blank - 30,000	169/208/142
	30,000-50,000	214/233/142
	50,000 - 100,000	255/255/100
	100,000-400,000	255/217/102
	400,000 -1,000,000	255/167/59
	>1,000,000	255/125/125

New Jersey DEP Water Samples--NTA Analysis--

MATCHED PFAS > Non-detect On

This worksheet sourced directly from Scre

Note: 3 compounds have no detection af

Compoun

Chemical Reference #	Tentatively Identified Compound
1	Perfluoropropanoic acid; CAS 422-64-0
2	Perfluorobutanoic acid (PFBA); CAS 375-22-4
3	Perfluoropentanoic acid (PFPeA); CAS 2706-90-3
4	Perfluorohexanoate (PFHxA); CAS 92612-52-7
5	Perfluoroheptanoic acid (PFHpA); CAS 375-85-9
6	Perfluorooctanoic acid (PFOA); CAS 335-67-1
7	Perfluorononanoic acid (PFNA); CAS 375-95-1
8	Perfluorodecanoic acid (PFDA); CAS 335-76-2
9	Perfluorododecanoic acid (PRDoDA); CAS 307-55-1
10	Perfluorotetradecanoic acid (PFTrDA); CAS 376-06-
11	Perfluorobutanesulfonate (PFBS); CAS 375-73-5
12	Perfluoropentanesulfonate (PFPeS); CAS 2706-91-4
13	Perfluoroheptanesulfonic acid (PFHpS); CAS 375-92
14	Perfluorooctanesulfonate (PFOS); CAS 1763-23-1
15	Perfluorononanesulfonic acid (PFNS); CAS 68259-1
16	2:2 fluorotelomer alcohol; CAS 54949-74-5
17	3:2 Fluorotelomer alcohol; CAS 755-40-8
18	4:2 Fluorotelomer sulfonic acid (4:2FtS); CAS 75712
19	6:2 Fluorotelomer sulfonic acid (6:2FtS); CAS 27619
20	8:2 Fluorotelomer sulfonic acid (8:2FtS); CAS 39108
21	7:2 Fluorotelomer dihydrogen phosphate; CAS 370
22	ClPFPECA 0,1 (Chloro-Perfluoro=Polyether-Carboxy
23	N,N-dimethyl-2H-perfluoroethanamine; CAS 1550-
24	2H-Perfluoropropane 6.207
25	ethyl 2,3,3,3-tetrafluoropropanoate; CAS 399-92-8
26	1H,2H-Hexafluorocyclopentene; CAS 1005-73-8
27	1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane; CAS 4
28	2-Perfluoropropyl-2-propanol; CAS 355-22-6
29	5H-Perfluoropentanal; CAS 2648-47-7
30	Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate; (
31	2,2,3,3,4,4-Hexafluorobutyl 2-methylprop-2-enoate
32	1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenze
33	N-Methyl-N-trimethylsilylheptafluorobutyramide; (

34	1H-Perfluorohexane (C7 decarboxyl fragment)
35	1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate;
36	Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethy
37	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluorohep
38	2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl Fluor
39	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluorohep
40	((Perfluorobutyl)ethyl)trimethoxysilane; CAS 85877
41	1-Hydroperfluoroheptane; CAS 375-83-7
42	decarboxyl PFOA fragment
43	3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-
44	Tridecafluoroheptaneperoxoic acid; CAS 139702-34
45	C8H12F9NO4S
46	Undecafluorocyclohexanemethanol dihydrogen ph
47	decarboxyl PFNA fragment
48	Perfluoropentane sulfonamido amine; CAS 68555-7
49	6:2 Fluorotelomer phosphate monoester; CAS 5767
50	C14H17F13O
51	C11H6ClF13O2
52	C9H3F17O3
53	Perfluorooctanesulfonamide (PFOSA); CAS 754-91-
54	11-H-Perfluoroundecanoic acid; CAS 1765-48-6
55	Monoperfluorooctyl itaconate; CAS 230295-05-3
56	POLYFLGSID_880938; CAS 68957-57-3
57	Methyl perfluoroundecanoate; CAS 203302-98-1
58	Henicosafluorodecanesulphonate (PFDS)
59	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,1
60	POLYFLGSID_880958; CAS 72494-14-5
61	Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl)
62	2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl

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ened Data worksheet

ter rounding and noise detection limit applied. These

d Characteristics

Monoisotopic Mass (g/mol)	Formula	Mass Defect	Retention Time	Score
163.9903	C3 H F5 O2	0.99	0.9560007	0
213.9877	C4 H F7 O2	0.988	1.5449986	0
263.9844	C5 H F9 O2	0.984	4.279	0
313.9809	C6 H F11 O2	0.981	5.506996	0
363.9783	C7 H F13 O2	0.978	6.208006	0
413.9734	C8 H F15 O2	0.973	6.710999	0
463.971	C9 H F17 O2	0.971	7.1099916	0
513.9676	C10 H F19 O2	0.968	7.476007	0
613.9591	C12 H F23 O2	0.959	8.333007	0
713.9526	C14 H F27 O2	0.953	13.857994	0
299.951	C4 H F9 O3 S	0.951	4.669004	0
349.9471	C5 H F11 O3 S	0.947	5.609003	94.7
449.94	C7 F15 H O3 S	0.94	6.7130065	0
499.9374	C8 H F17 O3 S	0.937	7.0980024	0
549.9322	C9 H F19 O3 S	0.932	7.479999	0
164.0226	C4 H5 F5 O	0.023	1.0989991	0
214.0232	C5 H5 F7 O	0.023	0.189	0
327.9826	C6 H5 F9 O3 S	0.983	5.3649964	0
427.9751	C8 H5 F13 O3 S	0.975	6.6440024	0
527.9677	C10 H5 F17 O3 S	0.968	7.466003	0
493.9763	C9 H6 F15 O4 P	0.976	7.362	0
367.948	C8 CL F14 O4	0.948	7.0219975	0
145.054	C4 H7 F4 N	0.054	3.1439993	0
169.9969	C3 H F7	0.997	0	40.4
174.0275	C5 H6 F4 O2	0.028	0	79.6
176.0051	C5 H2 F6	0.005	0	83.2
206.0563	C6 H10 F4 O3	0.056	1.3320006	0
227.0427	C6 H7 F7 O	0.043	2.2510023	0
229.9938	C5 H2 F8 O	0.994	1.0510005	0
236.035	C7 H6 F6 O2	0.035	0.6969995	0
250.045	C8 H8 F6 O2	0.045	0	88
262.14	C14 H18 F4	0.14	4.5780025	0
299.0625	C8 H12 F7 N O Si	0.063	1.4209992	0

319.9874	C6 H F13	0.987	0	84
320.0495	C11 H10 F6 O4	0.05	1.335999	0
336.0603	C15 H10 F6 O2	0.06	4.8970027	26.1
345.9877	C7 H2 F12 O2	0.988	5.140998	0
347.9841	C7 H F13 O	0.984	0	60
363.0126	C7 H5 F12 N O2	0.013	0	98.1
368.0558	C9 H13 F9 O3 Si	0.056	0.5779994	0
369.9833	C7 H F15	0.983	6.7100005	0
369.9853	C7 H F15	0.985	0	36
378.0761	C12 H12 F10 O2	0.076	0.6650007	0
379.9721	C7 H F13 O3	0.972	6.3250055	0
389.0297	C8 H12 F9 N O4 S	0.03	6.3709993	0
391.9725	C7 H4 F11 O4 P	0.973	0	97.3
419.9811	C8 H F17	0.981	7.107996	0
434.0591	C10 H13 F11 N2 O2 S	0.059	4.2239995	0
443.9812	C8 H6 F13 O4 P	0.981	6.976007	67.7
448.1024	C14 H17 F13 O	0.102	4.0610027	0
451.9865	C11 H6 Cl F13 O2	0.986	6.7650084	0
481.9771	C9 H3 F17 O3	0.977	7.1510005	0
498.9501	C8 H2 F17 N O2 S	0.95	6.704997	0
545.9735	C11 H2 F20 O2	0.973	7.153009	0
547.9887	C13 H5 F17 O4	0.989	7.713007	0
575.9825	C11 H16 F11 I N2 O2 S	0.982	7.043005	0
577.9789	C12 H3 F21 O2	0.979	7.286006	0
599.931	C10 H F21 O3 S	0.931	7.848004	0
663.9548	C13 H F25 O2	0.955	9.129009	0
682.3009	C33 H42 F8 N2 O4	0.301	13.301013	0
689.9555	C14 H2 F24 O4	0.956	6.382997	0
949.9221	C17 H F35 O5	0.922	7.001	0

are removed to the bottom of the MATCHED PFAS and are not reported.

Annotations

Perfluoropropanoic acid [C3 H F5 O2, tgt=, overall=81.63, db=81.63]
Perfluorobutanoic acid [C4 H F7 O2, tgt=, overall=85.74, db=85.74]
Perfluoropentanoic acid [C5 H F9 O2, tgt=, overall=89.05, db=89.05]
Sodium perfluorohexanoate [C6 H F11 O2, tgt=, overall=83.07, db=83.07]
Perfluoroheptanoic acid [C7 H F13 O2, tgt=, overall=97.20, db=97.20]
Perfluorooctanoic acid [C8 H F15 O2, tgt=, overall=97.22, db=97.22]
Perfluorononanoic acid [C9 H F17 O2, tgt=, overall=93.50, db=93.50]
Perfluorodecanoic acid [C10 H F19 O2, tgt=, overall=84.98, db=84.98]
Perfluorododecanoic acid [C12 H F23 O2, tgt=, overall=81.49, db=81.49]
Perfluorotetradecanoic acid [C14 H F27 O2, tgt=, overall=98.08, db=98.08]
Potassium perfluorobutanesulfonate [C4 H F9 O3 S, tgt=, overall=70.67, db=70.67]
Potassium perfluoropentanesulfonate [C5 H F11 O3 S, tgt=, overall=90.25, db=90.25]
C7F15HO3S [C7 F15 H O3 S, tgt=, overall=94.71, db=94.71]
Potassium perfluorooctanesulfonate [C8 H F17 O3 S, tgt=, overall=99.17, db=99.17]
Perfluorononanesulfonic acid [C9 H F19 O3 S, tgt=, overall=98.06, db=98.06]
2:2 fluorotelomer alcohol [C4 H5 F5 O, tgt=, overall=55.53, db=55.53]
3:2 Fluorotelomer alcohol [C5 H5 F7 O, tgt=, overall=66.72, db=66.72]
4:2 Fluorotelomer sulfonic acid [C6 H5 F9 O3 S, tgt=, overall=94.20, db=94.20]
6:2 Fluorotelomer sulfonic acid [C8 H5 F13 O3 S, tgt=, overall=99.58, db=99.58]
8:2 Fluorotelomer sulfonic acid [C10 H5 F17 O3 S, tgt=, overall=96.60, db=96.60]
7:2 Fluorotelomer dihydrogen phosphate [C9 H6 F15 O4 P, tgt=, overall=68.82, db=68.82]
Analyst ID
N,N-dimethyl-2H-perfluoroethanamine [C4 H7 F4 N, tgt=, overall=48.90, db=48.90]
0
0
0
1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane [C6 H10 F4 O3, tgt=, overall=40.39, db=40.39]
2-Perfluoropropyl-2-propanol [C6 H7 F7 O, tgt=, overall=67.66, db=67.66]
5H-Perfluoropentanal [C5 H2 F8 O, tgt=, overall=46.85, db=46.85]
Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate [C7 H6 F6 O2, tgt=, overall=66.38, db=66.38]
0
1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene [C14 H18 F4, tgt=, overall=49.80, db=49.80]
N-Methyl-N-trimethylsilylheptafluorobutyramide [C8 H12 F7 N O Si, tgt=, overall=34.45, db=34.45]

0

1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate [C11 H10 F6 O4, tgt=, overall=80.68, db=80.68]

Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt [C15 H10 F6 O2, tgt=, overall=74.18, db=74.18]

Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate [C7 H2 F12 O2, tgt=, overall=86.86, db=86.86]

0

0

((Perfluorobutyl)ethyl)trimethoxysilane [C9 H13 F9 O3 Si, tgt=, overall=26.94, db=26.94]

1-Hydroperfluoroheptane [C7 H F15, tgt=, overall=99.49, db=99.49]

0

3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate [C12 H12 F10 O2, tgt=, overall=48.88, db=48.88]

Tridecafluoroheptaneperoxoic acid [C7 H F13 O3, tgt=, overall=84.70, db=84.70]

C8H12F9NO4S [C8 H12 F9 N O4 S, tgt=, overall=36.47, db=36.47]

0

8H-Perfluorooctane [C8 H F17, tgt=, overall=97.58, db=97.58]

Perfluoropentane sulfonamido amine [C10 H13 F11 N2 O2 S, tgt=, overall=26.08, db=26.08]

6:2 Fluorotelomer phosphate monoester [C8 H6 F13 O4 P, tgt=, overall=69.52, db=69.52]

C14H17F13O [C14 H17 F13 O, tgt=, overall=25.24, db=25.24]

C11H6ClF13O2 [C11 H6 Cl F13 O2, tgt=, overall=41.46, db=41.46]

C9H3F17O3 [C9 H3 F17 O3, tgt=, overall=57.39, db=57.39]

Perfluorooctanesulfonamide [C8 H2 F17 N O2 S, tgt=, overall=63.71, db=63.71]

11-H-Perfluoroundecanoic acid [C11 H2 F20 O2, tgt=, overall=97.44, db=97.44]

Monoperfluorooctyl itaconate [C13 H5 F17 O4, tgt=, overall=58.85, db=58.85]

POLYFLGSID_880938 [C11 H16 F11 I N2 O2 S, tgt=, overall=53.22, db=53.22]

Methyl perfluoroundecanoate [C12 H3 F21 O2, tgt=, overall=55.29, db=55.29]

Potassium henicosafluorodecanesulphonate [C10 H F21 O3 S, tgt=, overall=96.50, db=96.50]

, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1) [C13 H F25 O2, tgt=, overall=9

POLYFLGSID_880958 [C33 H42 F8 N2 O4, tgt=, overall=83.10, db=83.10]

Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide [C14 H2 F24 O4, tgt=, overall=96.07, db=96.07]

2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane [C17 H F35 O5, tgt=, overall=70.91, db=70.91]

Minimum Detection Level is set at **3**

		Sample Abundance	
General Classification	**At least 1 sample>noise**	**Count # Samples > ST DEV**	**Count Samples >50,000**
Matched PFAS	Yes	13	5
Matched PFAS	Yes	18	7
Matched PFAS	Yes	22	10
Matched PFAS	Yes	19	10
Matched PFAS	Yes	31	10
Matched PFAS	Yes	17	15
Matched PFAS	Yes	18	15
Matched PFAS	Yes	8	1
Matched PFAS	Yes	67	1
Matched PFAS	Yes	42	64
Matched PFAS	Yes	26	4
Matched PFAS	Yes	67	1
Matched PFAS	Yes	67	1
Matched PFAS	Yes	40	13
Matched PFAS	Yes	67	1
Matched PFAS	Yes	21	1
Matched PFAS	Yes	67	1
Matched PFAS	Yes	67	0
Matched PFAS	Yes	14	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	22	20
Matched PFAS	Yes	67	5
Matched PFAS	Yes	67	0
Matched PFAS	Yes	67	1
Matched PFAS	Yes	67	1
Matched PFAS	Yes	27	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	11	10
Matched PFAS	Yes	43	2
Matched PFAS	Yes	67	2
Matched PFAS	Yes	14	0
Matched PFAS	Yes	20	0

Matched PFAS	Yes	67	2
Matched PFAS	Yes	26	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	45	56
Matched PFAS	Yes	67	1
Matched PFAS	Yes	67	0
Matched PFAS	Yes	27	0
Matched PFAS	Yes	16	11
Matched PFAS	Yes	2	2
Matched PFAS	Yes	31	0
Matched PFAS	Yes	9	1
Matched PFAS	Yes	67	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	19	10
Matched PFAS	Yes	67	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	2	1
Matched PFAS	Yes	2	1
Matched PFAS	Yes	9	2
Matched PFAS	Yes	2	43
Matched PFAS	Yes	67	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	1	0
Matched PFAS	Yes	67	0
Matched PFAS	Yes	48	48
Matched PFAS	Yes	18	10
Matched PFAS	Yes	2	2
Matched PFAS	Yes	67	2

x Standard Deviation of All Blanks

Characteristics

Minimum Noise Level	MAX of Samples	Standard Deviation
41,184	94,780	13,728
60,415	333,455	20,138
81,518	646,453	27,173
96,805	741,596	32,268
60,776	407,983	20,259
102,777	8,531,606	34,259
107,937	6,938,530	35,979
29,837	214,280	9,946
1	56,591	0
2,561,631	3,017,245	853,877
28,972	413,415	9,657
1	275,071	0
1	267,850	0
40,364	1,024,710	13,455
1	68,024	0
1,902	166,337	634
1	50,180	0
1	38,980	0
14,217	40,004	4,739
1	12,763	0
1	14,472	0
105,465	4,521,556	35,155
1	232,197	0
1	49,716	0
1	57,011	0
1	58,525	0
5,920	24,612	1,973
1	36,729	0
92,290	372,691	30,763
22,516	63,903	7,505
1	294,378	0
4,969	10,084	1,656
13,495	29,670	4,498

1	155,697	0
6,188	26,489	2,063
1	17,754	0
462,991	514,522	154,330
1	54,577	0
1	15,267	0
4,095	10,498	1,365
111,057	287,703	37,019
24,957	4,120,686	8,319
4,539	31,576	1,513
1,011	131,830	337
1	7,728	0
1	44,410	0
46,898	2,745,671	15,633
1	13,769	0
1	20,522	0
1	30,151	0
50,907	98,311	16,969
68,596	96,163	22,865
5,380	265,722	1,793
358,515	694,475	119,505
1	6,877	0
1	4,272	0
12,548	22,247	4,183
1	22,829	0
109,762	3,903,056	36,587
126,156	758,125	42,052
107,605	226,714	35,868
1	55,686	0

Methods or Laboratory Blanks								Field Blanks				
DB	DB2	DB3	DB4	DB5	DB6	DB7	DB8	PFNSW TB	FPPW001 BB	PFPW TB1	PFPW TB2	PFTSW FB1
1	1	1	1	1	1	1	1	1	1	43,454	33,639	1
1	1	1	1	1	1	1	1	2,091	68,417	35,546	30,704	306
1	1	1	1	1	1	1	1	4,404	1	100,342	18,567	3,325
1	1	1	1	1	1	3,605	5,493	1,844	1	117,255	24,574	944
1	1	1	1	1	1	43,576	11,290	4,645	8,085	68,243	18,171	1,716
1	1	1	1	1	1	24,554	8,984	1,282	25,392	109,307	31,043	1,089
1	1	1	1	1	1	25,654	15,848	1	1	18,116	17,741	1
1	1	1	1	1	1	38,245	1	1	1	8,085	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1,659,709	1,641,492	1,628,463	1,587,795	1,734,262	2,640,471	1,592,684	62,063	1	1,758,630	1,613,454	######
1	1	1	1	1	1	1	1	2,698	25,145	8,012	1	29,404
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	13,151	12,748	12,846	14,190	14,204	47,058	18,789	1,906	1	35,707	14,986	2,542
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	2,456	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	18,355	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	70,822	65,193	65,584	62,228	65,144	96,208	74,525	1	1	1	1	22,693
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	7,643
1	1	1	1	1	1	1	1	1	1	1	1	1
1	31,302	1	1	1	1	1	1	1	1	1	1	1
1	11,024	9,930	8,480	8,693	8,909	9,958	9,563	1	1	9,045	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	9,411	1	8,745
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	7,442	1	3,488
1	1	1	1	1	1	1	1	1	1	1	1	1
1	227,726	206,627	178,248	153,597	210,977	557,476	456,638	35,919	1	180,583	181,568	53,593
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	2,739	4,010	1	2,969	1	1	1	1	1

1	1	12,011	1	1	27,777	134,433	41,640	1	1	65,485	27,457	4,588
1	1	1	1	1	1	1	1	1	32,220	1	1	1
1	1	1	2,052	1	1	5,638	1	1	1	1	1	1
1	1	1	1	1	1	1	1	962	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	10,644	6,814	1	1	8,189	8,136	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	5,862	1	9,732	66,798	14,859	2,201	1	5,794	1	2,738
1	1	10,069	1	1	13,896	89,503	17,250	2,694	1	1	1	2,207
1	1	1	1	1	1	1	1	1	1	6,947	1	1
1	44,032	69,082	65,635	63,126	78,394	493,865	97,715	12,576	1	60,559	51,864	12,188
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	16,201	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
1	71,924	74,616	79,918	70,216	71,334	94,607	84,059	1	1	75,254	75,154	7,152
1	29,672	29,869	29,320	34,511	37,550	180,941	53,448	26,415	1	38,399	40,552	62,730
1	13,007	17,849	1	1	17,650	143,544	28,564	4,827	1	16,432	14,318	4,575
1	1	1	1	1	1	1	1	1	1	1	1	1

PFTSW TB1	PFTSW TB2
12,311	1
22,257	823
43,629	4,087
56,108	1,323
32,530	2,311
88,713	1,622
140,480	1
1	1
1	1
1,760,161	######
12,964	2,953
1	1
1	1
24,957	1,566
1	1
1	1
1	1
1	1
1	1
1	1
1	1
20,490	7,273
1	1
1	1
1	1
1	1
1	1
1	1
35,806	######
28,021	1
1	1
6,416	1
13,624	1
1	1
1	1
1	1
176,717	89,218
1	1
1	1
1	1

51,222	8,939
1	1
1	1
1	954
1	1
1	1
61,059	1
1	1
1	1
1	1
1	5,071
1	5,248
1	1
60,130	23,145
1	1
1	1
1	1
1	1
70,117	7,545
38,798	67,820
1	6,849
1	1

NOTE: NSW002 also excluded due to bad injection, but no data provided by analyst in original file.

Non Tidal S

PFNSW 003	PFNSW 004
4,080	3,811
7,203	10,181
8,390	16,323
9,122	11,865
8,961	6,876
11,427	8,410
3,308	22,797
1	28,208
1	56,591
138,444	383,848
6,172	5,958
3,084	1
1,557	1
30,235	49,528
1	1
5,578	1
1	1
1	1
787	7,387
1	1
1	14,472
6,200	3,500
60,545	12,111
1	1
1	1
1	1
14,922	12,571
1	1
1	176
13,612	21,869
1	1
2,652	1
1	4,052
1	1
3,077	1,951
546	1
40,785	58,657
1	1
1	1
1,229	1

9,725	194,940
1	1
1	7,716
1	1,985
1	1
1	1
1,310	16,823
3,973	4,317
1	20,522
1	1
2,233	98,311
2,835	96,163
1	1
10,485	694,475
1	6,877
1	4,272
1	22,247
1	1
6,814	3,903,056
56,555	758,125
5,060	226,714
1	1

Surface Water

PFNSW DUP2	PFNSW 005	PFNSW 012	PFNSW 014	PFNSW 017	PFNSW 018	PFNSW DUP1	PFNSW 019	PFNSW 020	PFNSW 023
2,855	3,622	3,403	2,581	14,402	5,033	5,461	10,942	2,653	5,972
6,073	6,726	7,723	7,922	21,317	16,390	16,912	28,865	6,486	15,310
16,174	9,653	9,264	9,212	36,081	38,333	42,796	53,789	9,362	31,772
10,260	8,626	10,104	8,070	49,767	45,645	53,344	72,032	10,204	37,388
8,217	11,549	6,943	9,778	28,447	16,618	21,134	49,349	9,334	22,983
7,730	9,329	12,353	9,574	33,344	14,663	16,109	81,196	10,717	30,982
2,915	2,725	3,081	2,061	9,278	2,086	2,669	7,220	7,157	26,953
1	1,244	1,348	1,918	14,170	1	1,055	1,311	729	1,044
1	1	1	1	1	1	1	1	1	1
70,930	179,822	152,153	86,249	71,944	54,580	57,979	94,428	67,275	93,107
8,094	7,329	7,074	6,481	3,424	38,168	43,530	8,276	3,413	16,058
618	1	807	1	1	30,877	36,859	1	1	1,331
1	1	694	1	1	7,263	10,223	744	1	961
6,433	7,331	24,973	100,835	11,595	210,460	230,570	23,782	8,876	14,190
1	1	1	1	1	1	1	1	1	1
1	1	44,574	1	1	12,493	15,102	1	1,711	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1,061	1,087	1,199	1,548	1	4,374	5,076	823	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
4,076	6,407	9,071	3,845	12,305	20,102	20,886	6,114	28,108	78,734
10,652	10,503	25,710	5,115	16,554	57,677	69,237	11,892	20,302	20,338
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
11,914	14,916	11,707	9,263	19,976	10,347	24,612	16,707	5,038	11,669
1	1	1	1	1	1	596	1	1	1
1	432	87	1	212	1	1	1	1	1
16,989	12,447	11,447	13,701	21,422	15,786	5,834	23,293	5,144	9,951
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	667	1
223	5,156	4,887	6,246	3,435	5,366	6,092	7,967	4,872	4,320
1	1	1	1	1	1	1	1	1	1
1	1,979	1,727	1	1	951	1	1	1	1
1	1	3,129	1	1	16,440	15,051	1	12,802	968
39,120	51,064	51,772	57,749	62,082	39,784	43,431	53,287	52,254	51,325
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
5,167	4,493	1,161	1,590	7,626	1,787	4,997	4,798	1	4,834

7,034	9,159	10,093	5,484	17,319	6,580	10,299	32,999	7,339	17,632
1	1	1	1	1	1	1	1	1	1
1	1	1	1,016	1	1	5,848	31,576	1	1
1	1	131,830	1	1	1	739	994	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1,291	1,453	1,751	1	4,590	1,252	1,304	3,407	3,516	11,790
11,044	6,701	4,202	9,376	1	1	487	1	427	13,769
1	1	1	1	1	1	1	1	1	1
1	795	1	1	1	1	1	30,151	1	7,864
2,290	2,132	2,074	3,758	3,052	2,552	2,573	2,938	2,836	2,569
3,269	2,243	2,351	3,640	2,640	3,102	3,557	3,507	3,522	2,869
1	1	1	1	1	1	1	748	1	1
13,422	11,979	9,025	19,846	13,384	14,161	16,176	15,292	13,854	12,819
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
28,180	60,147	56,236	38,410	30,228	32,689	32,087	29,019	30,515	24,680
5,651	3,332	3,590	9,304	8,671	7,064	6,966	8,483	7,501	8,708
1	1	1	1	1	1	1	1	1	1

PFNSW 025	FPPW 001	FPPW 001 dup	PFIND 026	PFIND 026 DUP	PFPPW 002	PFPPW 002 DUP	PFPW 002	PFPW 003	PFPW 004	PFPW 005
12,222	58,620	65,188	22,100	6,813	17,098	8,445	1	20,026	1	12,633
23,641	65,668	60,506	117,919	983	13,773	14,649	1	1	47,924	1
43,107	107,742	105,255	39,145	15,610	20,448	29,322	10,182	13,950	15,287	27,730
54,649	1	1	43,476	12,573	23,417	34,678	11,222	13,978	14,502	34,839
32,150	407,983	405,519	96,061	25,690	25,890	43,906	13,065	10,651	14,886	22,356
33,619	8,413,567	8,531,606	714,573	23,915	71,436	93,362	19,428	11,134	21,372	30,434
6,359	6,938,530	6,815,967	1,707,247	24,259	132,650	178,406	12,714	1	30,210	1
1,279	1	1	3,799	16,315	1,156	1,525	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
69,865	1	1	42,171	3,017,245	153,301	58,005	93,694	1,116,194	1,523,008	1,641,488
8,485	73,024	123,219	5,880	1	5,510	6,437	9,899	8,990	8,751	7,400
1,078	1	1	2,655	1	2,169	2,697	1	1	1	1
1	1	1	1,058	1	1,156	1,749	1	1	1	1
9,290	1	1	27,558	23,969	22,539	35,105	21,828	10,124	22,357	10,972
1	1	1	1	1	1	1	1	1	1	1
763	1	1	3,310	1	1,887	1,767	1	39,271	1	166,337
1	50,180	40,480	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
901	1	1	1	6,057	1,350	1,298	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
5,194	1	1	55,885	34,470	6,239	7,695	122,674	213,916	26,186	11,474
16,192	1	1	25,525	27,706	1,194	1,648	1	27,785	15,461	232,197
1	49,065	49,716	1	1	1	1	1	1	1	1
1	47,528	57,011	1	1	1	1	1	1	1	1
1	48,809	58,525	1	1	1	1	1	1	1	1
11,156	1	1	23,624	1	20,256	14,184	1	1	1	1,358
1	1	1	1	1	1	1	1	8,189	1	1
1	1	1	11,034	1	1	1	173,574	372,691	358,770	283,549
5,594	43,883	63,903	51,576	30,841	6,731	7,376	36,173	23,342	41,197	32,071
1	266,675	294,378	1	1	1	1	1	1	1	1
1	1	1	10,084	1	6,373	5,696	1	1	1	1
7,257	29,670	25,962	12,272	1	6,528	4,695	1	1	1	1
1	149,429	155,697	1	1	1	1	1	1	1	1
1	1	1	228	1	5,827	1	26,473	23,400	26,489	18,456
1	1	1	1	17,754	1	1	1	1	1	1
56,059	1	1	40,975	514,522	42,493	49,000	460,902	354,201	341,292	320,518
1	54,577	34,709	1	1	1	1	1	1	1	1
1	6,355	15,267	1	1	1	1	1	1	1	1
6,211	1	1	1	8,901	1	1	3,966	1	1	6,327

15,000	1	1	287,703	52,855	34,085	40,091	41,775	20,660	24,356	38,927
1	4,033,281	4,120,686	1	1	1	1	1	1	1	1
1	1	1	1	17,224	3,957	3,930	14,022	3,792	18,024	1
1,133	1	1	1	6,927	614	1,115	1	1	1	1
1	1	1	7,728	1	1	1	1	1	1	1
1	44,168	44,410	1	1	1	1	1	1	1	1
2,996	2,745,671	2,714,287	596,284	8,538	53,865	71,302	7,609	1	15,261	1
2,814	1	1	2,097	1	1	1	1	1	10,205	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
2,904	1	1	2,198	29,757	2,491	2,269	15,658	11,781	12,080	13,359
3,525	1	1	2,340	39,873	2,327	2,426	18,101	11,692	15,723	16,747
1	255,616	265,722	12,440	1	1	741	1	1	1	1
15,053	1	1	11,983	235,516	11,056	13,960	91,553	81,647	71,533	71,492
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	93,520	6,230	1	64,015	69,331	63,357	66,615
31,209	1	1	28,853	110,774	52,080	23,851	49,278	44,194	51,912	38,511
3,743	1	1	4,895	64,139	4,501	6,051	30,554	17,711	1	25,088
1	55,686	54,075	13,148	1	1	1	1	1	1	1

Groundwater Wells

PFPW 007	PFPW 008	DUP	PFPW 009	PFPW 010	PFPW DUP2	PFPW 011	PFPW 012	PFPW DUP1	PFPW 013D	PFPW 013I	PFPW 013S
1	1	94,780	1	1	5,108	1	15,751	1	3,188	4,276	12,818
33,742	5,876	1	1	1	1,923	17,104	18,383	6,183	3,826	3,185	9,062
25,648	3,524	11,005	11,183	17,788	140,943	21,669	31,613	11,588	23,697	12,441	19,001
42,180	1	16,440	13,227	19,752	26,374	22,462	43,448	13,019	18,606	16,722	18,409
21,199	1	8,413	9,854	12,629	36,343	13,157	17,518	1	10,904	9,031	17,368
24,795	1	11,568	14,911	22,653	15,296	17,402	27,632	1	16,781	13,284	25,675
8,533	1	26,645	17,463	12,559	35,912	10,109	12,800	1	3,571	28,249	49,997
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1,655,230	837,288	1,507,955	1,660,708	1,604,497	1,614,831	1,614,593	1,619,293	1,686,552	1,547,191	1,724,879	1,601,342
12,179	1	10,728	8,651	10,409	11,545	11,599	9,204	17,005	10,032	9,062	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
21,789	11,397	16,742	16,466	22,958	96,797	1,024,710	24,405	1	21,035	15,330	27,836
1	1	1	1	1	1	14,622	1	1	1	1	1
4,557	1	4,011	5,363	1	1	1	5,180	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	12,012	12,081	9,155	1	10,047	1	8,859	22,920	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
430,542	1	2,235,924	4,140,206	2,798,612	3,052,955	1,029,658	633,127	1	3,519,147	4,521,556	16,661
44,742	1	21,204	29,290	32,879	19,837	17,280	36,230	1	22,831	27,622	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
11,746	1	13,490	24,692	24,298	30,516	36,729	15,849	1	23,168	19,706	1
253,719	251,743	359,797	55,932	1	1	1	15,205	1	1	1	1
29,356	1	34,705	12,254	19,498	18,261	25,244	4,360	1	27,359	21,433	31,938
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
23,632	1	25,608	14,861	15,401	1	15,347	11,837	1	6,921	1	8,601
1	1	1	1	1	1	1	1	1	1	1	1
346,404	291,096	438,506	273,975	277,514	212,363	259,993	239,723	196,948	164,688	160,138	200,340
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
7,312	1	8,334	1	4,900	6,219	6,035	4,141	1	1	1	1

25,852	1	35,856	35,714	28,422	31,947	25,541	29,622	20,952	32,564	41,007	33,084
1	1	1	1	1	1	1	1	1	1	1	1
2,383	1	7,592	1	1	1	10,881	6,875	1	2,858	4,459	19,547
1	1	1	1	1	6,705	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	6,705	1	1	1	7,806	1	1	10,875	21,387
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
13,679	10,763	14,826	10,914	9,528	1	8,246	9,730	8,139	1	8,902	8,512
16,725	11,411	20,264	1	10,144	1	12,155	1	8,993	10,939	1	10,850
1	1	1	1	1	1	1	1	1	1	1	1
58,949	56,666	113,208	61,865	64,804	67,513	70,327	58,782	53,364	57,508	68,814	74,387
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
68,459	65,465	70,813	72,694	73,662	70,645	70,972	65,198	76,677	74,302	69,517	74,759
41,484	35,829	42,259	39,985	44,047	34,906	31,553	31,551	40,072	37,453	34,432	29,815
18,885	20,583	28,731	22,100	1	16,699	16,910	19,068	15,079	17,534	18,072	17,572
1	1	1	1	1	1	1	1	1	1	1	1

PFPW 014	PFPW 015	PFPW 016	PFPW 017	PFPW 019	PFPW 020	PFPW 021	PFPW 022	PFPW 024	PFPW 025	PFTSW 001	PFTSW 002
1	8,746	2,907	1	3,326	9,729	1	1	1	1	5,115	1
12,586	7,905	1	1	1	2,236	27,365	139,705	27,586	1	37,124	1
15,999	15,031	11,917	22,208	16,315	13,356	35,145	186,783	30,798	1	10,459	1
22,426	20,595	16,086	22,777	16,901	23,681	35,403	186,841	30,355	1	12,477	1
14,584	13,984	9,164	13,306	11,034	20,495	36,556	188,215	32,005	1	20,943	8,954
20,244	23,880	10,742	13,620	15,603	38,791	26,986	155,712	25,075	1	15,064	7,406
20,281	29,033	1	10,827	8,281	57,611	17,384	86,160	16,663	1	41,220	1
1	1	1	1	1	1	10,452	39,877	11,246	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1,559,155	1,743,164	1,717,934	1,749,694	571,549	536,946	2,110,070	1,734,198	1,677,176	1,763,986	809,115	1,676,318
11,965	12,931	7,640	12,343	10,393	8,401	36,280	219,697	30,699	1	1	1
1	1	1	1	1	5,806	47,412	275,071	39,166	1	1	1
1	1	1	1	1	1	49,653	267,850	38,607	1	1	1
10,509	10,144	15,199	35,957	61,186	92,638	293,851	172,256	30,313	1	1	1
1	1	1	1	1	1	16,977	68,024	12,994	1	1	1
19,142	1	1	10,019	8,080	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	7,618	38,980	6,649	1	1	1
1	1	1	1	1	1	8,033	40,004	7,215	1	1	1
1	1	1	1	1	1	1	12,763	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
467,106	39,673	780,454	881,145	676,001	40,489	1	1	1	1	1	1
87,032	19,912	15,431	20,256	23,164	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
3,795	1	1	12,396	1	1	1	1	1	1	1	1
1	1	15,299	11,374	16,203	1	1	1	1	1	1	1
41,698	1	8,772	1	126,756	57,775	1	1	1	1	1	1
3,658	8,817	18,255	25,878	31,903	1	1	1	1	1	1	5,979
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	5,483	1	6,325	1	1	1	1	1	5,709
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
11,912	10,136	8,016	15,058	9,466	10,775	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
236,759	248,406	258,874	247,311	233,088	229,103	187,584	207,810	185,105	209,337	196,738	201,116
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
10,498	4,988	4,451	4,604	3,247	1	1	1	1	1	1	1

13,921	29,033	23,687	22,468	23,204	32,211	27,876	74,992	28,900	20,418	25,320	16,670
1	1	1	1	1	1	1	1	1	1	1	1
3,631	6,684	8,469	1	12,276	1	1	1	1	1	1	2,694
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
8,676	13,945	1	1	1	25,944	7,104	39,506	7,326	1	17,929	1
5,358	10,549	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
12,586	8,596	9,394	8,810	9,347	9,315	1	5,047	10,023	6,020	7,106	8,744
14,310	9,798	9,840	10,797	10,848	1	10,011	10,024	1	11,433	10,236	11,349
1	1	1	1	1	1	1	10,659	1	1	1	1
82,593	72,082	53,016	72,341	81,362	68,168	74,230	63,244	75,503	57,894	67,389	68,848
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	5,790	22,829	5,134	1	1	1
73,851	73,476	74,869	67,271	70,193	70,802	74,491	76,179	64,824	73,826	77,833	76,770
44,446	33,854	38,691	37,964	35,260	38,973	33,512	32,463	31,283	33,285	34,004	31,996
23,344	14,854	16,951	7,645	19,635	20,832	17,094	16,005	14,407	14,662	16,981	14,851
1	1	1	1	1	1	1	1	1	1	1	1

Tidal Surface Water

PFTSW 003	PFTSW 004	PFTSW 005	PFTSW 006	PFTSW 007	PFTSW 008	PFTSW 009	PFTSW 010	PFTSW DUP2	PFTSW 011	PFTSW 012
1	17,173	2,177	12,769	25,574	1	3,985	7,325	3,358	12,356	11,847
1	1	1	7,334	2,603	1	3,228	1	7,770	13,430	33,269
1	16,723	13,288	20,645	16,591	4,439	14,505	1	18,245	24,104	59,714
1	14,005	5,399	25,649	16,717	10,604	19,732	1	17,450	26,450	77,365
1	11,327	22,853	56,856	49,930	11,243	89,792	1	7,258	24,502	49,993
6,053	14,954	17,942	157,044	22,289	10,339	35,189	1	10,375	61,715	134,648
7,364	12,801	50,923	717,233	14,833	32,278	59,131	1	3,311	186,027	37,832
1	1	1	1	1	1	1	1	1,039	1	1
1	1	1	1	1	1	1	1	1	1	1
1,703,848	1,615,440	1,278,508	1,512,338	1,696,403	1,711,625	1,632,597	1,658,898	169,176	1,512,273	1,726,835
1	1	1	29,232	1	1	1	1	9,766	18,098	1
1	1	1	1	1	1	1	1	1,297	1	1
1	1	1	1	1	1	1	1	625	1	1
1	1	1	60,994	10,907	1	1	1	12,693	40,316	450,323
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	5,877	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	2,154	14,932	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1,948,028	70,782	1
21,112	1	9,441	1	1	1	1	1	27,901	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	4,336	1	9,930	1	1	6,924	1	13,280	1	6,884
1	1	1	1	1	1	1	1	16,460	1	1
1	1	1	1	1	1	1	28,324	1	1	1
1	31,105	1	13,797	13,405	18,699	1	1	11,638	5,366	11,867
1	1	1	1	1	1	1	1	1	1	1
1	1	6,132	1	1	1	7,612	1	2,767	1	3,974
1	1	9,006	11,786	1	1	10,289	1	6,222	1	1
1	1	1	1	1	1	1	1	1	1	1
1	4,796	1	7,160	1	1	1	1	4,631	3,912	1
1	1	1	1	1	1	1	1	1	1	1
191,659	203,468	200,622	169,352	191,068	156,525	175,939	174,314	45,972	170,522	158,767
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	5,169	1	1,934	1	1	1	1	1,565	1	1

19,595	22,768	17,233	89,129	29,183	24,710	23,933	16,014	18,733	43,864	68,932
1	1	1	1	1	1	1	1	1	1	1
1	21,882	1	8,217	1	3,795	5,844	1	1,980	18,612	4,261
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	22,654	301,629	6,658	14,466	27,938	1	1,817	84,677	17,499
1	1	1	1	1	1	1	1	1,782	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
8,016	1	7,481	1	8,240	1	8,237	1	2,023	5,613	1
1	8,959	10,223	1	9,199	8,021	1	7,876	1	1	1
1	1	1	7,528	1	1	1	1	1	1	6,711
47,502	52,529	54,581	56,936	63,880	50,525	57,480	44,293	11,241	41,889	54,403
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
74,054	77,361	70,458	80,009	66,608	67,347	70,456	66,676	7,304	73,156	69,506
32,800	32,224	35,666	32,076	42,720	41,618	40,749	31,065	60,199	30,281	32,139
1	1	8,743	15,940	14,346	1	1	13,653	5,077	13,240	1
1	1	1	1	1	1	1	1	1	1	1

PFTSW 013	PFTSW 014	PFTSW 015	PFTSW DUP1	PFTSW 016	PFTSW 017	PFTSW 018	PFTSW 019	PFTSW 020
1	1	12,828	2,893	3,528	59,751	57,509	18,219	9,982
8,168	290,703	40,257	5,393	1	333,455	106,665	10,546	28,865
24,854	330,603	39,447	13,322	12,869	646,453	168,915	23,143	54,764
1	317,259	58,008	13,218	8,723	741,596	198,532	19,938	72,220
9,409	293,888	29,603	5,754	36,205	313,930	77,216	15,560	56,474
1	282,692	93,391	8,312	26,547	585,980	106,614	28,724	193,104
1	230,451	159,086	2,674	116,971	125,816	23,689	25,807	29,107
1	214,280	1	1	1	13,852	1	1	1
1	1	1	1	1	1	1	1	1
1,665,391	1,755,761	1,646,016	55,105	1,714,744	1,488,602	1,590,778	1,728,480	1,746,395
1	413,415	11,942	5,870	1	10,906	1	6,755	5,952
1	1	1	919	1	10,814	1	1	1
1	1	1	598	1	18,762	1	1	4,668
1	444,102	23,144	10,563	1	452,291	16,437	21,075	33,853
1	1	1	1	1	1	1	1	1
1	1	1	4,492	1	2,356	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1,517	1	13,117	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	23,171	1,531,339	1	1	1	1	1
1	1	1	27,160	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	5,319	16,843	1	1	5,466	1	6,689
1	1	1	11,545	1	1	1	1	1
1	1	1	2,254	1	1	8,106	1	1
1	1	37,266	11,552	1	35,476	7,843	22,536	9,661
1	1	1	1	1	1	1	1	1
1	1	1	3,178	1	1	3,540	1	9,047
1	1	1	4,306	10,816	1	1	8,477	12,801
1	1	1	1	1	1	1	1	1
1	1	1	5,717	1	1	2,442	1	1
1	1	1	577	1	1	1	1	1
145,344	155,192	164,269	49,844	179,247	236,283	229,737	149,256	161,728
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	2,417	852	1	1	1	1	1

10,583	122,187	51,481	13,602	18,678	264,172	61,137	25,021	90,153
1	1	1	1	1	1	1	1	1
1	1	3,388	1,290	1	31,420	3,561	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	102,125	68,740	1,675	49,137	56,936	10,766	11,095	13,521
1	1	1	1,163	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	6,646	2,159	1	10,273	1	1	1
1	1	1	2,037	1	12,014	1	1	1
1	16,127	5,365	1	1	1	1	1	10,395
55,861	59,178	56,012	11,630	60,173	72,696	65,207	46,108	42,885
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
70,857	72,350	73,842	7,493	64,498	71,966	75,286	72,359	67,027
29,105	46,463	34,454	57,106	66,966	42,821	34,729	35,771	36,055
1	1	1	5,365	1	21,433	11,313	1	9,856
1	1	1	1	1	1	1	1	1

Annotations

Perfluoropropanoic acid [C3 H F5 O2, tgt=, overall=81.63, db=81.63]

Perfluorobutanoic acid [C4 H F7 O2, tgt=, overall=85.74, db=85.74]

Perfluoropentanoic acid [C5 H F9 O2, tgt=, overall=89.05, db=89.05]

Sodium perfluorohexanoate [C6 H F11 O2, tgt=, overall=83.07, db=83.07]

Perfluoroheptanoic acid [C7 H F13 O2, tgt=, overall=97.20, db=97.20]

Perfluorooctanoic acid [C8 H F15 O2, tgt=, overall=97.22, db=97.22]

Perfluorononanoic acid [C9 H F17 O2, tgt=, overall=93.50, db=93.50]

Perfluorodecanoic acid [C10 H F19 O2, tgt=, overall=84.98, db=84.98]

Perfluorododecanoic acid [C12 H F23 O2, tgt=, overall=81.49, db=81.49]

Perfluorotetradecanoic acid [C14 H F27 O2, tgt=, overall=98.08, db=98.08]

Potassium perfluorobutanesulfonate [C4 H F9 O3 S, tgt=, overall=70.67, db=70.67]

Potassium perfluoropentanesulfonate [C5 H F11 O3 S, tgt=, overall=90.25, db=90.25]

C7F15HO3S [C7 F15 H O3 S, tgt=, overall=94.71, db=94.71]

Potassium perfluorooctanesulfonate [C8 H F17 O3 S, tgt=, overall=99.17, db=99.17]

Perfluorononanesulfonic acid [C9 H F19 O3 S, tgt=, overall=98.06, db=98.06]

2:2 fluorotelomer alcohol [C4 H5 F5 O, tgt=, overall=55.53, db=55.53]

3:2 Fluorotelomer alcohol [C5 H5 F7 O, tgt=, overall=66.72, db=66.72]

4:2 Fluorotelomer sulfonic acid [C6 H5 F9 O3 S, tgt=, overall=94.20, db=94.20]

6:2 Fluorotelomer sulfonic acid [C8 H5 F13 O3 S, tgt=, overall=99.58, db=99.58]

8:2 Fluorotelomer sulfonic acid [C10 H5 F17 O3 S, tgt=, overall=96.60, db=96.60]

7:2 Fluorotelomer dihydrogen phosphate [C9 H6 F15 O4 P, tgt=, overall=68.82, db=68.82]

Analyst ID

N,N-dimethyl-2H-perfluoroethanamine [C4 H7 F4 N, tgt=, overall=48.90, db=48.90]

0

0

0

1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane [C6 H10 F4 O3, tgt=, overall=40.39, db=40.39]

2-Perfluoropropyl-2-propanol [C6 H7 F7 O, tgt=, overall=67.66, db=67.66]

5H-Perfluoropentanal [C5 H2 F8 O, tgt=, overall=46.85, db=46.85]

Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate [C7 H6 F6 O2, tgt=, overall=66.38, db=66.38]

0

1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene [C14 H18 F4, tgt=, overall=49.80, db=49.80]

N-Methyl-N-trimethylsilylheptafluorobutyramide [C8 H12 F7 N O Si, tgt=, overall=34.45, db=34.45]

0

1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate [C11 H10 F6 O4, tgt=, overall=80.68, db=80.68]

Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt [C15 H10 F6 O2, tgt=, overall=74.18, db=74.18]

Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate [C7 H2 F12 O2, tgt=, overall=86.86, db=86.86]

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0

((Perfluorobutyl)ethyl)trimethoxysilane [C9 H13 F9 O3 Si, tgt=, overall=26.94, db=26.94]

1-Hydroperfluoroheptane [C7 H F15, tgt=, overall=99.49, db=99.49]

0

3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate [C12 H12 F10 O2, tgt=, overall=48.88, db=48.88]

Tridecafluoroheptaneperoxoic acid [C7 H F13 O3, tgt=, overall=84.70, db=84.70]

C8H12F9NO4S [C8 H12 F9 N O4 S, tgt=, overall=36.47, db=36.47]

0

8H-Perfluorooctane [C8 H F17, tgt=, overall=97.58, db=97.58]

Perfluoropentane sulfonamido amine [C10 H13 F11 N2 O2 S, tgt=, overall=26.08, db=26.08]

6:2 Fluorotelomer phosphate monoester [C8 H6 F13 O4 P, tgt=, overall=69.52, db=69.52]

C14H17F13O [C14 H17 F13 O, tgt=, overall=25.24, db=25.24]

C11H6ClF13O2 [C11 H6 Cl F13 O2, tgt=, overall=41.46, db=41.46]

C9H3F17O3 [C9 H3 F17 O3, tgt=, overall=57.39, db=57.39]

Perfluorooctanesulfonamide [C8 H2 F17 N O2 S, tgt=, overall=63.71, db=63.71]

11-H-Perfluoroundecanoic acid [C11 H2 F20 O2, tgt=, overall=97.44, db=97.44]

Monoperfluorooctyl itaconate [C13 H5 F17 O4, tgt=, overall=58.85, db=58.85]

POLYFLGSID_880938 [C11 H16 F11 I N2 O2 S, tgt=, overall=53.22, db=53.22]

Methyl perfluoroundecanoate [C12 H3 F21 O2, tgt=, overall=55.29, db=55.29]

Potassium henicosafluorodecanesulphonate [C10 H F21 O3 S, tgt=, overall=96.50, db=96.50]

, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1) [C13 H F25 O2, tgt=, overall=9

POLYFLGSID_880958 [C33 H42 F8 N2 O4, tgt=, overall=83.10, db=83.10]

Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide [C14 H2 F24 O4, tgt=, overall=96.07, db=96.07]

2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane [C17 H F35 O5, tgt=, overall=70.91, db=70.91]

MS1 Composite Spectrum

(162.9835, 18210.6)(163.9868, 638.83)

(212.9799, 85455.12)(213.9825, 3681.07)

(526.9606, 1479.41)(262.9778, 98671.26)(263.9808, 5382.4)(264.9819, 720.72)

(626.9514, 2624.11)(312.974, 127068.39)(313.977, 9634.05)

(726.9453, 4449.41)(727.9511, 905.57)(362.9706, 137393.62)(363.9733, 10125.97)(364.9754, 1104.6)

(826.9397, 28903.52)(827.9446, 5088.38)(828.9483, 773.86)(412.9673, 346926.94)(413.9697, 25719.36)(414.9723, 2819.43)

926.9342, 182618.66)(927.9364, 30817.63)(928.9373, 4630.95)(929.9338, 993.97)(462.9646, 1104951.9)(463.9661, 85152.46)(464.9679, 8180.82

(512.9604, 32031.93)(513.962, 3836.36)

(612.9551, 9401.04)(613.9581, 1518.2)

(1426.9023, 1283.72)(1427.9052, 438.66)(712.9482, 163438.06)(713.9504, 23094.75)(714.9524, 3047.09)

(298.9446, 139464.92)(299.9467, 6952.53)

(348.9417, 207592.17)(349.9441, 12296.5)(350.9382, 9391.57)

(448.9349, 205653.38)(449.9371, 15880.12)(450.9324, 9402.46)(451.9355, 1140.81)

(498.9301, 123151.4)(499.9327, 10761.46)(500.928, 6203.08)(501.9357, 1779.78)

(548.9277, 64184.49)(549.9295, 6793.47)(550.926, 3689.07)

(163.0162, 22894.62)(164.0203, 2009.44)

(213.0157, 5556.6)(214.029, 563.83)

(326.9756, 39511.91)(327.9775, 3114.37)(328.9731, 2151.52)

(426.9682, 47588.46)(427.9715, 4663.42)(428.9654, 2741.5)

(526.9612, 14947.27)(527.9625, 1812.16)(528.9578, 945.85)

(492.9693, 5743.3)(493.969, 968.79)

(366.9428, 1217857.4)(367.9447, 65169.64)

(144.046, 37050.93)(145.0497, 5444.77)

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(411.1022, 22632.59)(412.1108, 4573.98)(205.0523, 2867.42)(206.0132, 1582.62)

(227.0324, 5567.26)(228.0466, 90.39)

(113.9898, 11165.87)(114.4998, 120.29)(228.9864, 8726.56)(229.9925, 717.05)

(471.1242, 3142.85)(235.0224, 14626.4)(236.0246, 1307.92)

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(261.1315, 6849.04)(262.1341, 1100.18)

(298.0539, 6120.99)(299.0545, 112.66)

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(319.042, 20826.85)(320.0469, 2437.86)

(335.0531, 6241.08)(336.0574, 1101.93)

(344.9796, 18627.5)(345.983, 1503.27)

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(367.0456, 5349.39)(368.0489, 2167.49)

(738.9461, 42607.6)(368.977, 142500.39)(369.9801, 10270.18)(370.9782, 544.19)

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(377.0644, 1801.75)(378.0589, 1054.02)

(378.9656, 110596.88)(379.9685, 8057.92)

(388.0222, 4377.66)(389.0241, 630.41)

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(418.9741, 412912.53)(419.9765, 28971.76)(420.9776, 1738.99)

(433.0504, 7418.29)(434.0558, 1431.05)

(442.974, 6785.35)(443.977, 1076.23)

(447.0935, 6283.62)(448.0993, 1687.55)

(450.9807, 13009.39)(451.9843, 1376.75)

(480.9693, 44536.34)(481.9718, 4829.56)

(497.9434, 6170.48)(498.9482, 647.58)

(1090.9347, 11375.61)(1091.9392, 3058.0)(1092.9409, 621.23)(544.9663, 424829.6)(545.9682, 43410.36)(546.9697, 4878.24)

(546.9818, 3263.33)(547.9778, 367.05)

(574.9757, 2897.18)(575.9749, 672.07)

(576.9703, 12362.68)(577.973, 1965.2)(578.9683, 1624.4)

(598.9225, 26601.48)(599.9252, 3233.63)(600.9198, 1603.41)

(1326.9099, 6242.7)(1327.9103, 1869.14)(1328.9103, 466.97)(662.9526, 321357.28)(663.9547, 39935.41)(664.9569, 4516.73)

(681.2983, 441118.16)(682.3004, 152665.6)(683.3026, 35160.8)(684.306, 7358.79)

(343.9729, 26983.69)(344.4746, 4272.5)(344.9794, 2130.54)(688.9514, 67188.94)(689.9539, 10100.45)(690.9559, 1801.63)

(948.9149, 12626.94)(949.9182, 2499.55)

	15	15	15	15	15	70	70	70	70
	Spiked Blanks								
Original Raw Order	**PFNSWSB1**	**PFPWSB1**	**PFPWSB3**	**PFTSWSB1**	**PFTSWSB2**	**PFNSWSB2**	**PFPWSB2**	**PFTSWSB3**	**PFTSWSB4**
1,412	1	54,268	80,748	1	1	1	107,895	1	1
151	14,153	20,814	132,938	10,778	16,431	71,054	132,157	87,975	97,263
122	19,372	58,050	360,469	13,372	24,930	106,279	416,251	133,655	153,269
111	20,819	102,027	452,328	15,368	26,006	120,490	753,429	139,330	166,515
94	23,952	55,719	272,503	17,287	34,738	189,065	420,214	148,733	177,350
28	17,803	100,399	456,900	13,551	23,687	97,921	761,167	113,727	133,532
887	10,440	1	43,042	8,336	13,720	55,719	25,777	65,817	82,186
1,198	5,979	1	1	4,107	7,498	28,017	1	32,929	39,842
1,095	877	1	1	1	1,297	4,972	1	5,200	4,958
71	66,528	1,770,090	1,740,291	179,178	134,540	67,469	1,629,897	188,815	176,480
105	31,328	1	43,809	12,225	31,817	144,043	11,733	178,229	180,836
913	35,948	1	1	17,936	41,141	203,785	1	225,323	263,136
914	32,906	1	1	19,284	38,347	204,013	1	219,524	255,403
84	23,876	1	25,442	13,221	27,638	120,237	20,355	138,062	163,464
995	12,061	1	1	5,544	12,586	66,977	1	69,726	77,932
1,201	1	2,704	2,213	1	1	1	1	1	1
1,694	1	1	1	1	1	1	1	1	1
1,100	6,635	1	1	4,626	8,851	40,795	1	42,278	50,899
1,077	6,945	1	1	6,445	13,992	40,025	1	46,999	53,730
1,471	3,110	1	1	2,370	4,022	14,678	1	17,256	20,014
1,736	1	1	1	1	1	1	1	1	1
10	1	1	1	2,743	4,537	825	1	17,148	4,646
1,031	1	1	1	1	1	1	1	1	1
2,445	1	1	1	1	1	1	1	1	1
2,446	1	1	1	1	1	1	1	1	1
2,447	1	1	1	1	1	1	1	1	1
1,011	1	1	7,984	1	1	1	3,732	1	1
1,525	1	1	1	1	1	1	1	1	1
213	1	18,310	1	1	7,209	1	1	4,692	1,866
1,104	1	1	5,904	1	1	1	1	1	1
2,450	1	1	1	1	1	1	1	1	1
1,880	1	1	1	1	1	1	1	1	1
2,085	1	1	1	1	1	1	8,071	1	1
2,451	1	1	1	1	1	1	1	1	1
1,320	1	1	9,181	1	1	1	7,053	1	1
1,698	1	1	1	1	1	1	1	1	1
202	40,795	199,193	219,051	74,202	71,995	35,514	186,140	55,276	55,658
2,452	1	1	1	1	1	1	1	1	1
2,453	1	1	1	1	1	1	1	1	1
1,742	1	1	1	1	1	1	1	1	1

67	8,386	55,267	205,311	9,365	11,632	36,323	303,038	42,902	50,112
2,454	1	1	1	1	1	1	1	1	1
2,362	1	1	1	1	1	1	1	1	1
139	1	1	1	1	1	1	1	833	961
2,140	1	1	1	1	1	1	1	1	1
2,455	1	1	1	1	1	1	1	1	1
898	4,604	1	20,763	3,644	5,866	23,595	12,706	27,243	33,492
1,699	1	1	1	1	1	1	1	1	1
1,524	1	1	1	1	1	1	1	1	1
1,252	1	1	1	1	1	1	1	1	1
437	2,024	1	8,688	2,964	279	307	1	468	893
188	2,683	8,406	1	2,973	3,191	2,367	1	2,475	2,375
1,818	616	1	24,620	1	1	2,584	42,857	1,438	1,697
26	12,604	62,202	68,076	17,132	14,722	11,232	64,256	13,578	12,119
2,123	1	1	1	1	1	1	1	1	1
2,243	1	1	1	1	1	1	1	1	1
1,385	1	1	1	1	1	1	1	1	1
1,276	4,884	1	1	1,780	5,599	29,958	1	27,595	27,900
9	1	75,367	79,347	8,120	8,585	1	72,508	8,322	155
24	27,297	36,970	42,269	50,257	61,306	26,380	34,434	60,399	59,759
80	3,298	8,186	15,092	5,536	4,978	4,975	15,138	4,332	4,780
1,707	1	1	1	1	1	1	1	1	1

Cell: CN10

Comment: Sullivan, Kate:

TSW013 excluded from reportiing due to bad injection

New Jersey DEP Water Samples--

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NTA Screening Worksheet

This worksheet sourced from NJ NTA Water OFFICIAL Data

Renamed some of the headers

Note: Matched PFAS group reordered

Tentatively Identified Compound
Perfluoropropanoic acid; CAS 422-64-0
Perfluorobutanoic acid (PFBA); CAS 375-22-4
Perfluoropentanoic acid (PFPeA); CAS 2706-90-3
Perfluorohexanoate (PFHxA); CAS 92612-52-7
Perfluoroheptanoic acid (PFHpA); CAS 375-85-9
Perfluorooctanoic acid (PFOA); CAS 335-67-1
Perfluorononanoic acid (PFNA); CAS 375-95-1
Perfluorodecanoic acid (PFDA); CAS 335-76-2
Perfluorododecanoic acid (PRDoDA); CAS 307-55-1
Perfluorotetradecanoic acid (PFTrDA); CAS 376-06-7
Perfluorobutanesulfonate (PFBS); CAS 375-73-5
Perfluoropentanesulfonate (PFPeS); CAS 2706-91-4
Perfluoroheptanesulfonic acid (PFHpS); CAS 375-92-8
Perfluorooctanesulfonate (PFOS); CAS 1763-23-1

Perfluorononanesulfonic acid (PFNS); CAS 68259-12-1
2:2 fluorotelomer alcohol; CAS 54949-74-5
3:2 Fluorotelomer alcohol; CAS 755-40-8
4:2 Fluorotelomer sulfonic acid (4:2FtS); CAS 757124-72-4
6:2 Fluorotelomer sulfonic acid (6:2FtS); CAS 27619-97-2
8:2 Fluorotelomer sulfonic acid (8:2FtS); CAS 39108-34-4
7:2 Fluorotelomer dihydrogen phosphate; CAS 37013-72-2
ClPFPECA 0,1 (Chloro-Perfluoro=Polyether-Carboxylate)
N,N-dimethyl-2H-perfluoroethanamine; CAS 1550-50-1
2H-Perfluoropropane 6.207
ethyl 2,3,3,3-tetrafluoropropanoate; CAS 399-92-8
1H,2H-Hexafluorocyclopentene; CAS 1005-73-8
1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane; CAS 42415-18-9
2-Perfluoropropyl-2-propanol; CAS 355-22-6
5H-Perfluoropentanal; CAS 2648-47-7
Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate; CAS 1513-60-6
2,2,3,3,4,4-Hexafluorobutyl 2-methylprop-2-enoate; CAS 45168-50-1
1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene; CAS 54111-17-0
N-Methyl-N-trimethylsilylheptafluorobutyramide; CAS 53296-64-3
1H-Perfluorohexane (C7 decarboxyl fragment)
1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate; CAS 678-95-5
Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate
2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl Fluoride; CAS 5927-65-1
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate; CAS 376-34-1
((Perfluorobutyl)ethyl)trimethoxysilane; CAS 85877-79-8

1-Hydroperfluoroheptane; CAS 375-83-7
decarboxyl PFOA fragment
3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate; CAS 61915-92-2
Tridecafluoroheptaneperoxoic acid; CAS 139702-34-4
C8H12F9NO4S
Undecafluorocyclohexanemethanol dihydrogen phosphate; CAS 32582-74-4
decarboxyl PFNA fragment
Perfluoropentane sulfonamido amine; CAS 68555-78-2
6:2 Fluorotelomer phosphate monoester; CAS 57678-01-0
C14H17F13O
C11H6ClF13O2
C9H3F17O3
Perfluorooctanesulfonamide (PFOSA); CAS 754-91-6
11-H-Perfluoroundecanoic acid; CAS 1765-48-6
Monoperfluorooctyl itaconate; CAS 230295-05-3
POLYFLGSID_880938; CAS 68957-57-3
Methyl perfluoroundecanoate; CAS 203302-98-1
Henicosafluorodecanesulphonate (PFDS)
Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1)
POLYFLGSID_880958; CAS 72494-14-5
Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide; CAS 32687-76-6
2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane; CAS 37486-69-4

Perfluoro-3-methoxypropanoic acid; CAS 377-73-1
C3H2O4SF6
Perfluoro-1,10-decanedicarboxylic acid; CAS 865-85-0
8-H-Perfluorooctanoic acid; CAS 13973-14-3
Perfluorohexane Sulfonate (PFHxS); CAS 355-46-4
9-H-Perfluorononanoic acid; CAS 76-21-1
Perfluoroundecanoic acid (PFUnDA); CAS 2058-94-8
102.0683@1.7269999
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102.0689@1.1859992
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107.9899@0.85900056
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144.0693@1.278

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147.9747@0.6240003
150.0687@2.347
151.0097@4.247001
152.048@1.289001
152.0483@3.7640045
152.0491@1.3779988
152.0502@1.9320012
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158.0246@0.65399957
158.0589@0.77600074
160.0298@1.0889992
160.0747@0.8040006
162.0478@0.72100043
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Note: 3 compounds in MATCHED have no detection after rounding and noise detection limit applied. These are remo

Compound Characteristics

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ved to the bottom of the MATCHED PFAS and are not reported.

	Count
Matched PFAS	62
Suspect	821
Unknown	1548
Matched PFAS Non-detect	7

Formula	Mass Defect	Retention Time	Score	Annotations
C3 H F5 O2	0.9903	0.96	0	Perfluoropropanoic acid [C3 H F5 O2, tgt=, overall=81.63, db=81.63]
C4 H F7 O2	0.9877	1.54	0	Perfluorobutanoic acid [C4 H F7 O2, tgt=, overall=85.74, db=85.74]
C5 H F9 O2	0.9844	4.28	0	Perfluoropentanoic acid [C5 H F9 O2, tgt=, overall=89.05, db=89.05]
C6 H F11 O2	0.9809	5.51	0	Sodium perfluorohexanoate [C6 H F11 O2, tgt=, overall=83.07, db=83.07]
C7 H F13 O2	0.9783	6.21	0	Perfluoroheptanoic acid [C7 H F13 O2, tgt=, overall=97.20, db=97.20]
C8 H F15 O2	0.9734	6.71	0	Perfluorooctanoic acid [C8 H F15 O2, tgt=, overall=97.22, db=97.22]
C9 H F17 O2	0.971	7.11	0	Perfluorononanoic acid [C9 H F17 O2, tgt=, overall=93.50, db=93.50]
C10 H F19 O2	0.9676	7.48	0	Perfluorodecanoic acid [C10 H F19 O2, tgt=, overall=84.98, db=84.98]
C12 H F23 O2	0.9591	8.33	0	Perfluorododecanoic acid [C12 H F23 O2, tgt=, overall=81.49, db=81.49]
C14 H F27 O2	0.9526	13.86	0	Perfluorotetradecanoic acid [C14 H F27 O2, tgt=, overall=98.08, db=98.08]
C4 H F9 O3 S	0.951	4.67	0	Potassium perfluorobutanesulfonate [C4 H F9 O3 S, tgt=, overall=70.67, db=70.67]
C5 H F11 O3 S	0.9471	5.61	94.71	Potassium perfluoropentanesulfonate [C5 H F11 O3 S, tgt=, overall=90.25, db=90.25]
C7 F15 H O3 S	0.94	6.71	0	C7F15HO3S [C7 F15 H O3 S, tgt=, overall=94.71, db=94.71]
C8 H F17 O3 S	0.9374	7.10	0	Potassium perfluorooctanesulfonate [C8 H F17 O3 S, tgt=, overall=99.17, db=99.17]

C9 H F19 O3 S	0.9322	7.48	0	Perfluorononanesulfonic acid [C9 H F19 O3 S, tgt=, overall=98.06, db=98.06]
C4 H5 F5 O	0.0226	1.10	0	2:2 fluorotelomer alcohol [C4 H5 F5 O, tgt=, overall=55.53, db=55.53]
C5 H5 F7 O	0.0232	0.19	0	3:2 Fluorotelomer alcohol [C5 H5 F7 O, tgt=, overall=66.72, db=66.72]
C6 H5 F9 O3 S	0.9826	5.36	0	4:2 Fluorotelomer sulfonic acid [C6 H5 F9 O3 S, tgt=, overall=94.20, db=94.20]
C8 H5 F13 O3 S	0.9751	6.64	0	6:2 Fluorotelomer sulfonic acid [C8 H5 F13 O3 S, tgt=, overall=99.58, db=99.58]
C10 H5 F17 O3 S	0.9677	7.47	0	8:2 Fluorotelomer sulfonic acid [C10 H5 F17 O3 S, tgt=, overall=96.60, db=96.60]
C9 H6 F15 O4 P	0.9763	7.36	0	7:2 Fluorotelomer dihydrogen phosphate [C9 H6 F15 O4 P, tgt=, overall=68.82, db=68.82]
C8 CL F14 O4	0.948	7.02	0	Analyst ID
C4 H7 F4 N	0.054	3.14	0	N,N-dimethyl-2H-perfluoroethanamine [C4 H7 F4 N, tgt=, overall=48.90, db=48.90]
C3 H F7	0.9969	0.00	40.37	0
C5 H6 F4 O2	0.0275	0.00	79.63	0
C5 H2 F6	0.0051	0.00	83.19	0
C6 H10 F4 O3	0.0563	1.33	0	1,1,1,2-Tetrafluoro-3,3,3-trimethoxypropane [C6 H10 F4 O3, tgt=, overall=40.39, db=40.39]
C6 H7 F7 O	0.0427	2.25	0	2-Perfluoropropyl-2-propanol [C6 H7 F7 O, tgt=, overall=67.66, db=67.66]
C5 H2 F8 O	0.9938	1.05	0	5H-Perfluoropentanal [C5 H2 F8 O, tgt=, overall=46.85, db=46.85]
C7 H6 F6 O2	0.035	0.70	0	Ethyl 4,4,4-trifluoro-3-(trifluoromethyl)crotonate [C7 H6 F6 O2, tgt=, overall=66.38, db=66.38]
C8 H8 F6 O2	0.045	0.00	88.02	0
C14 H18 F4	0.14	4.58	0	1,4-Bis(1,1-dimethylethyl)-2,3,5,6-tetrafluorobenzene [C14 H18 F4, tgt=, overall=49.80, db=49.80]
C8 H12 F7 N O Si	0.0625	1.42	0	N-Methyl-N-trimethylsilylheptafluorobutyramide [C8 H12 F7 N O Si, tgt=, overall=34.45, db=34.45]
C6 H F13	0.9874	0.00	84.02	0
C11 H10 F6 O4	0.0495	1.34	0	1H,1H,5H,5H-Perfluoro-1,5-pentanediol diacrylate [C11 H10 F6 O4, tgt=, overall=80.68, db=80.68]
C15 H10 F6 O2	0.0603	4.90	26.08	Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, dipotassium salt [C15 H10 F6 O2, tgt=, overall=74.18, db=74.18]
C7 H2 F12 O2	0.9877	5.14	0	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate [C7 H2 F12 O2, tgt=, overall=86.86, db=86.86]
C7 H F13 O	0.9841	0.00	59.98	0
C7 H5 F12 N O2	0.0126	0.00	98.13	0
C9 H13 F9 O3 Si	0.0558	0.58	0	((Perfluorobutyl)ethyl)trimethoxysilane [C9 H13 F9 O3 Si, tgt=, overall=26.94, db=26.94]

C7 H F15	0.9833	6.71	0	1-Hydroperfluoroheptane [C7 H F15, tgt=, overall=99.49, db=99.49]
C7 H F15	0.9853	0.00	35.96	0
C12 H12 F10 O2	0.0761	0.67	0	3,3,4,4,5,5,6,6,7,7-Decafluorooctyl 2-methylprop-2-enoate [C12 H12 F10 O2, tgt=, overall=48.88, db=48.88]
C7 H F13 O3	0.9721	6.33	0	Tridecafluoroheptaneperoxoic acid [C7 H F13 O3, tgt=, overall=84.70, db=84.70]
C8 H12 F9 N O4 S	0.0297	6.37	0	C8H12F9NO4S [C8 H12 F9 N O4 S, tgt=, overall=36.47, db=36.47]
C7 H4 F11 O4 P	0.9725	0.00	97.27	0
C8 H F17	0.9811	7.11	0	8H-Perfluorooctane [C8 H F17, tgt=, overall=97.58, db=97.58]
C10 H13 F11 N2 O2 S	0.0591	4.22	0	Perfluoropentane sulfonamido amine [C10 H13 F11 N2 O2 S, tgt=, overall=26.08, db=26.08]
C8 H6 F13 O4 P	0.9812	6.98	67.66	6:2 Fluorotelomer phosphate monoester [C8 H6 F13 O4 P, tgt=, overall=69.52, db=69.52]
C14 H17 F13 O	0.1024	4.06	0	C14H17F13O [C14 H17 F13 O, tgt=, overall=25.24, db=25.24]
C11 H6 Cl F13 O2	0.9865	6.77	0	C11H6ClF13O2 [C11 H6 Cl F13 O2, tgt=, overall=41.46, db=41.46]
C9 H3 F17 O3	0.9771	7.15	0	C9H3F17O3 [C9 H3 F17 O3, tgt=, overall=57.39, db=57.39]
C8 H2 F17 N O2 S	0.9501	6.70	0	Perfluorooctanesulfonamide [C8 H2 F17 N O2 S, tgt=, overall=63.71, db=63.71]
C11 H2 F20 O2	0.9735	7.15	0	11-H-Perfluoroundecanoic acid [C11 H2 F20 O2, tgt=, overall=97.44, db=97.44]
C13 H5 F17 O4	0.9887	7.71	0	Monoperfluorooctyl itaconate [C13 H5 F17 O4, tgt=, overall=58.85, db=58.85]
C11 H16 F11 I N2 O2 S	0.9825	7.04	0	POLYFLGSID_880938 [C11 H16 F11 I N2 O2 S, tgt=, overall=53.22, db=53.22]
C12 H3 F21 O2	0.9789	7.29	0	Methyl perfluoroundecanoate [C12 H3 F21 O2, tgt=, overall=55.29, db=55.29]
C10 H F21 O3 S	0.931	7.85	0	Potassium henicosafluorodecanesulphonate [C10 H F21 O3 S, tgt=, overall=96.50, db=96.50]
C13 H F25 O2	0.9548	9.13	0	Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. with ethanamine (1:1) [C13 H F25 O2, tgt=, overall=92.81, db=92.81]
C33 H42 F8 N2 O4	0.3009	13.30	0	POLYFLGSID_880958 [C33 H42 F8 N2 O4, tgt=, overall=83.10, db=83.10]
C14 H2 F24 O4	0.9555	6.38	0	Bis(2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoyl) peroxide [C14 H2 F24 O4, tgt=, overall=96.07, db=96.07]
C17 H F35 O5	0.9221	7.00	0	2H-Tricosafluoro-5,8,11,14-tetrakis(trifluoromethyl)-3,6,9,12,15-pentaoxaoctadecane [C17 H F35 O5, tgt=, overall=70.91, db=70.91]

C4 H F7 O3	0.9822	2.13	0	Perfluoro-3-methoxypropanoic acid [C4 H F7 O3, tgt=, overall=85.45, db=85.45]
C3 H2 O4 S F6	0.9579	1.03	0	C3H2O4SF6 [C3 H2 O4 S F6, tgt=, overall=67.22, db=67.22]
C12 H2 F20 O4	0.9819	5.43	0	Perfluoro-1,10-decanedicarboxylic acid [C12 H2 F20 O4, tgt=, overall=78.50, db=78.50]
C8 H2 F14 O2	0.9844	5.81	0	8-H-Perfluorooctanoic acid [C8 H2 F14 O2, tgt=, overall=87.46, db=87.46]
C6 F13 H O3 S	0.9441	6.29	0	C6F13HO3S [C6 F13 H O3 S, tgt=, overall=80.34, db=80.34]
C9 H2 F16 O2	0.9793	6.34	0	9-H-Perfluorononanoic acid [C9 H2 F16 O2, tgt=, overall=86.37, db=86.37]
C11 H F21 O2	0.963	7.85	0	Perfluoroundecanoic acid [C11 H F21 O2, tgt=, overall=80.82, db=80.82]
0	0.0683	1.73	0	0
0	0.0688	1.32	0	0
0	0.0689	1.19	0	0
0	0.0277	0.83	0	0
0	0.0278	0.31	0	0
0	0.9687	0.70	0	0
0	0.9899	0.86	0	0
0	0.0178	0.36	0	0
0	0.0277	0.76	0	0
0	0.0644	1.33	0	0
0	0.046	0.81	0	0
0	0.0839	2.15	0	0
0	0.0843	1.68	0	0
0	0.0844	1.69	0	0
0	0.0633	0.84	0	0
0	0.0436	0.36	0	0
0	0.0436	0.81	90.25	0
0	0.0437	0.36	0	0
0	0.0226	0.91	0	0
0	0.0384	1.73	0	0
0	0.0398	0.91	0	0
0	0.0406	0.92	0	0
0	0.0427	0.34	0	0
0	0.043	0.92	0	0
0	0.0641	1.21	0	0

0	0.0841	3.83	0	0
0	0.9968	0.40	0	0
0	0.9973	0.30	0	0
0	0.993	0.63	0	0
0	0.0716	0.66	70.67	0
0	0.0859	0.67	0	0
0	0.0211	0.65	0	0
0	0.9977	0.63	0	0
0	0.0458	0.83	0	0
0	0.0276	0.71	0	0
0	0.0631	0.90	57.39	0
0	0.9657	0.37	0	0
0	0.0788	1.01	0	0
0	0.0648	3.52	0	0
0	0.0528	2.10	0	0
0	0.0533	1.47	0	0
0	0.0536	3.99	0	0
0	0.0538	1.27	0	0
0	0.0544	0.36	0	0
0	0.0336	0.95	0	0
0	0.0432	0.49	0	0
0	0.0279	2.89	0	0
0	0.028	2.85	0	0
0	0.0486	0.88	0	0
0	0.063	1.14	0	0
0	0.9609	0.85	0	0
0	0.9964	0.37	0	0
0	0.0074	0.85	0	0
0	0.9571	0.83	0	0
0	0.036	1.16	0	0
0	0.041	0.80	0	0
0	0.0477	0.84	0	0
0	0.0693	1.28	0	0

0	0.0765	1.22	0	0
0	0.0587	0.89	0	0
0	0.0945	1.45	0	0
0	0.9747	0.62	0	0
0	0.0687	2.35	0	0
0	0.0097	4.25	0	0
0	0.048	1.29	0	0
0	0.0483	3.76	0	0
0	0.0491	1.38	0	0
0	0.0502	1.93	0	0
0	0.0513	0.87	83.07	0
0	0.0446	4.71	0	0
0	0.028	1.95	0	0
0	0.0314	0.71	0	0
0	0.0318	0.73	0	0
0	0.0614	0.78	0	0
0	0.0617	0.93	0	0
0	0.0223	2.61	0	0
0	0.0708	1.03	0	0
0	0.0108	0.38	0	0
0	0.0398	0.81	0	0
0	0.0246	0.65	0	0
0	0.0589	0.78	0	0
0	0.0298	1.09	0	0
0	0.0747	0.80	0	0
0	0.0478	0.72	0	0
0	0.0501	0.71	0	0
0	0.0333	0.92	0	0
0	0.083	1.55	0	0
0	0.0267	0.80	0	0
0	0.0284	0.81	0	0
0	0.0288	0.82	0	0

0	0.0491	9.50	0	0
0	0.0634	1.38	0	0
0	0.0404	1.01	0	0
0	0.0427	2.35	0	0
0	0.0434	0.84	0	0
0	0.0435	1.54	0	0
0	0.0502	0.89	0	0
0	0.0549	0.86	0	0
0	0.0605	0.87	0	0
0	0.0717	0.81	0	0
0	0.0382	3.34	0	0
0	0.0495	0.83	0	0
0	0.0525	0.80	0	0
0	0.0598	0.92	83.43	0
0	0.0663	0.97	0	0
0	0.0743	1.25	0	0
0	0.0242	0.91	0	0
0	0.0546	0.82	0	0
0	0.0581	0.87	0	0
0	0.0205	0.95	0	0
0	0.0744	0.88	0	0
0	0.0759	1.97	0	0
0	0.0076	1.58	0	0
0	0.0786	1.50	0	0
0	0.0023	0.82	0	0
0	0.0888	1.22	0	0
0	0.0896	0.93	0	0
0	0.0902	0.84	0	0
0	0.088	1.15	0	0
0	0.9945	0.39	0	0
0	0.9903	0.78	0	0
0	0.0268	0.88	0	0

0	0.062	0.90	0	0
0	0.0644	1.05	0	0
0	0.0998	4.58	0	0
0	0.0427	1.11	0	0
0	0.0432	1.10	0	0
0	0.0783	1.07	0	0
0	0.0231	0.78	0	0
0	0.0606	0.88	0	0
0	0.0683	0.96	0	0
0	0.0932	1.08	0	0
0	0.0937	1.54	0	0
0	0.0209	0.90	0	0
0	0.0387	0.55	0	0
0	0.0405	0.42	0	0
0	0.0408	0.74	0	0
0	0.0497	0.89	0	0
0	0.0148	1.31	0	0
0	0.0397	0.98	0	0
0	0.0599	0.83	0	0
0	0.0699	0.91	0	0
0	0.0184	0.71	0	0
0	0.0533	0.77	0	0
0	0.0895	2.57	0	0
0	0.0896	2.95	0	0
0	0.09	1.93	0	0
0	0.0904	0.96	0	0
0	0.0367	0.70	0	0

0	0.0696	0.86	0	0
0	0.07	0.98	0	0
0	0.0717	1.20	0	0
0	0.0241	0.89	0	0
0	0.0378	0.80	0	0
0	0.0395	4.29	0	0
0	0.0397	1.07	0	0
0	0.0483	0.72	0	0
0	0.0506	0.77	0	0
0	0.0104	0.80	0	0
0	0.0535	0.85	0	0
0	0.0569	0.88	0	0
0	0.058	0.93	0	0
0	0.0591	1.57	0	0
0	0.0973	3.94	0	0
0	0.0902	7.10	0	0
0	0.0908	7.08	0	0
0	0.9353	0.56	0	0
0	0.9971	3.98	0	0
0	0.0365	0.70	0	0
0	0.0369	0.97	0	0
0	0.0382	0.97	0	0
0	0.0389	0.97	0	0
0	0.0397	0.79	0	0
0	0.0727	1.25	0	0
0	0.073	0.97	0	0
0	0.0751	1.47	0	0
0	0.9144	0.72	92.42	0
0	0.9146	0.64	0	0

0	0.0321	0.65	0	0
0	0.0338	1.51	0	0
0	0.0338	1.05	0	0
0	0.0698	5.65	0	0
0	0.0184	2.48	0	0
0	0.0283	1.92	0	0
0	0.0496	0.69	0	0
0	0.0517	0.75	0	0
0	0.0547	0.79	0	0
0	0.0668	0.86	0	0
0	0.0779	0.89	0	0
0	0.0896	0.91	0	0
0	0.9018	0.82	0	0
0	0.9151	0.62	41.46	0
0	0.0348	0.67	0	0
0	0.0604	0.87	85.45	0
0	0.0682	0.88	0	0
0	0.0699	1.22	0	0
0	0.07	1.11	0	0
0	0.0344	0.74	0	0
0	0.9632	6.66	0	0
0	0.0232	3.14	0	0
0	0.0235	1.71	0	0
0	0.0247	1.09	0	0
0	0.0464	1.33	0	0
0	0.0638	0.86	86.86	0
0	0.0972	5.38	0	0
0	0.9052	0.70	0	0
0	0.0288	5.48	0	0
0	0.0248	4.38	0	0
0	0.025	3.23	0	0
0	0.0259	3.24	0	0

0	0.0383	0.82	0	0
0	0.0493	3.23	0	0
0	0.0536	1.20	0	0
0	0.0543	0.84	0	0
0	0.0585	0.82	0	0
0	0.0667	0.83	0	0
0	0.0882	0.81	0	0
0	0.0902	2.52	0	0
0	0.0927	5.29	0	0
0	0.9577	0.61	0	0
0	0.958	0.34	0	0
0	0.9592	0.61	0	0
0	0.0172	0.81	0	0
0	0.0479	1.45	0	0
0	0.0507	0.68	0	0
0	0.0833	6.02	0	0
0	0.0327	1.12	0	0
0	0.0335	0.64	0	0
0	0.0339	0.65	0	0
0	0.0457	2.55	0	0
0	0.0555	4.20	0	0
0	0.0668	4.21	0	0
0	0.0674	0.82	0	0
0	0.0697	0.83	0	0
0	0.0727	0.93	0	0
0	0.0822	0.95	0	0
0	0.0925	0.91	0	0
0	0.0963	1.43	0	0

0	0.9511	0.95	0	0
0	0.9561	0.63	0	0
0	0.9688	0.73	0	0
0	0.0294	1.41	0	0
0	0.0246	0.84	0	0
0	0.0323	1.17	0	0
0	0.0427	4.35	0	0
0	0.047	0.69	0	0
0	0.0835	0.85	0	0
0	0.9253	0.64	0	0
0	0.0597	6.52	0	0
0	0.0355	0.63	0	0
0	0.0361	1.07	0	0
0	0.06	0.80	0	0
0	0.0634	0.75	0	0
0	0.0999	0.91	0	0
0	0.9515	1.14	0	0
0	0.0258	0.79	0	0
0	0.0705	0.87	0	0
0	0.9749	0.75	0	0
0	0.0116	0.56	0	0
0	0.0677	0.86	0	0
0	0.9701	3.02	0	0
0	0.9948	4.27	0	0
0	0.0724	0.90	0	0
0	0.0204	0.58	0	0
0	0.0398	4.66	0	0
0	0.0509	1.10	0	0
0	0.0509	1.09	0	0
0	0.0533	1.07	0	0
0	0.0897	2.88	0	0
0	0.0897	4.50	0	0
0	0.0897	4.15	0	0
0	0.0899	3.36	0	0

0	0.0899	1.09	0	0
0	0.0479	0.75	0	0
0	0.0511	0.72	0	0
0	0.0849	5.19	0	0
0	0.0855	5.96	0	0
0	0.0859	5.16	0	0
0	0.0054	0.70	0	0
0	0.0298	1.02	0	0
0	0.03	1.33	0	0
0	0.0341	0.70	0	0
0	0.0356	0.74	0	0
0	0.068	0.79	0	0
0	0.0689	1.01	0	0
0	0.0701	0.77	0	0
0	0.0881	6.34	0	0
0	0.0986	1.14	0	0
0	0.0337	0.61	0	0
0	0.0118	0.83	0	0
0	0.0125	0.58	0	0
0	0.0516	0.69	0	0
0	0.0564	0.69	0	0
0	0.0628	3.64	0	0
0	0.0704	4.20	0	0
0	0.0705	4.20	0	0
0	0.0842	0.86	0	0
0	0.9364	0.59	0	0
0	0.0434	1.55	0	0

0	0.0458	0.96	0	0
0	0.0472	0.72	0	0
0	0.0495	0.75	0	0
0	0.0645	1.01	0	0
0	0.0716	0.88	0	0
0	0.0636	0.79	0	0
0	0.0961	0.97	0	0
0	0.0983	0.98	0	0
0	0.0999	1.07	0	0
0	0.0954	2.08	0	0
0	0.9558	0.75	0	0
0	0.9619	0.78	0	0
0	0.0295	0.75	0	0
0	0.078	0.81	0	0
0	0.0377	2.45	0	0
0	0.9555	0.79	0	0
0	0.0585	0.70	0	0
0	0.0645	0.83	0	0
0	0.9522	0.72	0	0
0	0.0793	0.82	43.58	0
0	0.0862	0.86	0	0
0	0.0687	0.82	0	0
0	0.0722	0.82	0	0
0	0.0169	5.71	0	0
0	0.017	6.13	0	0
0	0.0348	0.65	0	0
0	0.059	0.83	0	0
0	0.0658	1.32	0	0

0	0.0673	0.86	96.5	0
0	0.0136	0.58	0	0
0	0.014	6.13	0	0
0	0.0491	0.73	0	0
0	0.0805	0.87	0	0
0	0.0852	2.00	0	0
0	0.0854	0.89	0	0
0	0.0855	2.81	0	0
0	0.093	1.16	0	0
0	0.0785	0.86	0	0
0	0.0806	5.40	0	0
0	0.0295	0.65	0	0
0	0.031	0.65	0	0
0	0.0503	3.29	0	0
0	0.0592	0.71	0	0
0	0.0621	0.80	0	0
0	0.0688	6.71	0	0
0	0.0691	12.48	0	0
0	0.0692	6.72	0	0
0	0.0702	0.87	0	0
0	0.0779	5.56	0	0
0	0.0851	0.93	0	0
0	0.0937	0.93	0	0
0	0.0961	0.92	0	0
0	0.0968	1.23	0	0
0	0.0583	0.70	0	0
0	0.9781	0.77	0	0
0	0.0117	0.57	0	0

0	0.0134	0.61	0	0
0	0.0421	0.67	0	0
0	0.0427	0.67	0	0
0	0.0479	4.97	0	0
0	0.0481	5.42	0	0
0	0.0595	3.41	0	0
0	0.06	2.51	0	0
0	0.0624	3.00	0	0
0	0.0641	1.24	0	0
0	0.0765	0.85	0	0
0	0.0771	0.84	0	0
0	0.9077	0.75	0	0
0	0.9077	0.75	86.37	0
0	0.9083	0.69	0	0
0	0.0538	0.69	0	0
0	0.0554	0.72	0	0
0	0.0875	0.66	0	0
0	0.0885	0.92	0	0
0	0.0931	0.51	0	0
0	0.9078	0.61	0	0
0	0.9078	0.61	0	0
0	0.908	0.61	0	0
0	0.9625	1.02	0	0
0	0.0667	0.76	0	0
0	0.9035	0.61	0	0
0	0.9037	0.61	0	0
0	0.0336	1.24	0	0
0	0.0357	0.69	0	0
0	0.0667	0.84	0	0
0	0.0739	0.86	0	0

0	0.9028	0.74	0	0
0	0.0742	0.86	0	0
0	0.0472	0.74	0	0
0	0.0526	0.78	0	0
0	0.0597	0.88	0	0
0	0.0813	0.95	0	0
0	0.9025	0.73	0	0
0	0.0286	0.62	0	0
0	0.0618	0.77	0	0
0	0.0843	0.71	0	0
0	0.0882	0.80	0	0
0	0.0952	0.72	0	0
0	0.098	0.95	0	0
0	0.0943	0.73	0	0
0	0.0961	5.11	0	0
0	0.0025	0.73	0	0
0	0.01	0.73	0	0
0	0.0101	0.73	0	0
0	0.0427	0.68	0	0
0	0.0602	1.92	0	0
0	0.0788	0.84	0	0
0	0.0246	0.58	0	0
0	0.0508	3.71	0	0
0	0.0576	0.70	0	0
0	0.0723	2.53	0	0
0	0.0958	2.01	0	0
0	0.038	0.62	0	0
0	0.0639	0.80	0	0
0	0.0676	2.95	0	0

0	0.0714	0.83	0	0
0	0.0881	7.24	0	0
0	0.0966	1.77	0	0
0	0.0388	0.69	0	0
0	0.0598	6.51	0	0
0	0.0677	0.87	0	0
0	0.033	6.41	0	0
0	0.0661	2.93	0	0
0	0.0717	2.52	0	0
0	0.084	3.85	0	0
0	0.0449	0.71	0	0
0	0.0913	0.92	0	0
0	0.0946	1.12	0	0
0	0.0964	0.89	0	0
0	0.927	0.76	0	0
0	0.0615	0.79	0	0
0	0.0635	0.81	0	0
0	0.0961	1.01	0	0
0	0.097	2.41	0	0
0	0.0976	3.00	0	0
0	0.0979	2.48	0	0
0	0.0785	0.87	0	0
0	0.9245	0.76	0	0
0	0.0092	0.56	0	0
0	0.0438	0.63	0	0
0	0.0777	0.88	0	0
0	0.0787	0.81	0	0
0	0.9225	0.64	0	0
0	0.0215	1.70	0	0
0	0.0245	0.58	0	0
0	0.0565	0.70	0	0
0	0.0567	0.69	0	0
0	0.0754	6.01	0	0
0	0.076	3.29	0	0

0	0.0934	0.90	0	0
0	0.0511	1.33	0	0
0	0.0519	0.19	0	0
0	0.991	5.51	0	0
0	0.0033	0.56	0	0
0	0.0386	0.62	0	0
0	0.0724	7.12	0	0
0	0.0733	0.81	0	0
0	0.9945	5.50	0	0
0	0.0433	0.60	0	0
0	0.0871	0.81	0	0
0	0.0783	0.89	0	0
0	0.0498	1.22	0	0
0	0.0504	2.90	0	0
0	0.0609	0.71	0	0
0	0.0611	0.74	0	0
0	0.0651	0.79	0	0
0	0.0917	5.71	0	0
0	0.0666	2.15	0	0
0	0.0721	0.87	0	0
0	0.0728	0.86	0	0
0	0.0815	1.36	0	0
0	0.0435	0.69	0	0
0	0.0777	0.93	0	0
0	0.0884	0.88	0	0
0	0.0244	0.58	0	0
0	0.0606	0.71	0	0
0	0.0905	0.91	0	0
0	0.0898	2.63	0	0

0	0.0946	2.05	0	0
0	0.0371	0.62	0	0
0	0.073	0.74	0	0
0	0.0736	0.77	0	0
0	0.9904	5.85	0	0
0	0.9907	5.85	0	0
0	0.0196	0.57	0	0
0	0.0872	0.87	0	0
0	0.0354	4.68	0	0
0	0.0345	0.56	0	0
0	0.0638	0.69	0	0
0	0.0956	1.37	0	0
0	0.0411	2.01	0	0
0	0.046	0.63	0	0
0	0.0512	4.97	0	0
0	0.0749	5.89	0	0
0	0.0775	0.82	0	0
0	0.0414	0.89	0	0
0	0.0798	2.50	0	0
0	0.0811	2.85	0	0
0	0.0823	0.87	0	0
0	0.0857	4.04	0	0
0	0.0613	0.74	0	0
0	0.0298	0.59	0	0
0	0.0746	0.83	0	0
0	0.0901	0.90	0	0
0	0.1001	0.95	0	0
0	0.0392	0.62	0	0
0	0.0737	0.75	0	0
0	0.0804	0.80	0	0
0	0.0648	2.77	0	0

0	0.0653	2.08	0	0
0	0.0234	0.59	0	0
0	0.0262	1.00	0	0
0	0.058	0.78	0	0
0	0.0855	0.85	0	0
0	0.0872	0.85	0	0
0	0.082	4.20	0	0
0	0.0349	0.58	0	0
0	0.066	0.70	0	0
0	0.0437	5.43	0	0
0	0.0673	0.71	0	0
0	0.9855	6.09	0	0
0	0.9858	6.73	0	0
0	0.0781	0.80	0	0
0	0.0868	0.79	0	0
0	0.0801	0.81	0	0
0	0.0614	0.74	0	0
0	0.0913	0.86	0	0
0	0.0363	4.05	0	0
0	0.0416	4.04	0	0
0	0.0803	3.55	0	0
0	0.089	0.89	0	0
0	0.0928	0.91	0	0
0	0.0125	5.78	0	0
0	0.0135	5.30	0	0
0	0.0778	0.79	0	0
0	0.0751	0.79	0	0
0	0.0806	0.76	0	0
0	0.086	0.87	0	0
0	0.0533	0.65	0	0

0	0.0602	0.81	0	0
0	0.0886	0.89	0	0
0	0.0901	0.82	0	0
0	0.0855	7.10	0	0
0	0.0057	4.31	0	0
0	0.0352	0.58	0	0
0	0.0687	0.69	0	0
0	0.072	0.72	0	0
0	0.0984	0.86	0	0
0	0.0981	4.28	0	0
0	0.0458	0.61	0	0
0	0.0829	0.81	0	0
0	0.0584	1.37	0	0
0	0.0386	0.85	0	0
0	0.0609	0.66	0	0
0	0.0866	7.85	0	0
0	0.0873	14.30	0	0
0	0.099	0.83	0	0
0	0.0973	4.12	0	0
0	0.9867	5.51	0	0
0	0.9877	5.51	0	0
0	0.0859	7.95	0	0
0	0.0557	4.46	0	0
0	0.9749	6.80	0	0
0	0.0988	0.88	0	0
0	0.0864	0.83	0	0
0	0.0574	0.70	0	0
0	0.0911	0.84	0	0
0	0.0388	0.59	0	0
0	0.0561	6.53	0	0
0	0.0687	0.70	0	0
0	0.0696	0.72	0	0
0	0.0185	0.55	0	0
0	0.0383	0.58	0	0
0	0.0837	0.74	0	0

0	0.0884	0.86	0	0
0	0.0367	1.16	0	0
0	0.0613	0.63	0	0
0	0.0669	0.64	0	0
0	0.0901	1.03	0	0
0	0.0981	0.72	0	0
0	0.099	0.89	0	0
0	0.0722	4.64	0	0
0	0.0724	5.29	0	0
0	0.0731	5.29	0	0
0	0.0734	4.21	0	0
0	0.093	2.73	0	0
0	0.0512	0.60	0	0
0	0.0538	1.10	0	0
0	0.0719	0.67	0	0
0	0.0777	0.73	0	0
0	0.0799	0.68	0	0
0	0.9222	0.88	0	0
0	0.9868	1.82	0	0
0	0.0386	1.86	0	0
0	0.0612	0.63	0	0
0	0.0772	5.60	0	0
0	0.0703	0.76	0	0
0	0.0891	0.79	0	0
0	0.9192	0.87	0	0
0	0.9166	0.87	0	0
0	0.9861	6.43	0	0
0	0.0205	1.68	0	0
0	0.9582	6.09	0	0
0	0.0809	0.72	0	0
0	0.9554	6.08	0	0
0	0.0306	0.57	0	0
0	0.054	2.69	0	0
0	0.0541	3.74	0	0
0	0.0544	3.53	0	0
0	0.055	2.85	66.38	0

0	0.0555	1.45	0	0
0	0.0561	2.04	0	0
0	0.0651	0.67	0	0
0	0.0877	6.66	0	0
0	0.0086	3.34	0	0
0	0.0701	0.64	0	0
0	0.0879	1.92	0	0
0	0.0954	0.72	0	0
0	0.0908	0.81	0	0
0	0.0678	0.65	0	0
0	0.9816	6.65	0	0
0	0.0432	0.61	0	0
0	0.0991	0.83	0	0
0	0.9776	7.06	0	0
0	0.0504	0.58	0	0
0	0.052	4.68	0	0
0	0.0531	3.87	0	0
0	0.0531	4.51	0	0
0	0.0532	5.11	0	0
0	0.0773	0.69	0	0
0	0.0799	0.69	0	0
0	0.0576	0.59	0	0
0	0.0612	0.63	0	0
0	0.0959	0.71	0	0
0	0.0981	0.75	0	0
0	0.0676	0.66	0	0
0	0.0877	3.61	0	0
0	0.0877	0.72	0	0
0	0.9806	6.32	0	0
0	0.0391	5.44	0	0
0	0.0817	4.89	0	0
0	0.0414	6.20	0	0
0	0.0483	0.72	0	0
0	0.0932	0.78	0	0
0	0.0987	0.74	0	0
0	0.0676	0.64	0	0
0	0.9455	7.02	0	0
0	0.0253	5.97	0	0
0	0.062	0.58	0	0

0	0.0833	0.67	0	0
0	0.0902	0.68	0	0
0	0.0998	4.82	0	0
0	0.0619	4.64	0	0
0	0.062	5.35	0	0
0	0.0628	5.36	0	0
0	0.0632	4.21	0	0
0	0.0673	0.61	0	0
0	0.0775	4.58	0	0
0	0.9931	6.71	0	0
0	0.0575	0.61	0	0
0	0.0639	5.14	0	0
0	0.0614	0.63	0	0
0	0.0802	0.70	0	0
0	0.0572	0.62	0	0
0	0.0934	0.74	0	0
0	0.0804	0.75	0	0
0	0.0544	0.59	0	0
0	0.0646	0.60	0	0
0	0.0889	0.69	0	0
0	0.0943	0.69	0	0
0	0.9562	6.61	0	0
0	0.0826	0.67	0	0
0	0.0719	0.63	0	0
0	0.0881	0.70	0	0
0	0.0639	0.64	0	0
0	0.0911	0.70	0	0
0	0.9797	0.80	0	0
0	0.9754	0.82	0	0
0	0.0157	1.48	74.18	0
0	0.084	0.67	0	0
0	0.0901	0.67	0	0
0	0.0956	0.68	0	0
0	0.9737	0.80	0	0
0	0.0868	0.69	0	0
0	0.0374	1.64	0	0
0	0.0676	0.60	0	0

0	0.953	6.26	0	0
0	0.0287	6.26	0	0
0	0.0657	0.63	0	0
0	0.069	0.64	0	0
0	0.9374	1.99	0	0
0	0.9565	1.34	0	0
0	0.0879	0.69	0	0
0	0.0515	4.48	0	0
0	0.0966	0.69	0	0
0	0.0742	0.62	0	0
0	0.9737	7.07	0	0
0	0.0652	4.89	0	0
0	0.07	0.68	0	0
0	0.9683	7.38	0	0
0	0.9863	6.71	0	0
0	0.0682	2.64	0	0
0	0.0713	0.63	0	0
0	0.0567	7.11	0	0
0	0.0576	9.22	0	0
0	0.9969	0.78	0	0
0	0.0568	0.59	0	0
0	0.9934	7.11	0	0
0	0.9947	0.78	0	0
0	0.9978	0.71	0	0
0	0.092	0.69	0	0
0	0.9693	7.21	0	0
0	0.9799	6.76	0	0
0	0.067	0.60	0	0
0	0.9899	5.72	0	0
0	0.076	0.62	0	0
0	0.0859	0.65	0	0
0	0.9926	5.69	80.68	0
0	0.0723	5.71	0	0
0	0.9723	5.43	0	0
0	0.0977	0.66	0	0
0	0.0231	0.66	0	0
0	0.0793	0.62	0	0
0	0.9752	7.13	0	0
0	0.0668	0.59	0	0

0	0.0475	1.35	0	0
0	0.9867	5.41	0	0
0	0.0784	0.70	0	0
0	0.0951	0.71	0	0
0	0.059	0.61	0	0
0	0.0679	0.62	0	0
0	0.092	0.70	0	0
0	0.9655	7.90	0	0
0	0.0869	1.68	0	0
0	0.9859	7.11	0	0
0	0.9765	7.48	0	0
0	0.0982	0.76	0	0
0	0.9276	3.67	0	0
0	0.9278	3.26	0	0
0	0.981	7.49	0	0
0	0.9246	3.27	0	0
0	0.9259	3.69	0	0
0	0.0462	4.46	0	0
0	0.0654	0.60	0	0
0	0.056	4.60	0	0
0	0.0948	0.65	0	0
0	0.9757	6.77	0	0
0	0.9337	3.54	0	0
0	0.9338	3.81	0	0
0	0.9299	3.50	0	0
0	0.931	3.82	0	0
0	0.9509	7.10	89.05	0
0	0.0991	4.08	0	0
0	0.9737	7.49	0	0
0	0.9772	7.89	0	0
0	0.0746	7.32	0	0
0	0.9561	7.23	0	0
0	0.0709	7.30	0	0
0	0.9739	7.53	0	0
0	0.9229	3.24	0	0
0	0.9243	3.70	26.94	0
0	0.9196	3.69	0	0
0	0.9201	3.26	0	0
0	0.9114	7.02	0	0
0	0.9788	7.53	0	0

0	0.9301	3.95	0	0
0	0.9731	7.10	0	0
0	0.9278	3.95	0	0
0	0.9695	7.90	0	0
0	0.971	7.98	0	0
0	0.9773	7.02	0	0
0	0.0133	7.09	0	0
0	0.9683	7.55	0	0
0	0.9774	7.89	0	0
0	0.9788	7.44	0	0
0	0.9953	6.72	0	0
0	0.9652	8.31	0	0
0	0.966	8.17	0	0
0	0.9656	9.12	0	0
0	0.9615	8.11	0	0
0	0.9753	7.67	0	0
0	0.9611	5.96	0	0
0	0.9845	7.58	0	0
0	0.9658	8.04	0	0
0	0.9736	8.45	0	0
0	0.9616	6.89	0	0
0	0.9649	6.96	0	0
0	0.0358	5.29	0	0
0	0.9616	10.08	0	0
0	0.9619	9.65	0	0
0	0.9634	13.87	0	0
0	0.0312	6.58	0	0
0	0.0631	9.01	0	0
0	0.9571	6.47	0	0
0	0.9861	7.50	0	0
0	0.9392	6.17	0	0
0	0.0323	7.02	0	0
0	0.0458	12.77	0	0
0	0.9456	6.69	0	0
0	0.9492	7.14	0	0
0	0.931	13.77	0	0
0	0.0288	6.27	0	0
0	0.9599	6.69	0	0
0	0.9416	7.05	0	0

0	0.9883	8.33	0	0
0	0.0379	6.72	0	0
0	0.9571	7.09	0	0
0	0.0083	0.39	0	0
0	0.0235	0.36	0	0
0	0.0236	0.38	0	0
0	0.0236	0.82	0	0
0	0.9971	0.65	0	0
0	0.9979	0.66	0	0
0	0.9981	0.48	0	0
0	0.908	7.54	0	0
0	0.9761	6.69	0	0
0	0.9316	14.03	0	0
0	0.9366	7.02	0	0
0	0.965	7.04	68.82	0
0	0.9792	14.19	0	0
0	0.0188	14.30	0	0
0	0.0625	14.41	0	0
0	0.1204	1.99	0	0
0	0.121	1.21	0	0
0	0.1352	0.63	0	0
0	0.115	4.97	0	0
0	0.1155	4.98	0	0
0	0.1312	5.94	0	0
0	0.1314	5.95	0	0
0	0.1097	2.57	0	0
0	0.1112	1.19	0	0
0	0.1469	6.48	0	0
0	0.1067	2.02	0	0
0	0.1251	4.33	0	0
0	0.1043	1.36	0	0
0	0.1677	5.43	0	0
0	0.376	1.00	0	0

0	0.1103	1.39	0	0
0	0.1257	4.23	0	0
0	0.1042	2.26	0	0
0	0.1049	1.81	0	0
0	0.105	0.36	0	0
0	0.1055	1.43	0	0
0	0.1057	1.42	0	0
0	0.1058	0.93	0	0
0	0.1059	1.43	0	0
0	0.1406	5.31	0	0
0	0.1163	6.45	0	0
0	0.1678	5.44	0	0
0	0.8607	0.78	0	0
0	0.1048	0.98	0	0
0	0.1048	1.61	0	0
0	0.1049	3.35	0	0
0	0.859	0.78	0	0
0	0.1012	4.28	0	0
0	0.1014	4.30	0	0
0	0.1024	4.29	0	0
0	0.1071	1.29	0	0
0	0.1203	0.40	0	0
0	0.1213	3.34	0	0
0	0.1214	1.15	0	0
0	0.1214	3.28	0	0
0	0.1215	1.96	0	0
0	0.1216	1.45	0	0
0	0.1216	2.81	0	0
0	0.1218	1.16	0	0
0	0.1178	2.92	0	0
0	0.1185	2.64	0	0
0	0.1255	1.95	0	0
0	0.127	1.36	62.18	0
0	0.1669	8.78	0	0
0	0.1146	5.10	0	0
0	0.1465	5.43	0	0
0	0.1468	6.65	0	0
0	0.1021	3.42	0	0
0	0.1026	4.53	0	0
0	0.1028	3.98	0	0

0	0.1379	0.60	0	0
0	0.2542	0.57	0	0
0	0.105	4.39	0	0
0	0.1052	2.27	0	0
0	0.1416	6.63	0	0
0	0.1383	0.55	0	0
0	0.1195	3.91	0	0
0	0.1198	0.99	0	0
0	0.12	1.37	0	0
0	0.1201	1.86	0	0
0	0.121	1.48	0	0
0	0.1568	4.50	0	0
0	0.1568	5.58	0	0
0	0.1165	5.02	0	0
0	0.117	5.00	0	0
0	0.8886	0.81	0	0
0	0.1041	0.87	0	0
0	0.1357	3.89	0	0
0	0.1361	4.27	0	0
0	0.1366	2.31	0	0
0	0.1367	4.58	0	0
0	0.1368	2.67	0	0
0	0.1368	1.43	0	0
0	0.137	4.15	0	0
0	0.1371	1.68	0	0
0	0.1372	4.56	0	0
0	0.1375	1.43	0	0
0	0.1165	0.86	0	0
0	0.1167	1.52	0	0
0	0.1125	5.38	0	0
0	0.1281	1.74	0	0

0	0.8825	0.76	84.7	0
0	0.1005	2.69	0	0
0	0.1043	3.12	0	0
0	0.142	6.49	0	0
0	0.2154	1.02	0	0
0	0.8798	0.76	0	0
0	0.104	6.48	0	0
0	0.1175	1.30	0	0
0	0.1564	5.41	0	0
0	0.878	0.76	0	0
0	0.1002	1.28	0	0
0	0.1008	2.06	0	0
0	0.1358	4.53	0	0
0	0.1726	6.25	0	0
0	0.2084	8.82	0	0
0	0.1145	0.91	0	0
0	0.1512	3.64	97.58	0
0	0.1514	2.91	0	0
0	0.1516	5.14	0	0
0	0.1521	2.08	0	0
0	0.1523	2.80	0	0
0	0.1525	2.04	0	0
0	0.1525	5.43	0	0
0	0.1525	5.43	0	0
0	0.1526	3.25	0	0
0	0.1293	1.25	0	0
0	0.1301	1.33	0	0
0	0.1304	0.48	0	0
0	0.1313	0.91	0	0
0	0.1623	7.60	0	0
0	0.1037	1.06	0	0
0	0.1412	5.00	0	0
0	0.1126	5.87	0	0

0	0.1189	3.91	0	0
0	0.1213	1.18	0	0
0	0.1097	1.68	0	0
0	0.1333	1.49	0	0
0	0.1353	4.58	0	0
0	0.1359	1.18	0	0
0	0.1363	5.99	0	0
0	0.1371	5.99	0	0
0	0.2097	8.43	0	0
0	0.2691	0.87	0	0
0	0.1109	0.97	0	0
0	0.1167	2.55	0	0
0	0.1199	3.21	0	0
0	0.1505	4.63	0	0
0	0.2247	9.14	0	0
0	0.2248	9.70	0	0
0	0.1476	6.23	0	0
0	0.1483	6.21	66.72	0
0	0.1279	1.53	0	0
0	0.1291	1.56	0	0
0	0.1299	1.11	0	0
0	0.1653	5.74	0	0
0	0.1661	6.09	0	0
0	0.1673	6.10	0	0
0	0.1678	3.23	0	0
0	0.1681	4.80	83.1	0
0	0.1681	2.69	0	0
0	0.1682	4.49	0	0
0	0.1683	4.49	0	0
0	0.1684	3.85	0	0
0	0.1684	3.82	0	0

0	0.1686	4.22	0	0
0	0.169	4.22	0	0
0	0.1652	5.72	0	0
0	0.1422	1.74	0	0
0	0.1437	1.50	0	0
0	0.101	0.92	0	0
0	0.1057	0.87	0	0
0	0.1058	1.09	0	0
0	0.1024	4.28	0	0
0	0.126	3.34	0	0
0	0.177	6.64	0	0
0	0.1203	1.19	0	0
0	0.1226	5.51	0	0
0	0.1567	6.35	0	0
0	0.1573	7.10	0	0
0	0.1004	4.14	0	0
0	0.1011	1.76	0	0
0	0.1022	2.21	0	0
0	0.1252	0.64	0	0
0	0.1358	0.73	0	0
0	0.1377	5.33	0	0
0	0.1473	0.66	0	0
0	0.17	4.82	0	0
0	0.1707	0.67	0	0
0	0.2673	0.63	0	0
0	0.8992	0.73	80.34	0
0	0.1101	0.99	0	0
0	0.1157	3.65	0	0
0	0.121	2.26	0	0
0	0.1514	4.80	0	0
0	0.1519	5.00	0	0
0	0.152	4.97	0	0
0	0.1874	6.56	0	0

0	0.2245	9.58	85.74	0
0	0.2258	8.74	0	0
0	0.8977	0.73	0	0
0	0.8247	0.63	0	0
0	0.1282	1.60	0	0
0	0.1286	1.21	0	0
0	0.1304	2.10	0	0
0	0.2041	6.75	0	0
0	0.2047	6.40	0	0
0	0.2058	6.38	0	0
0	0.2392	9.34	0	0
0	0.2396	12.91	0	0
0	0.2399	9.70	0	0
0	0.2407	10.86	0	0
0	0.2409	10.79	0	0
0	0.2409	10.88	0	0
0	0.1052	0.95	0	0
0	0.1071	0.91	0	0
0	0.1422	2.11	0	0
0	0.1829	6.32	0	0
0	0.1829	3.97	0	0
0	0.1831	5.69	0	0
0	0.1832	5.33	0	0
0	0.1836	6.75	99.17	0
0	0.1836	4.47	0	0
0	0.1837	4.76	0	0
0	0.1838	5.33	0	0
0	0.1839	6.75	0	0
0	0.1845	4.49	0	0
0	0.1091	1.43	0	0
0	0.1092	1.03	0	0

0	0.1171	0.95	0	0
0	0.1622	1.80	0	0
0	0.1624	2.20	0	0
0	0.1624	2.22	0	0
0	0.1628	1.53	0	0
0	0.1184	0.96	0	0
0	0.1202	1.25	0	0
0	0.1223	0.96	0	0
0	0.117	5.02	0	0
0	0.118	2.94	0	0
0	0.1352	1.93	0	0
0	0.137	1.41	0	0
0	0.1437	6.29	0	0
0	0.1499	2.20	0	0
0	0.1717	7.03	0	0
0	0.1728	7.03	0	0
0	0.1163	1.91	0	0
0	0.1334	4.08	0	0
0	0.1336	4.42	0	0
0	0.1131	1.00	0	0
0	0.1211	3.52	0	0
0	0.1534	5.95	0	0
0	0.1556	7.43	0	0
0	0.1643	6.70	0	0
0	0.111	4.93	0	0
0	0.1114	6.19	0	0
0	0.1492	8.07	0	0
0	0.1263	1.19	0	0
0	0.1664	5.68	0	0
0	0.1065	0.92	0	0
0	0.1088	0.92	0	0

0	0.1104	0.88	0	0
0	0.1459	4.94	0	0
0	0.2186	7.14	0	0
0	0.2191	7.43	0	0
0	0.2549	11.88	0	0
0	0.2567	9.99	81.63	0
0	0.1423	3.78	0	0
0	0.1431	4.07	0	0
0	0.1441	4.05	0	0
0	0.1242	0.93	0	0
0	0.1246	0.97	0	0
0	0.1248	1.27	0	0
0	0.1254	0.07	0	0
0	0.1454	3.87	0	0
0	0.1638	6.80	0	0
0	0.1969	5.95	0	0
0	0.1971	7.17	0	0
0	0.1972	5.34	0	0
0	0.1975	5.32	0	0
0	0.1976	7.19	0	0
0	0.1978	6.30	86.61	0
0	0.1999	6.83	0	0
0	0.2356	8.37	55.53	0
0	0.1311	1.22	0	0
0	0.1375	1.46	0	0
0	0.1746	3.08	0	0
0	0.1775	2.78	0	0
0	0.178	2.21	0	0
0	0.2138	8.77	0	0
0	0.1364	1.73	0	0
0	0.1369	1.22	0	0
0	0.108	3.32	0	0
0	0.1194	7.14	0	0

0	0.1239	6.99	0	0
0	0.1503	6.44	0	0
0	0.1542	5.44	0	0
0	0.1692	6.93	0	0
0	0.1057	1.00	0	0
0	0.1152	4.84	0	0
0	0.1169	5.24	0	0
0	0.1115	1.03	0	0
0	0.1123	3.82	0	0
0	0.1149	4.13	0	0
0	0.1516	6.54	0	0
0	0.1537	6.77	0	0
0	0.1556	6.78	0	0
0	0.1847	6.48	0	0
0	0.1874	6.46	0	0
0	0.1874	7.40	0	0
0	0.1877	6.47	0	0
0	0.1886	7.80	0	0
0	0.1265	2.30	0	0
0	0.1307	1.43	0	0
0	0.1461	3.96	0	0
0	0.147	4.35	0	0
0	0.1325	3.74	0	0
0	0.1335	5.05	0	0
0	0.1651	6.01	0	0
0	0.1668	6.73	0	0
0	0.1716	7.45	0	0
0	0.2407	10.57	98.06	0
0	0.2414	10.05	0	0
0	0.1082	0.90	0	0
0	0.1184	1.39	0	0
0	0.133	1.59	0	0
0	0.1443	1.41	0	0
0	0.1451	1.74	0	0
0	0.1619	5.25	0	0

0	0.1769	4.75	0	0
0	0.1795	5.49	0	0
0	0.2559	12.22	0	0
0	0.256	11.87	0	0
0	0.256	10.64	0	0
0	0.2563	11.85	92.81	0
0	0.2575	11.43	0	0
0	0.1039	3.30	0	0
0	0.1067	5.32	0	0
0	0.107	6.46	0	0
0	0.1407	2.55	0	0
0	0.1217	0.95	0	0
0	0.1231	1.07	0	0
0	0.2708	13.32	0	0
0	0.2714	11.98	0	0
0	0.1019	0.87	0	0
0	0.1145	0.99	0	0
0	0.1314	1.13	0	0
0	0.1353	1.21	0	0
0	0.1372	0.07	0	0
0	0.1374	0.99	0	0
0	0.1376	1.53	0	0
0	0.2133	5.98	0	0
0	0.2146	6.73	0	0
0	0.215	6.24	0	0
0	0.2153	6.25	0	0
0	0.2488	8.79	0	0
0	0.2509	8.03	0	0

0	0.1039	0.95	0	0
0	0.1137	3.76	0	0
0	0.2304	9.57	0	0
0	0.152	2.41	0	0
0	0.1522	1.78	0	0
0	0.153	2.14	0	0
0	0.154	1.63	0	0
0	0.1545	1.69	0	0
0	0.1551	0.42	0	0
0	0.1013	2.40	0	0
0	0.1475	6.22	0	0
0	0.1477	6.21	0	0
0	0.1479	6.21	0	0
0	0.7962	0.74	0	0
0	0.125	1.57	0	0
0	0.1656	5.27	0	0
0	0.1663	7.36	0	0
0	0.1667	6.89	0	0
0	0.2054	8.34	0	0
0	0.206	8.34	0	0
0	0.2158	0.34	0	0
0	0.1086	0.95	0	0
0	0.1494	1.04	0	0
0	0.1791	4.97	0	0
0	0.1822	6.45	69.52	0
0	0.1823	5.36	0	0
0	0.1831	5.86	0	0
0	0.184	5.90	0	0
0	0.1847	5.90	0	0
0	0.1861	8.23	0	0
0	0.1864	8.34	0	0
0	0.2204	8.93	0	0
0	0.103	5.21	0	0

0	0.1032	4.90	0	0
0	0.1432	6.73	0	0
0	0.1052	4.27	0	0
0	0.1117	0.90	0	0
0	0.1209	1.01	0	0
0	0.2717	12.97	0	0
0	0.2724	12.60	0	0
0	0.1223	6.35	0	0
0	0.1039	0.86	0	0
0	0.1059	0.88	0	0
0	0.1357	1.20	0	0
0	0.1416	3.98	0	0
0	0.1604	7.59	0	0
0	0.1604	7.59	0	0
0	0.2292	7.56	0	0
0	0.2492	8.05	0	0
0	0.25	7.57	0	0
0	0.2502	8.08	0	0
0	0.251	9.20	0	0
0	0.2809	13.77	0	0
0	0.2854	13.24	0	0
0	0.2872	12.30	0	0
0	0.2877	13.02	0	0
0	0.1122	0.88	0	0
0	0.1126	0.89	0	0
0	0.1149	0.90	0	0
0	0.1422	1.31	0	0
0	0.1879	5.78	0	0
0	0.2074	9.48	0	0
0	0.2085	9.02	0	0
0	0.2264	7.60	0	0
0	0.2285	6.97	0	0

0	0.229	7.95	0	0
0	0.2294	6.54	0	0
0	0.2298	6.55	0	0
0	0.265	9.69	0	0
0	0.2653	8.40	98.08	0
0	0.2681	7.75	0	0
0	0.1193	1.07	0	0
0	0.1318	6.13	0	0
0	0.1614	9.23	0	0
0	0.1639	9.22	0	0
0	0.1652	1.45	0	0
0	0.1679	2.26	0	0
0	0.1716	14.68	0	0
0	0.1729	9.88	0	0
0	0.2079	4.36	0	0
0	0.2094	7.51	0	0
0	0.2096	4.75	0	0
0	0.2419	10.80	0	0
0	0.2426	10.87	0	0
0	0.1654	2.19	0	0
0	0.1676	2.60	0	0
0	0.168	2.98	0	0
0	0.1693	2.95	0	0
0	0.1013	4.22	0	0
0	0.117	2.38	0	0
0	0.1635	6.53	0	0
0	0.1644	6.51	53.22	0
0	0.1687	6.53	0	0
0	0.1881	6.76	0	0
0	0.2069	8.65	0	0
0	0.2395	12.47	0	0
0	0.1454	1.83	0	0
0	0.1458	1.15	0	0
0	0.1469	1.50	0	0
0	0.1473	4.93	0	0
0	0.108	0.90	0	0
0	0.1107	4.30	0	0
0	0.1436	5.28	94.2	0
0	0.1437	5.30	0	0

0	0.2221	8.80	96.6	0
0	0.2235	8.94	0	0
0	0.1618	3.22	0	0
0	0.1619	4.44	0	0
0	0.1317	8.97	0	0
0	0.1815	9.06	0	0
0	0.1817	2.76	0	0
0	0.1961	6.75	0	0
0	0.1979	7.58	0	0
0	0.1992	7.22	0	0
0	0.2021	8.67	0	0
0	0.1044	0.87	0	0
0	0.1114	2.17	0	0
0	0.1312	1.22	0	0
0	0.1333	1.25	0	0
0	0.1754	3.59	0	0
0	0.1756	2.93	0	0
0	0.1764	5.29	0	0
0	0.1765	5.67	0	0
0	0.1766	2.99	0	0
0	0.1776	5.74	0	0
0	0.1797	6.87	0	0
0	0.1809	7.72	0	0
0	0.1954	9.92	0	0
0	0.2478	7.64	0	0
0	0.2868	13.59	0	0
0	0.2871	13.64	0	0
0	0.1149	0.90	0	0
0	0.1341	6.75	0	0
0	0.1521	1.31	0	0
0	0.1547	1.28	0	0
0	0.1758	8.03	0	0
0	0.1766	8.03	0	0
0	0.1887	5.13	0	0
0	0.1923	6.67	0	0

0	0.1924	5.14	0	0
0	0.194	4.71	0	0
0	0.2288	6.94	0	0
0	0.2644	7.85	99.49	0
0	0.3003	14.07	0	0
0	0.3021	13.41	0	0
0	0.123	3.28	0	0
0	0.1258	1.01	0	0
0	0.1356	0.90	0	0
0	0.1698	2.83	0	0
0	0.1708	1.85	0	0
0	0.1713	2.35	0	0
0	0.1723	1.82	0	0
0	0.1728	2.88	99.58	0
0	0.243	7.17	0	0
0	0.2441	6.52	0	0
0	0.2451	7.99	0	0
0	0.2454	9.37	0	0
0	0.2803	8.31	0	0
0	0.2824	8.81	0	0
0	0.8181	0.70	0	0
0	0.1016	0.89	0	0
0	0.1118	1.71	0	0
0	0.1684	5.48	0	0
0	0.2143	5.32	0	0
0	0.2618	11.82	70.91	0
0	0.1072	0.89	0	0
0	0.1817	4.15	0	0
0	0.1832	4.14	0	0
0	0.2568	9.66	0	0
0	0.8141	0.69	0	0
0	0.1094	3.50	0	0
0	0.1096	4.24	0	0
0	0.1101	3.52	0	0

0	0.1116	2.85	0	0
0	0.1136	0.99	0	0
0	0.1222	2.49	0	0
0	0.1569	3.94	0	0
0	0.161	4.14	0	0
0	0.2385	9.35	63.71	0
0	0.177	5.18	0	0
0	0.1091	0.84	0	0
0	0.1143	0.86	0	0
0	0.1769	6.91	0	0
0	0.2136	7.66	0	0
0	0.2167	9.35	0	0
0	0.2179	9.78	0	0
0	0.2266	8.30	0	0
0	0.2509	10.07	0	0
0	0.1139	0.94	0	0
0	0.1145	0.96	0	0
0	0.1193	1.39	0	0
0	0.1772	7.84	0	0
0	0.1842	5.03	0	0
0	0.1939	7.22	0	0
0	0.2277	10.61	0	0
0	0.3023	13.98	0	0
0	0.3028	13.51	0	0
0	0.1131	5.02	0	0
0	0.1021	0.87	0	0
0	0.1225	0.99	0	0
0	0.1682	4.61	0	0
0	0.1697	2.75	0	0
0	0.1716	5.34	0	0
0	0.1721	2.25	0	0
0	0.1903	8.24	0	0
0	0.1917	8.58	0	0
0	0.1919	8.19	0	0

0	0.2033	6.66	0	0
0	0.204	7.87	0	0
0	0.2071	7.09	0	0
0	0.2083	5.15	80.82	0
0	0.2712	8.25	0	0
0	0.3166	14.01	0	0
0	0.3167	14.31	0	0
0	0.1031	0.85	0	0
0	0.1079	0.86	0	0
0	0.129	1.28	0	0
0	0.1398	4.43	0	0
0	0.173	6.49	0	0
0	0.1817	3.01	0	0
0	0.1829	3.63	0	0
0	0.2593	7.89	0	0
0	0.2606	7.41	0	0
0	0.2623	11.70	0	0
0	0.2628	11.34	0	0
0	0.104	0.88	0	0
0	0.1921	8.21	0	0
0	0.1125	6.21	0	0
0	0.1142	2.06	0	0
0	0.1321	2.60	0	0
0	0.1619	5.90	0	0
0	0.1999	10.74	0	0
0	0.2394	6.89	0	0
0	0.2746	13.32	0	0
0	0.1984	4.53	0	0
0	0.1987	4.90	0	0
0	0.1996	4.19	0	0
0	0.1997	3.73	0	0
0	0.1241	1.38	0	0
0	0.1258	1.19	0	0
0	0.1569	5.92	0	0

0	0.1923	7.66	67.22	0
0	0.1931	6.33	0	0
0	0.1013	0.86	0	0
0	0.1209	5.46	0	0
0	0.1026	0.86	0	0
0	0.1166	0.94	0	0
0	0.2078	6.48	0	0
0	0.2115	7.32	0	0
0	0.2284	8.39	0	0
0	0.2529	10.23	0	0
0	0.2538	11.71	0	0
0	0.1327	5.38	0	0
0	0.1751	4.90	0	0
0	0.1863	5.76	0	0
0	0.1169	0.93	0	0
0	0.12	4.28	0	0
0	0.1213	1.09	0	0
0	0.1293	8.53	0	0
0	0.192	5.76	0	0
0	0.2565	10.50	0	0
0	0.1212	5.09	0	0
0	0.162	6.95	0	0
0	0.1046	0.86	0	0
0	0.1318	1.18	49.8	0
0	0.1379	9.24	0	0
0	0.2046	6.02	0	0
0	0.2112	8.53	0	0
0	0.2814	8.76	0	0
0	0.2826	9.11	55.29	0
0	0.3178	13.84	0	0
0	0.3181	14.19	0	0
0	0.2048	6.56	0	0
0	0.1121	0.85	0	0
0	0.1149	0.88	0	0
0	0.1153	0.85	0	0
0	0.12	0.92	0	0
0	0.1529	3.01	0	0

0	0.1529	3.30	0	0
0	0.1536	4.05	0	0
0	0.2053	8.67	0	0
0	0.2069	9.27	0	0
0	0.2233	5.82	0	0
0	0.296	8.99	0	0
0	0.2966	9.47	0	0
0	0.3256	14.58	0	0
0	0.3263	14.32	0	0
0	0.3268	14.56	0	0
0	0.3275	14.24	0	0
0	0.3285	14.57	0	0
0	0.109	3.80	0	0
0	0.1031	0.83	0	0
0	0.1118	3.57	0	0
0	0.1867	6.86	0	0
0	0.2021	6.01	0	0
0	0.271	7.57	0	0
0	0.2726	11.28	0	0
0	0.274	10.86	0	0
0	0.2762	12.66	0	0
0	0.3125	9.38	0	0
0	0.1074	0.87	0	0
0	0.1493	3.84	0	0
0	0.1499	4.01	0	0
0	0.1504	5.74	0	0
0	0.2534	6.41	0	0
0	0.2556	6.38	0	0
0	0.2578	8.99	0	0
0	0.2622	8.61	0	0
0	0.2881	8.23	0	0
0	0.1033	0.85	0	0
0	0.2087	5.68	0	0

0	0.2127	5.77	0	0
0	0.2133	4.51	0	0
0	0.2135	5.17	0	0
0	0.2139	5.09	0	0
0	0.2872	12.01	0	0
0	0.1053	3.31	0	0
0	0.1711	5.16	0	0
0	0.1917	4.07	0	0
0	0.1923	4.47	0	0
0	0.1165	0.95	46.85	0
0	0.1575	5.92	0	0
0	0.1598	5.91	0	0
0	0.1757	9.76	0	0
0	0.1828	5.54	0	0
0	0.1835	4.48	0	0
0	0.1893	6.48	0	0
0	0.2183	6.17	0	0
0	0.2303	7.49	0	0
0	0.25	10.31	0	0
0	0.2066	6.22	0	0
0	0.2077	6.73	0	0
0	0.1063	1.68	0	0
0	0.113	0.88	0	0
0	0.1262	0.93	0	0
0	0.2438	11.66	0	0
0	0.2443	11.34	0	0
0	0.2803	9.57	0	0
0	0.2806	9.32	0	0
0	0.1304	4.95	0	0
0	0.1787	9.82	0	0
0	0.1138	5.11	58.85	0
0	0.1172	0.89	0	0
0	0.1259	0.94	0	0
0	0.1451	1.39	0	0
0	0.1482	1.78	0	0
0	0.1504	2.46	0	0
0	0.1934	11.15	0	0
0	0.23	10.58	0	0

0	0.2303	9.01	0	0
0	0.1434	6.21	0	0
0	0.2156	5.44	0	0
0	0.1263	0.90	0	0
0	0.1962	4.64	0	0
0	0.2005	7.90	0	0
0	0.2017	3.82	0	0
0	0.2374	6.37	0	0
0	0.3129	9.25	0	0
0	0.3471	14.24	0	0
0	0.1094	0.83	0	0
0	0.135	3.73	0	0
0	0.1824	7.68	0	0
0	0.1848	7.87	0	0
0	0.1888	6.94	0	0
0	0.2008	7.19	0	0
0	0.2011	9.73	0	0
0	0.2131	5.20	0	0
0	0.2165	4.92	0	0
0	0.2211	4.93	0	0
0	0.2954	11.47	0	0
0	0.3295	10.13	0	0
0	0.1071	0.87	0	0
0	0.1797	5.90	0	0
0	0.1049	0.85	0	0
0	0.1633	3.85	0	0
0	0.1641	3.87	0	0
0	0.1689	5.61	0	0
0	0.2566	6.58	0	0
0	0.2625	6.61	0	0
0	0.1143	0.88	0	0
0	0.3041	12.03	0	0
0	0.1569	5.68	0	0
0	0.1592	5.40	0	0
0	0.246	3.93	0	0

0	0.1051	0.86	0	0
0	0.157	6.96	0	0
0	0.1602	6.55	0	0
0	0.1686	5.01	0	0
0	0.1691	4.81	0	0
0	0.1728	5.92	0	0
0	0.1915	9.91	0	0
0	0.2651	10.44	0	0
0	0.2218	6.95	0	0
0	0.1135	0.86	0	0
0	0.1417	1.25	0	0
0	0.1508	1.49	0	0
0	0.1628	1.60	0	0
0	0.2972	9.73	0	0
0	0.1444	5.70	0	0
0	0.3059	12.81	0	0
0	0.1204	0.88	0	0
0	0.1255	0.88	0	0
0	0.1986	5.26	0	0
0	0.2376	7.78	0	0
0	0.2502	12.88	0	0
0	0.2515	12.84	0	0
0	0.2757	7.85	0	0
0	0.3485	14.32	0	0
0	0.1588	6.73	0	0
0	0.1115	0.85	0	0
0	0.14	0.97	0	0
0	0.1871	7.02	0	0
0	0.203	7.06	0	0
0	0.2187	6.59	0	0
0	0.2197	7.89	0	0
0	0.2895	8.16	0	0
0	0.3261	9.96	0	0
0	0.3283	10.61	0	0
0	0.3408	7.02	0	0
0	0.3628	14.59	0	0
0	0.3642	14.63	0	0

0	0.4249	7.04	0	0
0	0.1382	5.25	0	0
0	0.1398	5.29	0	0
0	0.2149	4.42	0	0
0	0.1022	6.96	0	0
0	0.1036	4.13	0	0
0	0.1318	4.03	0	0
0	0.1864	7.02	0	0
0	0.222	6.73	0	0
0	0.3035	7.71	0	0
0	0.3066	13.49	0	0
0	0.3076	8.55	0	0
0	0.3356	10.58	0	0
0	0.3421	7.01	0	0
0	0.3015	5.31	0	0
0	0.3025	5.31	25.24	0
0	0.1284	5.33	0	0
0	0.1422	2.97	0	0
0	0.1583	5.31	0	0
0	0.2855	10.24	0	0
0	0.2868	7.98	0	0
0	0.2874	10.32	0	0
0	0.3174	8.44	0	0
0	0.1018	0.78	0	0
0	0.102	0.82	0	0
0	0.115	0.87	0	0
0	0.1721	5.87	0	0
0	0.173	5.30	0	0
0	0.1734	7.69	34.45	0
0	0.1738	7.69	0	0
0	0.1814	5.63	0	0
0	0.2424	6.11	0	0
0	0.2451	6.27	0	0
0	0.2461	6.11	0	0
0	0.3173	13.69	0	0
0	0.1668	2.95	0	0
0	0.1842	4.71	0	0

0	0.192	4.99	0	0
0	0.2035	5.37	0	0
0	0.2104	5.76	23.78	0
0	0.2672	10.92	0	0
0	0.1064	0.81	0	0
0	0.115	0.86	0	0
0	0.1869	5.29	0	0
0	0.1869	5.32	0	0
0	0.1871	6.66	0	0
0	0.3335	12.90	0	0
0	0.3339	12.87	0	0
0	0.3348	12.14	0	0
0	0.1876	5.84	0	0
0	0.188	5.77	0	0
0	0.2808	12.45	0	0
0	0.281	12.89	0	0
0	0.2816	12.87	96.07	0
0	0.34	12.77	0	0
0	0.3425	12.88	0	0
0	0.8931	1.40	0	0
0	0.1003	0.79	0	0
0	0.1269	0.91	0	0
0	0.1287	0.92	0	0
0	0.1497	1.22	78.46	0
0	0.162	5.86	0	0
0	0.1751	12.67	0	0
0	0.1764	10.43	0	0
0	0.3143	10.93	0	0
0	0.1577	5.86	0	0
0	0.1298	0.91	0	0
0	0.1349	0.91	0	0
0	0.1398	6.45	0	0
0	0.1712	10.56	0	0
0	0.1777	4.16	0	0
0	0.1844	0.97	0	0
0	0.293	8.68	0	0
0	0.3284	11.77	0	0
0	0.3621	14.50	0	0

0	0.1059	3.76	0	0
0	0.1067	4.13	0	0
0	0.107	3.35	0	0
0	0.1264	0.86	0	0
0	0.2412	8.71	0	0
0	0.2557	10.43	0	0
0	0.3073	8.34	0	0
0	0.3434	11.68	0	0
0	0.376	14.78	0	0
0	0.731	0.67	0	0
0	0.7484	11.55	0	0
0	0.156	5.83	0	0
0	0.1054	0.77	0	0
0	0.1232	0.84	0	0
0	0.1356	0.87	0	0
0	0.1411	0.95	0	0
0	0.1412	0.85	0	0
0	0.2818	7.75	0	0
0	0.32	8.75	0	0
0	0.3558	12.10	0	0
0	0.101	0.82	0	0
0	0.1155	0.83	0	0
0	0.1251	0.89	0	0
0	0.241	6.77	0	0
0	0.2563	6.75	0	0
0	0.2581	6.33	0	0
0	0.2971	6.78	0	0
0	0.2974	7.27	0	0
0	0.3046	8.16	0	0
0	0.3364	10.06	0	0
0	0.2903	7.63	0	0
0	0.315	9.30	0	0
0	0.1705	5.66	0	0
0	0.2068	5.28	0	0
0	0.2317	5.95	0	0
0	0.2335	5.98	0	0
0	0.2351	6.21	0	0
0	0.3488	10.98	0	0

0	0.2291	7.32	0	0
0	0.2608	8.27	0	0
0	0.263	3.95	0	0
0	0.2956	12.90	0	0
0	0.2956	13.45	0	0
0	0.2968	12.77	0	0
0	0.1486	6.57	0	0
0	0.1903	6.41	0	0
0	0.1116	3.55	0	0
0	0.1128	0.83	0	0
0	0.1238	0.87	0	0
0	0.1415	0.99	0	0
0	0.1738	6.25	0	0
0	0.1034	0.74	0	0
0	0.1239	0.87	0	0
0	0.1585	0.89	0	0
0	0.1911	4.57	0	0
0	0.1947	5.11	0	0
0	0.2298	6.34	0	0
0	0.2855	13.88	0	0
0	0.1848	7.64	0	0
0	0.2588	6.72	0	0
0	0.1058	0.71	0	0
0	0.1118	0.79	0	0
0	0.1156	5.80	0	0
0	0.2407	5.94	0	0
0	0.2469	7.35	0	0
0	0.2723	10.61	0	0
0	0.2829	13.90	0	0
0	0.3201	7.98	0	0
0	0.3591	11.86	0	0
0	0.3597	13.24	0	0
0	0.1542	7.92	0	0
0	0.1178	0.80	0	0
0	0.1319	5.36	0	0
0	0.1508	0.96	0	0
0	0.1717	4.90	0	0
0	0.2593	6.42	0	0
0	0.3002	7.90	0	0
0	0.3363	8.38	0	0
0	0.3386	9.00	0	0

0	0.3718	13.35	0	0
0	0.1954	6.29	0	0
0	0.2838	8.27	0	0
0	0.3099	7.57	97.2	0
0	0.1733	5.68	0	0
0	0.2026	6.48	0	0
0	0.203	6.46	0	0
0	0.2469	1.68	0	0
0	0.2955	13.42	0	0
0	0.296	13.45	0	0
0	0.1422	1.07	0	0
0	0.2035	8.45	0	0
0	0.2071	6.24	0	0
0	0.217	6.78	0	0
0	0.3116	13.87	0	0
0	0.3138	13.87	0	0
0	0.7253	13.89	0	0
0	0.8224	1.96	0	0
0	0.8252	1.40	0	0
0	0.3169	13.97	0	0
0	0.2217	12.73	0	0
0	0.2659	8.19	0	0
0	0.2729	12.07	0	0
0	0.2733	13.07	0	0
0	0.2743	12.42	0	0
0	0.2743	11.39	0	0
0	0.1372	0.91	0	0
0	0.1595	1.30	0	0
0	0.1805	5.88	0	0
0	0.21	5.79	0	0
0	0.2767	11.85	0	0
0	0.3224	9.29	0	0
0	0.1176	0.79	0	0
0	0.1305	0.85	0	0
0	0.1534	13.73	0	0
0	0.2639	6.20	0	0
0	0.2674	7.84	0	0
0	0.3053	8.15	0	0
0	0.337	9.86	0	0
0	0.3737	13.00	0	0
0	0.1703	8.34	61.35	0
0	0.1856	6.47	0	0
0	0.136	0.84	0	0
0	0.151	6.20	0	0

0	0.1623	1.36	0	0
0	0.3498	8.79	0	0
0	0.3502	10.44	0	0
0	0.3879	13.81	0	0
0	0.1297	6.68	0	0
0	0.1298	5.96	0	0
0	0.2277	6.69	0	0
0	0.3266	7.60	0	0
0	0.3345	9.71	0	0
0	0.2068	5.32	0	0
0	0.2216	5.44	0	0
0	0.3231	13.49	0	0
0	0.3268	8.62	0	0
0	0.1309	2.91	0	0
0	0.1656	6.08	0	0
0	0.1668	6.07	0	0
0	0.2252	5.80	0	0
0	0.2353	6.68	0	0
0	0.2895	9.10	0	0
0	0.2936	10.69	0	0
0	0.2949	10.12	0	0
0	0.3019	11.52	0	0
0	0.324	13.96	0	0
0	0.3271	13.89	0	0
0	0.11	0.86	0	0
0	0.2856	7.41	0	0
0	0.1007	0.76	0	0
0	0.1184	0.86	0	0
0	0.1305	0.87	0	0
0	0.3058	9.63	0	0
0	0.3071	9.63	0	0
0	0.309	12.73	0	0
0	0.1595	5.60	0	0
0	0.1699	4.88	0	0
0	0.1049	0.72	0	0
0	0.1147	0.84	0	0
0	0.1258	0.85	0	0
0	0.154	6.61	0	0
0	0.1768	5.46	0	0
0	0.1946	5.78	0	0

0	0.1961	5.79	0	0
0	0.2207	6.42	0	0
0	0.2332	8.61	0	0
0	0.2333	8.33	97.22	0
0	0.3378	10.85	0	0
0	0.3721	13.74	0	0
0	0.1051	0.70	0	0
0	0.1739	5.40	0	0
0	0.1794	10.55	0	0
0	0.2626	9.06	0	0
0	0.2859	7.45	85.61	0
0	0.3464	9.22	0	0
0	0.3532	10.22	0	0
0	0.3901	13.73	0	0
0	0.3905	13.73	0	0
0	0.3908	13.86	0	0
0	0.4682	13.78	0	0
0	0.1041	0.70	0	0
0	0.1481	0.90	0	0
0	0.1488	4.82	0	0
0	0.19	6.63	0	0
0	0.3325	9.15	0	0
0	0.3664	10.81	0	0
0	0.3913	13.93	0	0
0	0.2294	6.07	0	0
0	0.3423	8.11	0	0
0	0.3492	9.91	0	0
0	0.3808	13.19	0	0
0	0.3022	8.10	0	0
0	0.3613	11.90	0	0
0	0.8783	7.58	0	0
0	0.1503	0.96	0	0
0	0.1796	6.44	0	0
0	0.18	6.44	0	0
0	0.1924	7.46	0	0
0	0.2691	7.59	0	0
0	0.2731	7.67	0	0
0	0.3065	9.16	0	0

0	0.3416	14.48	0	0
0	0.2958	7.70	0	0
0	0.15	0.93	0	0
0	0.2234	8.76	0	0
0	0.3219	9.69	0	0
0	0.3386	11.34	0	0
0	0.3393	11.38	0	0
0	0.2192	7.10	0	0
0	0.2255	4.74	0	0
0	0.28	10.92	0	0
0	0.2816	10.53	0	0
0	0.1039	0.72	0	0
0	0.1326	0.85	0	0
0	0.1597	13.97	0	0
0	0.161	13.27	0	0
0	0.1613	13.57	0	0
0	0.2046	5.77	0	0
0	0.2132	5.79	0	0
0	0.2339	6.65	0	0
0	0.3128	9.98	0	0
0	0.317	8.58	0	0
0	0.3871	13.85	0	0
0	0.3883	14.04	0	0
0	0.1105	0.74	0	0
0	0.1601	5.03	0	0
0	0.2891	7.07	0	0
0	0.4008	13.93	0	0
0	0.1811	6.39	0	0
0	0.3556	7.90	0	0
0	0.3816	9.95	0	0
0	0.384	11.34	0	0
0	0.4071	14.16	0	0
0	0.4151	14.16	0	0
0	0.1677	10.53	0	0
0	0.3305	10.02	0	0
0	0.3591	8.41	0	0
0	0.2501	7.26	0	0
0	0.2529	14.38	0	0
0	0.2783	7.24	0	0
0	0.1947	6.44	0	0
0	0.2421	14.38	0	0

0	0.2656	6.45	0	0
0	0.1896	5.52	0	0
0	0.1434	6.66	0	0
0	0.173	6.88	0	0
0	0.176	6.92	0	0
0	0.2829	6.57	0	0
0	0.34	13.76	0	0
0	0.3552	12.22	0	0
0	0.1812	7.45	0	0
0	0.1824	7.46	0	0
0	0.1998	5.74	0	0
0	0.1075	0.74	0	0
0	0.1145	0.76	0	0
0	0.1377	0.87	0	0
0	0.1491	5.10	0	0
0	0.1531	0.89	0	0
0	0.1591	6.66	0	0
0	0.1832	7.29	0	0
0	0.1855	7.23	0	0
0	0.2082	6.73	0	0
0	0.3326	8.86	0	0
0	0.3343	11.28	0	0
0	0.3658	11.90	0	0
0	0.2887	6.75	0	0
0	0.1508	0.86	0	0
0	0.225	6.65	0	0
0	0.2471	1.63	0	0
0	0.3035	7.31	0	0
0	0.3838	13.05	0	0
0	0.4174	14.29	0	0
0	0.4176	14.34	0	0
0	0.1028	0.70	0	0
0	0.3566	8.73	0	0
0	0.3597	8.73	0	0
0	0.3951	13.26	0	0
0	0.4	13.66	0	0
0	0.401	10.66	0	0
0	0.4331	14.28	0	0
0	0.3343	7.69	0	0
0	0.3479	7.69	0	0

0	0.1595	5.65	0	0
0	0.2554	6.95	0	0
0	0.2575	10.48	0	0
0	0.269	7.04	0	0
0	0.3382	9.03	0	0
0	0.2365	5.91	0	0
0	0.2094	7.06	0	0
0	0.2113	7.05	0	0
0	0.2331	8.52	0	0
0	0.2361	8.69	0	0
0	0.2719	7.04	0	0
0	0.4757	7.29	0	0
0	0.2897	7.27	0	0
0	0.2912	7.24	0	0
0	0.5072	8.66	0	0
0	0.1227	0.81	0	0
0	0.1949	6.68	0	0
0	0.3669	13.13	0	0
0	0.2149	6.10	0	0
0	0.1721	6.15	0	0
0	0.1726	6.33	0	0
0	0.2395	7.11	0	0
0	0.3508	11.83	0	0
0	0.3819	13.93	0	0
0	0.3821	13.63	0	0
0	0.4203	14.44	0	0
0	0.1958	6.38	0	0
0	0.1022	0.73	0	0
0	0.146	4.58	0	0
0	0.3891	11.72	0	0
0	0.3975	13.38	0	0
0	0.4354	14.36	97.44	0
0	0.4478	7.00	0	0
0	0.5024	7.02	0	0
0	0.1426	0.87	0	0
0	0.3736	8.97	0	0
0	0.401	13.45	0	0
0	0.4079	13.83	0	0
0	0.4428	14.47	0	0
0	0.2562	7.10	0	0

0	0.3923	9.34	0	0
0	0.4078	13.84	0	0
0	0.2263	7.06	0	0
0	0.2282	7.06	0	0
0	0.287	11.56	79.44	0
0	0.2881	10.94	0	0
0	0.2886	12.73	0	0
0	0.2888	11.86	0	0
0	0.2955	7.23	0	0
0	0.3004	7.70	0	0
0	0.3298	8.73	0	0
0	0.3323	8.10	40.39	0
0	0.2671	8.77	0	0
0	0.3125	6.52	0	0
0	0.3223	6.53	0	0
0	0.2305	6.62	0	0
0	0.1243	0.83	0	0
0	0.353	13.81	0	0
0	0.3628	9.86	0	0
0	0.3629	13.07	0	0
0	0.3635	9.86	0	0
0	0.21	8.50	0	0
0	0.2593	13.43	0	0
0	0.2294	14.39	0	0
0	0.4487	14.43	87.46	0
0	0.7256	14.44	0	0
0	0.1068	0.74	0	0
0	0.1672	13.94	0	0
0	0.4568	14.62	0	0
0	0.1681	13.95	0	0
0	0.3768	13.24	0	0
0	0.4035	9.96	0	0
0	0.1582	5.58	0	0
0	0.1891	5.60	0	0
0	0.1609	5.58	0	0
0	0.2782	9.81	0	0
0	0.2816	9.85	0	0
0	0.2867	10.33	0	0

0	0.2893	8.65	0	0
0	0.2456	6.73	0	0
0	0.5648	9.62	0	0
0	0.136	0.87	0	0
0	0.1546	0.92	0	0
0	0.288	7.48	0	0
0	0.4125	13.94	0	0
0	0.4132	13.97	0	0
0	0.1154	0.79	0	0
0	0.1222	0.81	0	0
0	0.1452	0.87	0	0
0	0.3947	13.60	0	0
0	0.4273	14.01	0	0
0	0.7092	13.98	0	0
0	0.286	2.56	0	0
0	0.3475	7.94	0	0
0	0.4054	10.76	0	0
0	0.4234	13.89	84.98	0
0	0.4379	13.23	0	0
0	0.4426	14.17	0	0
0	0.4459	14.19	0	0
0	0.4824	14.78	0	0
0	0.7233	13.08	0	0
0	0.1767	6.59	0	0
0	0.427	14.01	0	0
0	0.4289	13.99	0	0
0	0.4326	14.08	0	0
0	0.1195	0.82	0	0
0	0.1801	7.53	0	0
0	0.1569	5.03	0	0
0	0.131	5.17	0	0
0	0.25	14.18	0	0
0	0.4518	0.72	0	0
0	0.3773	9.97	0	0
0	0.2351	7.10	0	0
0	0.4013	0.72	0	0
0	0.3296	7.44	0	0
0	0.4337	13.76	0	0
0	0.2382	5.31	0	0
0	0.3001	3.15	0	0
0	0.3015	3.15	0	0
0	0.4204	13.73	0	0
0	0.4214	13.24	0	0

0	0.4511	14.24	0	0
0	0.4587	14.27	0	0
0	0.3215	7.19	0	0
0	0.1356	10.58	0	0
0	0.4501	14.41	0	0
0	0.2906	6.32	0	0
0	0.3308	3.95	0	0
0	0.3316	3.16	0	0
0	0.2637	7.45	0	0
0	0.3946	10.50	48.9	0
0	0.2829	6.78	0	0
0	0.238	6.61	0	0
0	0.2532	14.19	0	0
0	0.4456	14.30	0	0
0	0.1422	0.87	0	0
0	0.1716	0.98	0	0
0	0.4511	13.93	0	0
0	0.4577	14.39	0	0
0	0.2168	4.48	0	0
0	0.2468	14.24	0	0
0	0.4666	13.90	0	0
0	0.4684	14.34	0	0
0	0.4686	13.91	0	0
0	0.2293	4.49	0	0
0	0.2359	4.34	48.88	0
0	0.1216	0.83	0	0
0	0.2474	14.22	0	0
0	0.424	14.04	0	0
0	0.4685	14.35	0	0
0	0.354	3.79	0	0
0	0.2183	7.32	0	0
0	0.3147	5.81	0	0
0	0.2874	4.52	0	0
0	0.1561	0.89	0	0
0	0.4537	10.56	0	0
0	0.4541	14.37	0	0
0	0.1459	0.88	0	0
0	0.442	14.03	0	0
0	0.475	14.52	0	0
0	0.7677	14.57	0	0
0	0.447	13.30	78.72	0
0	0.4734	13.95	0	0
0	0.4899	14.63	0	0
0	0.7839	14.68	0	0

0	0.3143	6.53	78.5	0
0	0.2007	6.34	0	0
0	0.3078	3.34	0	0
0	0.4778	14.45	0	0
0	0.2803	11.34	0	0
0	0.1208	0.82	0	0
0	0.1638	0.91	0	0
0	0.4827	14.33	0	0
0	0.4918	14.61	0	0
0	0.1686	0.92	0	0
0	0.1973	5.34	0	0
0	0.342	5.70	0	0
0	0.4687	14.27	0	0
0	0.5041	14.70	0	0
0	0.7669	14.31	0	0
0	0.3277	3.92	0	0
0	0.4835	13.89	0	0
0	0.3361	7.33	0	0
0	0.2679	11.47	0	0
0	0.4292	13.20	0	0
0	0.1335	0.87	0	0
0	0.4392	13.98	0	0
0	0.5007	14.43	0	0
0	0.2742	4.72	0	0
0	0.5137	14.31	0	0
0	0.5172	14.30	0	0
0	0.3418	4.10	0	0
0	0.3427	4.10	0	0
0	0.3428	4.19	0	0
0	0.4711	14.58	0	0
0	0.4856	13.93	0	0
0	0.4992	13.94	0	0
0	0.2341	13.11	0	0
0	0.461	13.81	66.35	0
0	0.4723	14.65	0	0
0	0.1489	0.88	0	0
0	0.4535	14.14	0	0
0	0.2936	7.05	0	0
0	0.2652	9.60	0	0
0	0.4821	13.96	0	0

0	0.1255	0.81	0	0
0	0.2696	14.65	0	0
0	0.4971	14.10	0	0
0	0.5243	14.43	0	0
0	0.5255	14.42	0	0
0	0.4748	13.21	0	0
0	0.4969	13.97	0	0
0	0.5254	14.41	0	0
0	0.2496	14.17	0	0
0	0.2781	6.74	0	0
0	0.4643	13.87	0	0
0	0.1194	5.89	0	0
0	0.4876	14.00	0	0
0	0.3809	5.86	0	0
0	0.5036	14.09	0	0
0	0.5196	14.73	0	0
0	0.1606	0.89	0	0
0	0.4975	14.07	0	0
0	0.5318	14.21	0	0
0	0.3528	4.37	0	0
0	0.3179	14.51	0	0
0	0.4783	13.96	0	0
0	0.5149	14.18	0	0
0	0.5594	14.74	0	0
0	0.2806	5.52	0	0
0	0.3397	5.87	0	0
0	0.411	10.38	0	0
0	0.5042	13.96	0	0
0	0.5474	14.34	0	0
0	0.5683	14.64	0	0
0	0.8502	14.22	0	0
0	0.3696	4.61	0	0
0	0.4823	8.94	0	0
0	0.463	14.31	0	0
0	0.4644	14.31	0	0
0	0.1659	0.87	0	0
0	0.1619	0.88	0	0
0	0.5321	14.39	0	0
0	0.5748	14.84	0	0
0	0.4288	10.91	0	0
0	0.5133	13.97	0	0
0	0.5476	14.41	0	0

0	0.1677	0.91	0	0
0	0.3246	5.81	0	0
0	0.3858	4.80	0	0
0	0.5398	14.64	0	0
0	0.1777	0.88	36.47	0
0	0.414	4.14	0	0
0	0.2928	7.26	0	0
0	0.4102	9.05	0	0
0	0.523	13.99	0	0
0	0.553	14.45	0	0
0	0.5376	10.91	0	0
0	0.5738	14.62	0	0
0	0.2149	6.49	0	0
0	0.3223	6.39	0	0
0	0.4807	13.94	0	0
0	0.5274	14.43	0	0
0	0.4284	12.68	0	0
0	0.5302	14.16	0	0
0	0.5476	14.19	0	0
0	0.5899	14.72	0	0
0	0.5934	14.70	0	0
0	0.3051	9.90	0	0
0	0.3053	9.18	0	0
0	0.306	10.04	0	0
0	0.307	11.14	0	0
0	0.3076	10.49	0	0
0	0.4218	10.32	0	0
0	0.5249	10.82	0	0
0	0.5425	14.44	81.49	0
0	0.6282	10.19	0	0
0	0.4306	13.11	0	0
0	0.4519	13.60	0	0
0	0.48	13.86	0	0
0	0.4918	14.01	0	0
0	0.4818	13.98	0	0
0	0.4776	14.83	0	0
0	0.1959	0.88	0	0
0	0.2255	1.14	0	0
0	0.6293	14.18	0	0

0	0.3424	6.50	0	0
0	0.5562	14.32	0	0
0	0.5595	14.73	0	0
0	0.2745	13.28	0	0
0	0.3297	7.76	0	0
0	0.3744	6.14	0	0
0	0.2744	13.35	0	0
0	0.3582	6.65	0	0
0	0.549	14.12	0	0
0	0.3035	13.40	0	0
0	0.4159	13.30	0	0
0	0.4232	13.31	0	0
0	0.4993	13.34	0	0
0	0.5256	13.35	0	0
0	0.6212	13.38	0	0
0	0.8234	13.39	0	0
0	0.5368	14.36	0	0
0	0.5682	14.85	0	0
0	0.3002	4.76	0	0
0	0.2671	3.72	0	0
0	0.2928	3.65	0	0
0	0.1586	0.84	0	0
0	0.5202	14.00	0	0
0	0.221	0.96	0	0
0	0.6574	14.67	0	0
0	0.4812	6.53	0	0
0	0.5347	13.60	0	0
0	0.5531	14.05	0	0
0	0.5932	14.53	0	0
0	0.3213	13.37	0	0
0	0.2399	6.75	0	0
0	0.2827	14.04	0	0
0	0.2959	13.24	0	0
0	0.5394	14.39	0	0
0	0.3436	7.53	0	0
0	0.1887	0.92	0	0
0	0.2095	0.93	0	0
0	0.5638	14.00	0	0
0	0.6047	14.67	0	0
0	0.1874	0.82	0	0
0	0.5385	13.50	0	0

0	0.3173	13.37	0	0
0	0.5782	7.49	0	0
0	0.1706	0.85	0	0
0	0.2754	6.75	0	0
0	0.492	14.68	0	0
0	0.65	14.60	0	0
0	0.3009	9.39	0	0
0	0.3678	7.30	0	0
0	0.6352	14.45	0	0
0	0.1907	0.86	0	0
0	0.1642	7.01	0	0
0	0.2864	9.37	0	0
0	0.2885	10.19	0	0
0	0.1482	7.03	0	0
0	0.217	5.30	0	0
0	0.5252	14.63	0	0
0	0.7514	5.18	0	0
0	0.508	14.78	0	0
0	0.3211	7.52	0	0
0	0.5655	14.33	85.66	0
0	0.5057	8.64	0	0
0	0.5423	14.72	0	0
0	0.5982	14.13	0	0
0	0.2903	7.28	0	0
0	0.6006	14.06	0	0
0	0.6122	14.30	0	0
0	0.6476	14.39	0	0
0	0.2344	3.99	0	0
0	0.2352	4.46	0	0
0	0.3183	4.56	0	0
0	0.3122	4.67	0	0
0	0.6105	14.05	0	0
0	0.7733	13.88	0	0
0	0.612	14.02	0	0
0	0.6045	8.29	0	0
0	0.3283	7.71	0	0
0	0.6211	14.00	0	0
0	0.6026	14.04	0	0
0	0.592	10.01	0	0
0	0.372	12.79	0	0
0	0.6181	14.06	0	0
0	0.5506	7.81	0	0

0	0.5714	13.39	0	0
0	0.8653	7.02	0	0
0	0.5643	7.81	0	0
0	0.8627	7.02	0	0
0	0.8947	7.03	0	0
0	0.558	7.81	0	0
0	0.2466	7.02	0	0
0	0.1186	7.03	0	0
0	0.5623	7.81	0	0
0	0.5809	8.25	0	0
0	0.5614	7.83	0	0
0	0.5113	6.41	0	0
0	0.8489	7.01	0	0
0	0.8441	7.02	0	0
0	0.7693	11.51	0	0
0	0.5651	7.85	0	0
0	0.7656	7.54	0	0
0	0.5757	7.86	0	0
0	0.5818	7.74	0	0
0	0.5635	11.34	0	0
0	0.5757	7.83	0	0
0	0.3849	0.65	0	0
0	0.5863	7.75	0	0
0	0.5757	7.81	0	0
0	0.6073	8.21	0	0
0	0.5819	7.85	0	0
0	0.6067	8.26	0	0
0	0.5922	8.20	0	0
0	0.6036	7.86	0	0
0	0.5939	7.81	0	0
0	0.617	8.25	0	0
0	0.6039	7.83	0	0
0	0.6049	7.85	0	0
0	0.7275	13.02	0	0
0	0.61	7.86	0	0
0	0.6274	8.25	0	0
0	0.6086	7.86	0	0
0	0.6466	8.23	0	0
0	0.6132	7.78	0	0
0	0.6267	7.83	0	0
0	0.7332	13.64	0	0
0	0.6182	7.81	0	0
0	0.6268	7.85	0	0
0	0.7638	13.43	0	0

0	0.6288	7.86	0	0
0	0.541	6.64	0	0
0	0.631	7.83	0	0
0	0.6694	8.35	0	0
0	0.4937	6.59	0	0
0	0.6356	7.80	0	0
0	0.5631	6.96	0	0
0	0.4866	6.15	0	0
0	0.7769	13.84	0	0
0	0.807	13.64	0	0
0	0.2465	11.34	0	0
0	0.8129	13.98	0	0
0	0.8496	13.82	0	0
0	0.8915	13.97	0	0
0	0.8511	11.34	0	0
0	0.8644	6.57	0	0

Read for Defect between lower and upper

Upper MD (<)	0.1
Lower MD (>)	0.9
Minimum Match Score	30

Max RT

Min Abundance

Noise ratio

General Classification	NTA Screening R		
	match_flag	Passes PFASlike_flag	Passes rt_flag
Matched PFAS	none	Yes	FALSE
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	HIGH Match	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes

Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	FALSE
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	low match	Yes	FALSE
Matched PFAS	HIGH Match	Yes	FALSE
Matched PFAS	HIGH Match	Yes	FALSE
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	FALSE
Matched PFAS	HIGH Match	Yes	FALSE
Matched PFAS	none	FALSE	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	HIGH Match	Yes	FALSE
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	low match	Yes	FALSE
Matched PFAS	HIGH Match	Yes	FALSE
Matched PFAS	none	Yes	FALSE

Matched PFAS	none	Yes	Yes
Matched PFAS	low match	Yes	FALSE
Matched PFAS	none	Yes	FALSE
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	HIGH Match	Yes	FALSE
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	low match	Yes	Yes
Matched PFAS	none	FALSE	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
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Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	FALSE	Yes
Matched PFAS	none	Yes	Yes
Matched PFAS	none	Yes	Yes

Matched PFAS Non-detect	none	Yes	Yes
Matched PFAS Non-detect	none	Yes	Yes
Matched PFAS Non-detect	none	Yes	Yes
Matched PFAS Non-detect	none	Yes	Yes
Matched PFAS Non-detect	none	Yes	Yes
Matched PFAS Non-detect	none	Yes	Yes
Matched PFAS Non-detect	none	Yes	Yes
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Suspect	none	Yes	Yes
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Suspect	none	Yes	FALSE
Suspect	HIGH Match	Yes	FALSE
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Suspect	low match	Yes	FALSE
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Suspect	none	Yes	FALSE
Suspect	low match	Yes	FALSE
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Suspect	HIGH Match	Yes	FALSE
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Suspect	HIGH Match	Yes	FALSE
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Suspect	low match	Yes	Yes

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Unknown	none	FALSE	Yes
Unknown	none	FALSE	Yes
Unknown	none	FALSE	Yes
Unknown	none	FALSE	Yes
Unknown	none	FALSE	Yes
Unknown	none	FALSE	Yes
Unknown	none	FALSE	Yes

25
50,000
3

set noise ratio here

Count when all Matched samples don't meet noise
Count when all Suspect samples don't meet noise

esults		Sample Abundance Characteristics		Noise Ratio x ST DEV
Passes lowabun_flag?	At least 1 sample>noise	Count # Samples > ST DEV	Count Samples >50,000	Minimum Noise Level
Yes	Yes	13	5	41,184
Yes	Yes	18	7	60,415
Yes	Yes	22	10	81,518
Yes	Yes	19	10	96,805
Yes	Yes	31	10	60,776
Yes	Yes	17	15	102,777
Yes	Yes	18	15	107,937
Yes	Yes	8	1	29,837
Yes	Yes	67	1	1
Yes	Yes	42	64	2,561,631
Yes	Yes	26	4	28,972
Yes	Yes	67	1	1
Yes	Yes	67	1	1
Yes	Yes	40	13	40,364

Yes	Yes	67	1	1
Yes	Yes	21	1	1,902
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
FALSE	Yes	14	0	14,217
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	22	20	105,465
Yes	Yes	67	5	1
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	67	1	1
FALSE	Yes	27	0	5,920
FALSE	Yes	67	0	1
Yes	Yes	11	10	92,290
Yes	Yes	43	2	22,516
Yes	Yes	67	2	1
FALSE	Yes	14	0	4,969
FALSE	Yes	20	0	13,495
Yes	Yes	67	2	1
FALSE	Yes	26	0	6,188
FALSE	Yes	67	0	1
Yes	Yes	45	56	462,991
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
FALSE	Yes	27	0	4,095

Yes	Yes	16	11	111,057
Yes	Yes	2	2	24,957
FALSE	Yes	31	0	4,539
Yes	Yes	9	1	1,011
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	19	10	46,898
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	2	1	50,907
Yes	Yes	2	1	68,596
Yes	Yes	9	2	5,380
Yes	Yes	2	43	358,515
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	1	0	12,548
FALSE	Yes	67	0	1
Yes	Yes	48	48	109,762
Yes	Yes	18	10	126,156
Yes	Yes	2	2	107,605
Yes	Yes	67	2	1

FALSE	FALSE	0	0	25,474
FALSE	FALSE	2	0	51,951
Yes	FALSE	3	1	120,133
Yes	FALSE	1	50	1,136,592
Yes	FALSE	1	55	3,048,105
Yes	FALSE	2	48	586,356
FALSE	FALSE	3	0	48,392
FALSE	Yes	10	0	4,418
FALSE	Yes	29	0	15,007
FALSE	Yes	38	0	36,436
Yes	Yes	7	19	4,607,525
Yes	Yes	43	62	3,835,632
Yes	Yes	28	13	28,960
Yes	Yes	29	19	51,146
FALSE	FALSE	0	0	327,101
Yes	Yes	31	2	6,471
FALSE	FALSE	56	0	29,201
FALSE	Yes	56	0	12,736
FALSE	Yes	67	0	1
Yes	Yes	33	1	33,833
Yes	Yes	34	1	33,804
FALSE	FALSE	9	0	16,670
Yes	Yes	42	57	7,902,437
Yes	FALSE	2	18	5,491,705
Yes	Yes	48	58	5,660,774
Yes	Yes	28	20	92,522
Yes	Yes	67	5	1
Yes	Yes	38	39	227,057
Yes	Yes	43	49	274,463
Yes	Yes	2	1	20,861
Yes	Yes	41	47	253,414
FALSE	Yes	19	0	6,630

Yes	Yes	38	46	500,158
Yes	Yes	28	30	176,342
Yes	Yes	67	2	1
Yes	Yes	63	63	15,354,481
Yes	FALSE	18	18	205,755
Yes	Yes	40	34	123,003
FALSE	Yes	40	0	7,659
Yes	Yes	63	63	170,555
Yes	Yes	49	8	36,887
FALSE	FALSE	0	0	176,691
Yes	Yes	60	33	69,701
Yes	FALSE	0	1	273,917
FALSE	Yes	25	0	14,549
FALSE	Yes	67	0	1
FALSE	Yes	15	0	3,028
Yes	Yes	21	11	50,007
FALSE	Yes	3	0	1,357
Yes	Yes	55	19	63,276
FALSE	FALSE	0	0	10,635
Yes	Yes	58	48	75,398
Yes	Yes	67	1	1
Yes	Yes	33	17	24,601
Yes	Yes	43	17	28,525
Yes	Yes	44	6	28,012
Yes	Yes	43	5	5,415
Yes	Yes	67	1	1
Yes	FALSE	29	49	771,851
FALSE	Yes	31	0	6,806
Yes	Yes	67	1	1
Yes	Yes	67	1	1
Yes	Yes	48	1	5,735
FALSE	Yes	43	0	8,306
FALSE	Yes	16	0	11,561

Yes	Yes	23	1	22,208
Yes	Yes	34	17	41,228
FALSE	Yes	25	0	9,663
Yes	Yes	38	61	635,002
FALSE	Yes	20	0	4,185
Yes	Yes	26	2	7,350
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	20	0	3,738
Yes	Yes	64	60	95,892
FALSE	Yes	34	0	287
FALSE	Yes	67	0	1
Yes	Yes	34	1	18,601
FALSE	Yes	42	0	18,636
FALSE	Yes	35	0	11,837
Yes	Yes	22	7	30,264
FALSE	Yes	67	0	1
FALSE	Yes	41	0	7,724
Yes	Yes	42	49	313,622
Yes	Yes	45	3	16,158
Yes	Yes	38	1	6,359
Yes	Yes	56	6	34,929
FALSE	Yes	67	0	1
Yes	Yes	49	30	100,658
Yes	Yes	42	1	14,832
Yes	Yes	45	9	18,986
FALSE	Yes	2	0	1,302
FALSE	Yes	67	0	1
Yes	Yes	45	29	48,736
Yes	Yes	53	38	63,103
Yes	Yes	42	30	69,232

Yes	Yes	2	1	29,676
Yes	Yes	21	2	1,245
FALSE	Yes	17	0	1,079
FALSE	Yes	67	0	1
Yes	Yes	43	1	12,910
FALSE	Yes	67	0	1
Yes	Yes	39	10	58,956
Yes	Yes	42	11	41,419
Yes	Yes	22	1	15,691
Yes	Yes	47	1	10,949
FALSE	Yes	67	0	1
Yes	Yes	49	6	29,777
Yes	Yes	52	4	14,234
Yes	Yes	50	5	6,102
Yes	Yes	42	11	44,627
FALSE	Yes	16	0	2,241
FALSE	Yes	21	0	15,229
Yes	Yes	32	5	37,214
Yes	Yes	46	19	53,068
Yes	Yes	67	2	1
Yes	Yes	54	2	39,240
FALSE	Yes	20	0	9,393
FALSE	Yes	16	0	12,605
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	28	6	10,852
Yes	Yes	41	48	236,067
Yes	FALSE	32	47	269,505
Yes	Yes	38	1	10,254
Yes	Yes	31	28	124,646
Yes	Yes	18	13	86,187
FALSE	Yes	67	0	1

Yes	Yes	40	2	21,893
Yes	Yes	34	3	2,540
FALSE	Yes	67	0	1
Yes	Yes	41	1	3,302
Yes	Yes	45	1	3,654
FALSE	Yes	35	0	6,042
Yes	Yes	42	18	38,583
Yes	Yes	50	6	16,171
Yes	Yes	31	7	46,785
Yes	Yes	42	1	937
FALSE	Yes	19	0	908
Yes	Yes	67	1	1
Yes	Yes	11	6	96,526
Yes	FALSE	2	30	666,465
Yes	Yes	7	14	248,269
Yes	Yes	34	21	90,497
Yes	Yes	3	1	42,222
Yes	Yes	29	3	18,547
Yes	Yes	49	1	9,805
Yes	Yes	45	14	35,637
FALSE	Yes	67	0	1
Yes	Yes	51	1	16,196
FALSE	Yes	67	0	1
FALSE	Yes	2	0	606
FALSE	Yes	7	0	1,117
FALSE	Yes	59	0	16,434
Yes	Yes	49	2	12,111

Yes	Yes	46	1	6,077
FALSE	Yes	42	0	4,829
FALSE	Yes	27	0	1,844
FALSE	Yes	40	0	12,166
FALSE	Yes	30	0	2,018
Yes	Yes	67	1	1
FALSE	Yes	7	0	287
Yes	Yes	48	2	16,347
FALSE	Yes	22	0	283
FALSE	Yes	67	0	1
FALSE	Yes	43	0	2,919
Yes	Yes	34	2	27,560
Yes	Yes	46	1	18,120
FALSE	Yes	67	0	1
Yes	Yes	1	1	894
Yes	Yes	39	23	84,124
Yes	Yes	33	20	84,113
Yes	Yes	21	50	1,496,529
Yes	Yes	20	2	1,417
Yes	Yes	21	7	25,963
Yes	Yes	45	16	16,797
Yes	Yes	40	17	20,293
Yes	Yes	44	14	19,163
Yes	Yes	47	24	31,605
Yes	Yes	6	1	648
Yes	Yes	49	23	39,188
Yes	Yes	67	1	1
Yes	FALSE	7	7	141,570
Yes	FALSE	11	11	139,311

Yes	Yes	37	7	29,490
Yes	Yes	67	2	1
Yes	Yes	32	8	6,220
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	10	0	12,037
FALSE	Yes	27	0	2,286
FALSE	Yes	37	0	13,922
Yes	Yes	51	8	27,299
FALSE	Yes	30	0	2,287
FALSE	Yes	30	0	2,921
Yes	Yes	58	5	17,172
FALSE	Yes	20	0	2,641
Yes	Yes	38	16	72,060
Yes	Yes	50	2	11,403
Yes	Yes	42	1	4,332
Yes	Yes	45	4	15,156
Yes	Yes	14	2	22,780
Yes	Yes	19	4	18,130
Yes	Yes	17	1	4,983
Yes	Yes	67	5	1
FALSE	Yes	13	0	942
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	24	0	5,643
Yes	Yes	51	21	57,576
FALSE	Yes	52	0	11,012
FALSE	FALSE	1	0	5,239
FALSE	Yes	67	0	1
Yes	Yes	31	23	43,437
Yes	Yes	67	2	1
Yes	Yes	67	1	1

FALSE	Yes	42	0	1,919
FALSE	Yes	67	0	1
FALSE	Yes	16	0	162
Yes	Yes	41	1	12,817
Yes	Yes	42	1	10,428
Yes	Yes	42	1	12,266
FALSE	Yes	29	0	7,287
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	15	49	1,976,035
Yes	FALSE	1	12	2,012,974
Yes	Yes	16	50	2,001,842
Yes	Yes	33	1	5,730
Yes	Yes	67	1	1
Yes	Yes	30	2	27,072
FALSE	Yes	67	0	1
FALSE	Yes	9	0	1,249
Yes	Yes	38	1	22,421
FALSE	Yes	38	0	22,895
FALSE	Yes	14	0	1,168
Yes	Yes	59	1	14,457
Yes	Yes	67	1	1
Yes	Yes	52	14	46,345
Yes	Yes	54	16	47,382
Yes	Yes	27	2	30,801
Yes	Yes	42	16	38,852
Yes	Yes	28	9	53,016
Yes	Yes	37	8	5,542

Yes	Yes	4	2	1,562
Yes	Yes	9	20	253,308
Yes	Yes	27	1	7,034
Yes	Yes	25	16	22,332
Yes	Yes	5	1	395
Yes	Yes	17	1	1,126
FALSE	Yes	67	0	1
Yes	Yes	48	2	16,227
Yes	Yes	43	6	35,617
FALSE	FALSE	15	0	60,524
FALSE	Yes	18	0	1,251
FALSE	Yes	67	0	1
FALSE	Yes	9	0	188
Yes	Yes	49	1	11,734
Yes	Yes	49	1	14,488
FALSE	Yes	56	0	21,073
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	39	1	20,522
FALSE	Yes	67	0	1
Yes	Yes	47	1	8,835
Yes	Yes	47	3	19,152
FALSE	Yes	67	0	1
Yes	Yes	13	2	20,760
Yes	Yes	47	3	13,600
FALSE	Yes	38	0	11,472
FALSE	Yes	67	0	1
Yes	Yes	56	31	98,610
Yes	Yes	55	33	94,158
Yes	Yes	35	25	93,785
FALSE	Yes	11	0	11,928
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	30	0	12,570

Yes	Yes	29	1	10,934
Yes	Yes	47	1	12,645
Yes	Yes	42	1	13,278
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
Yes	Yes	27	1	13,428
Yes	Yes	40	9	24,933
Yes	Yes	27	14	13,170
Yes	Yes	15	6	12,229
Yes	Yes	38	8	25,807
Yes	Yes	46	9	27,096
Yes	Yes	54	8	40,965
Yes	Yes	30	2	2,783
Yes	Yes	59	10	36,220
FALSE	Yes	14	0	40,215
FALSE	Yes	21	0	20,341
FALSE	Yes	38	0	9,531
FALSE	Yes	10	0	14,099
Yes	Yes	35	27	73,150
Yes	Yes	49	11	24,840
Yes	Yes	49	9	24,970
FALSE	Yes	3	0	1,762
Yes	Yes	52	1	18,286
Yes	Yes	53	1	16,873
Yes	Yes	44	1	10,575
Yes	Yes	43	43	137,242
Yes	Yes	67	1	1

Yes	Yes	27	2	3,728
Yes	Yes	37	6	21,504
Yes	Yes	46	1	29,645
Yes	Yes	22	3	25,583
Yes	Yes	30	2	47,704
Yes	Yes	53	12	47,049
Yes	Yes	39	11	46,143
Yes	Yes	37	9	43,157
Yes	Yes	47	9	22,408
FALSE	Yes	67	0	1
FALSE	Yes	7	0	2,313
Yes	Yes	1	1	99,728
Yes	Yes	67	1	1
Yes	Yes	53	1	8,728
FALSE	Yes	67	0	1
Yes	Yes	1	1	64,841
FALSE	Yes	47	0	12,730
Yes	Yes	48	1	15,053
FALSE	Yes	26	0	20,969
Yes	Yes	43	1	36,318
Yes	Yes	36	5	40,679
FALSE	Yes	45	0	19,050
Yes	Yes	43	1	30,683
Yes	Yes	67	1	1
Yes	Yes	67	1	1
Yes	Yes	38	2	19,490
FALSE	Yes	44	0	8,121
FALSE	Yes	22	0	7,325

Yes	Yes	46	2	22,480
FALSE	Yes	36	0	11,235
Yes	Yes	67	1	1
Yes	Yes	43	7	19,184
Yes	Yes	46	11	40,661
FALSE	Yes	67	0	1
Yes	Yes	42	7	35,825
FALSE	Yes	67	0	1
FALSE	Yes	31	0	30,988
FALSE	Yes	43	0	405
FALSE	Yes	41	0	12,644
Yes	Yes	44	5	19,354
Yes	Yes	45	7	18,927
Yes	Yes	67	1	1
FALSE	Yes	26	0	6,496
Yes	Yes	46	7	22,680
Yes	FALSE	1	1	170,726
Yes	Yes	2	1	13,495
Yes	FALSE	1	1	170,534
Yes	Yes	43	2	29,749
FALSE	Yes	27	0	42,962
FALSE	Yes	30	0	3,301
FALSE	Yes	29	0	16,594
Yes	Yes	34	11	44,263
Yes	Yes	9	1	28,680
FALSE	Yes	41	0	8,192
Yes	Yes	37	1	36,594
Yes	Yes	41	1	1,882

FALSE	Yes	48	0	5,894
Yes	Yes	47	4	20,884
Yes	Yes	46	2	19,383
FALSE	Yes	18	0	2,489
FALSE	Yes	15	0	1,965
FALSE	Yes	67	0	1
FALSE	Yes	9	0	2,310
Yes	Yes	67	1	1
Yes	Yes	2	1	680
Yes	Yes	44	13	42,337
Yes	Yes	51	8	27,379
Yes	FALSE	28	56	562,045
Yes	Yes	28	57	559,592
Yes	FALSE	27	53	561,190
Yes	Yes	51	3	14,232
FALSE	Yes	45	0	5,512
Yes	Yes	6	4	56,264
Yes	Yes	39	48	293,106
Yes	Yes	7	3	70,777
Yes	Yes	43	58	984,567
Yes	Yes	44	59	984,103
Yes	Yes	44	55	982,553
Yes	Yes	3	2	73,680
Yes	Yes	45	1	9,606
Yes	Yes	43	44	379,944
Yes	Yes	44	45	380,959
Yes	Yes	67	2	1
FALSE	Yes	42	0	13,564
Yes	Yes	34	1	17,837
Yes	Yes	43	2	29,965

FALSE	FALSE	9	0	25,947
Yes	Yes	48	1	16,755
Yes	Yes	35	18	86,928
Yes	Yes	39	2	20,057
FALSE	Yes	22	0	3,695
Yes	Yes	26	12	69,177
Yes	Yes	22	57	889,526
Yes	Yes	36	1	15,266
Yes	Yes	49	1	13,164
Yes	Yes	22	3	54,470
Yes	FALSE	22	4	86,046
Yes	FALSE	22	8	89,958
Yes	Yes	34	3	11,349
FALSE	Yes	24	0	17,400
FALSE	Yes	29	0	12,957
Yes	Yes	22	40	321,296
Yes	Yes	23	41	319,210
Yes	Yes	23	41	320,866
Yes	Yes	44	1	8,713
Yes	Yes	67	1	1
Yes	Yes	42	11	39,563
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	50	3	15,718
FALSE	Yes	67	0	1
FALSE	Yes	4	0	5,673
FALSE	Yes	38	0	9,532
Yes	Yes	26	1	1,288
FALSE	Yes	67	0	1

FALSE	Yes	43	0	11,240
Yes	Yes	21	1	6,680
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	45	1	8,523
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	33	0	5,523
Yes	Yes	51	2	17,439
FALSE	Yes	20	0	7,728
Yes	Yes	43	1	29,383
Yes	Yes	2	2	449,143
Yes	Yes	44	3	21,189
Yes	Yes	46	4	23,310
Yes	Yes	44	1	4,375
Yes	Yes	67	5	1
Yes	Yes	30	9	67,013
Yes	Yes	19	3	13,081
Yes	Yes	43	1	2,578
Yes	Yes	2	2	436,567
Yes	Yes	34	2	19,040
Yes	Yes	35	1	9,865
Yes	Yes	44	6	31,463
Yes	Yes	42	7	21,957
Yes	Yes	2	2	140,589
FALSE	FALSE	67	0	1
Yes	Yes	35	1	14,944
Yes	Yes	42	1	12,320
FALSE	Yes	38	0	5,887
FALSE	Yes	67	0	1
Yes	Yes	67	1	1

Yes	Yes	41	11	52,938
Yes	Yes	42	1	45,712
FALSE	Yes	67	0	1
Yes	Yes	58	7	65,415
Yes	Yes	33	1	8,575
FALSE	Yes	38	0	3,970
Yes	Yes	67	1	1
Yes	Yes	42	3	13,339
FALSE	Yes	62	0	44,838
FALSE	Yes	30	0	2,509
Yes	Yes	50	4	8,975
Yes	Yes	37	1	4,394
FALSE	Yes	31	0	36,451
FALSE	Yes	67	0	1
FALSE	Yes	34	0	7,719
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	40	1	9,183
Yes	Yes	46	3	13,123
FALSE	Yes	1	0	13,021
Yes	Yes	41	1	9,236
Yes	Yes	55	5	22,956
FALSE	Yes	47	0	8,915
FALSE	Yes	40	0	5,783
Yes	Yes	40	1	8,615
Yes	Yes	50	3	4,145
Yes	Yes	5	2	2,208

FALSE	Yes	67	0	1
FALSE	Yes	36	0	8,411
FALSE	Yes	37	0	5,143
Yes	Yes	41	2	15,904
Yes	Yes	23	8	1,144
Yes	Yes	22	7	1,144
FALSE	Yes	33	0	6,708
Yes	Yes	28	4	39,839
FALSE	Yes	67	0	1
FALSE	Yes	29	0	2,173
FALSE	Yes	46	0	4,558
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
FALSE	Yes	37	0	8,735
FALSE	Yes	19	0	1,545
FALSE	Yes	67	0	1
Yes	Yes	40	1	7,288
Yes	Yes	67	2	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	49	4	12,522
FALSE	Yes	67	0	1
FALSE	Yes	50	0	8,822
FALSE	Yes	28	0	1,683
Yes	Yes	46	1	3,616
Yes	Yes	48	2	9,887
Yes	Yes	37	14	52,191
FALSE	Yes	30	0	7,163
Yes	Yes	50	5	13,129
Yes	Yes	25	1	9,111
FALSE	Yes	67	0	1

FALSE	Yes	67	0	1
Yes	Yes	7	7	217,025
Yes	Yes	6	8	218,079
FALSE	Yes	11	0	7,066
Yes	Yes	39	2	29,125
Yes	Yes	42	7	41,128
FALSE	Yes	16	0	794
FALSE	Yes	34	0	10,872
Yes	Yes	47	1	11,584
FALSE	Yes	67	0	1
Yes	Yes	42	3	14,096
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	36	3	13,763
Yes	Yes	45	4	21,272
FALSE	Yes	39	0	4,026
FALSE	Yes	41	0	4,828
Yes	Yes	41	2	11,183
Yes	Yes	67	1	1
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
Yes	Yes	44	3	11,299
Yes	Yes	41	2	9,997
Yes	Yes	67	1	1
Yes	Yes	11	3	923
Yes	Yes	46	1	9,462
Yes	Yes	47	2	15,281
Yes	Yes	45	3	11,094
Yes	Yes	47	3	9,078
FALSE	Yes	40	0	9,197

Yes	Yes	39	3	30,085
Yes	Yes	38	2	14,310
Yes	Yes	46	3	18,545
FALSE	Yes	19	0	5,387
Yes	Yes	67	8	1
FALSE	Yes	32	0	5,765
FALSE	Yes	39	0	10,369
Yes	Yes	33	1	11,337
Yes	Yes	48	24	67,260
FALSE	FALSE	32	0	55,648
FALSE	Yes	33	0	13,982
Yes	Yes	43	4	17,152
FALSE	Yes	20	0	12,499
FALSE	Yes	3	0	23,652
FALSE	Yes	37	0	8,631
Yes	FALSE	1	1	82,959
Yes	Yes	2	1	6,807
Yes	Yes	36	4	30,895
FALSE	Yes	67	0	1
Yes	Yes	63	63	137,688
Yes	Yes	62	62	137,709
Yes	Yes	2	1	18,140
FALSE	Yes	67	0	1
Yes	Yes	21	1	2,997
Yes	Yes	48	3	11,722
Yes	Yes	43	1	11,950
FALSE	Yes	42	0	7,912
Yes	Yes	46	1	11,484
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	38	1	13,473
Yes	Yes	47	2	14,296
FALSE	Yes	25	0	6,436
FALSE	Yes	23	0	3,177
Yes	Yes	45	3	17,571

Yes	Yes	44	1	3,841
Yes	Yes	11	4	66,091
FALSE	Yes	38	0	2,063
FALSE	Yes	34	0	3,723
FALSE	Yes	67	0	1
Yes	Yes	28	1	23,683
Yes	Yes	50	5	8,875
Yes	Yes	30	4	12,800
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	67	3	1
FALSE	Yes	21	0	26,096
Yes	Yes	32	1	9,040
Yes	Yes	5	2	58,323
FALSE	Yes	24	0	12,009
Yes	Yes	31	2	14,259
Yes	Yes	39	2	9,175
Yes	Yes	2	1	111,721
FALSE	Yes	67	0	1
FALSE	Yes	2	0	452
FALSE	Yes	39	0	9,141
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	40	2	10,328
Yes	Yes	2	1	104,735
FALSE	Yes	2	0	34,890
Yes	Yes	25	5	17,396
FALSE	Yes	7	0	7,517
Yes	Yes	67	5	1
Yes	Yes	37	2	12,094
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FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	67	1	1
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Yes	Yes	67	1	1

FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	28	0	14,107
FALSE	Yes	36	0	15,326
FALSE	Yes	67	0	1
Yes	Yes	41	3	16,834
FALSE	Yes	67	0	1
Yes	Yes	46	6	35,065
Yes	Yes	43	2	14,734
FALSE	Yes	41	0	6,876
FALSE	Yes	67	0	1
FALSE	Yes	23	0	2,638
Yes	Yes	37	2	21,474
FALSE	Yes	17	0	2,185
FALSE	Yes	67	0	1
Yes	Yes	67	4	1
Yes	Yes	67	6	1
Yes	Yes	67	4	1
Yes	Yes	67	4	1
Yes	Yes	41	1	11,618
Yes	Yes	42	1	10,076
FALSE	Yes	34	0	7,263
FALSE	Yes	36	0	6,714
Yes	Yes	47	2	15,931
Yes	Yes	39	3	12,392
FALSE	Yes	37	0	10,930
FALSE	Yes	67	0	1
Yes	Yes	43	2	17,986
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	FALSE	6	0	6,172
Yes	Yes	35	18	43,259
Yes	Yes	49	5	15,113
Yes	Yes	43	2	13,456
FALSE	Yes	38	0	5,851
Yes	Yes	23	16	35,636
FALSE	Yes	8	0	11,307
FALSE	Yes	31	0	8,570

Yes	Yes	41	2	10,149
Yes	Yes	49	3	7,994
FALSE	Yes	22	0	11,160
Yes	Yes	27	7	23,776
Yes	Yes	35	27	68,478
Yes	Yes	31	26	75,216
Yes	Yes	67	5	1
FALSE	Yes	43	0	6,368
FALSE	FALSE	10	0	24,315
FALSE	FALSE	63	0	45,570
FALSE	Yes	33	0	845
FALSE	Yes	67	0	1
FALSE	Yes	44	0	14,098
Yes	Yes	41	1	5,499
FALSE	Yes	39	0	4,954
Yes	Yes	43	2	11,662
FALSE	Yes	67	0	1
FALSE	Yes	28	0	3,867
FALSE	Yes	25	0	7,316
Yes	Yes	43	2	15,446
Yes	Yes	42	2	14,343
FALSE	Yes	67	0	1
Yes	Yes	48	1	7,690
FALSE	Yes	31	0	6,142
Yes	Yes	40	2	11,990
FALSE	Yes	34	0	5,787
Yes	Yes	41	2	13,064
Yes	Yes	67	1	1
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
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FALSE	Yes	37	0	11,666
Yes	Yes	44	2	14,805
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Yes	FALSE	63	63	218,300
Yes	Yes	23	1	12,204
FALSE	Yes	35	0	10,255
Yes	Yes	39	1	9,881
FALSE	Yes	67	0	1
FALSE	Yes	10	0	237
FALSE	Yes	30	0	7,519
FALSE	Yes	67	0	1
Yes	Yes	40	2	13,100
FALSE	Yes	42	0	3,528
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	35	4	14,450
Yes	Yes	33	8	1,267
Yes	Yes	63	60	116,487
Yes	Yes	67	1	1
FALSE	Yes	38	0	10,581
FALSE	Yes	67	0	1
FALSE	Yes	1	0	4,471
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
FALSE	Yes	58	0	36,556
Yes	Yes	67	1	1
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Yes	Yes	41	1	9,276
Yes	Yes	12	1	528
Yes	Yes	3	1	73,626
Yes	Yes	39	1	1,496
Yes	FALSE	2	2	97,498
FALSE	Yes	40	0	2,119
FALSE	Yes	33	0	6,716
FALSE	FALSE	3	0	36,736
FALSE	Yes	2	0	5,156
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FALSE	Yes	5	0	15,307
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FALSE	Yes	39	0	998
FALSE	Yes	32	0	2,447
FALSE	Yes	36	0	1,697
FALSE	Yes	34	0	2,528
FALSE	Yes	34	0	2,570
FALSE	Yes	3	0	11,326
Yes	Yes	1	1	1,829
Yes	Yes	61	19	75,716
Yes	Yes	58	1	30,227
FALSE	Yes	39	0	6,546
FALSE	Yes	67	0	1
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Yes	Yes	60	1	23,597
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
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Yes	Yes	1	47	429,520
Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
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Yes	Yes	62	62	155,889
Yes	Yes	67	1	1
Yes	Yes	60	2	44,723
FALSE	Yes	51	0	11,888
FALSE	Yes	2	0	5,490
FALSE	Yes	7	0	12,604
FALSE	Yes	67	0	1
Yes	Yes	1	1	52,953
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
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Yes	Yes	67	6	1
Yes	Yes	1	1	52,284

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FALSE	FALSE	16	0	14,679
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Yes	Yes	58	1	22,360
FALSE	Yes	1	0	40,477
Yes	Yes	67	5	1
FALSE	Yes	67	0	1
Yes	Yes	1	43	327,574
Yes	Yes	2	1	28,396
FALSE	FALSE	1	0	13,035
FALSE	Yes	2	0	9,023
FALSE	Yes	19	0	9,525
FALSE	Yes	13	0	9,525
Yes	Yes	47	11	70,063
Yes	Yes	67	1	1
FALSE	Yes	1	0	20,483
Yes	Yes	9	2	106,801
Yes	Yes	67	1	1
Yes	Yes	1	11	231,616
Yes	Yes	67	1	1
FALSE	FALSE	1	0	13,602
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	47	47	107,774
Yes	Yes	7	1	6,817
Yes	FALSE	45	59	1,838,801
Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	17	4	5,379
FALSE	Yes	15	0	1,714
FALSE	Yes	67	0	1
Yes	Yes	2	1	6,421
Yes	Yes	44	44	204,765
Yes	Yes	29	1	19,046
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1

FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	FALSE	21	51	667,509
Yes	Yes	41	43	176,701
Yes	Yes	42	44	195,743
Yes	Yes	5	5	324,839
Yes	FALSE	0	46	3,695,387
Yes	Yes	47	54	607,006
Yes	FALSE	0	1	2,975,527
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	FALSE	35	39	418,694
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	FALSE	23	0	10,555
FALSE	Yes	5	0	7,965
FALSE	Yes	2	0	4,869
FALSE	Yes	67	0	1
FALSE	Yes	14	0	7,377
Yes	Yes	62	62	751,024
Yes	Yes	54	1	22,666
FALSE	Yes	49	0	20,881
Yes	Yes	64	25	50,050
Yes	Yes	60	24	54,650
FALSE	Yes	12	0	1,368
FALSE	Yes	45	0	12,250
Yes	FALSE	37	11	106,124
Yes	Yes	67	1	1
FALSE	Yes	14	0	1,583
FALSE	Yes	18	0	5,690
FALSE	Yes	67	0	1
Yes	Yes	11	3	43,514

Yes	Yes	23	1	3,383
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	37	2	47,128
FALSE	Yes	4	0	1,036
Yes	Yes	54	11	33,653
Yes	Yes	55	7	33,562
Yes	Yes	32	40	309,375
Yes	Yes	55	11	37,150
FALSE	Yes	17	0	521
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	30	44	323,958
Yes	Yes	55	7	29,946
Yes	Yes	67	2	1
FALSE	Yes	67	0	1
Yes	Yes	32	38	215,274
Yes	FALSE	29	50	361,859
Yes	FALSE	28	56	355,277
Yes	FALSE	28	56	355,109
Yes	Yes	67	1	1
FALSE	FALSE	3	0	6,050
Yes	Yes	34	6	50,957
Yes	Yes	25	34	1,252,340
Yes	Yes	32	5	49,798
Yes	Yes	67	11	1
Yes	Yes	15	19	277,100
FALSE	Yes	31	0	12,427
Yes	FALSE	26	41	1,333,414
Yes	Yes	15	1	1,093
FALSE	Yes	18	0	12,226
FALSE	Yes	67	0	1
FALSE	Yes	16	0	3,419
Yes	Yes	43	1	14,570
Yes	Yes	67	1	1
FALSE	Yes	3	0	774
FALSE	Yes	19	0	6,414
Yes	Yes	67	1	1
Yes	Yes	50	23	53,499
Yes	Yes	11	8	87,479

Yes	Yes	12	8	82,183
FALSE	Yes	10	0	14,429
Yes	Yes	5	1	27
FALSE	Yes	8	0	4,268
Yes	Yes	1	1	123,540
Yes	Yes	10	1	10,197
FALSE	Yes	67	0	1
Yes	Yes	20	1	2,346
Yes	Yes	30	2	11,501
Yes	Yes	67	1	1
FALSE	Yes	19	0	9,711
FALSE	Yes	12	0	11,785
FALSE	Yes	67	0	1
FALSE	Yes	30	0	36,939
Yes	Yes	27	2	28,825
Yes	Yes	39	15	64,704
FALSE	Yes	36	0	3,914
FALSE	Yes	31	0	9,572
Yes	Yes	41	5	52,475
Yes	Yes	15	11	1,175
Yes	Yes	37	5	50,546
Yes	Yes	8	7	1,909
Yes	Yes	41	42	409,291
Yes	Yes	26	8	73,464
Yes	Yes	30	43	314,986
Yes	Yes	46	5	51,907
Yes	FALSE	42	44	415,535
Yes	Yes	50	19	78,760
Yes	Yes	67	1	1
FALSE	Yes	47	0	11,145
FALSE	Yes	67	0	1

Yes	Yes	25	47	777,174
Yes	Yes	5	1	514
FALSE	Yes	3	0	645
FALSE	Yes	42	0	12,604
FALSE	Yes	67	0	1
Yes	Yes	25	45	683,092
Yes	Yes	3	1	72,486
Yes	Yes	67	2	1
FALSE	Yes	67	0	1
Yes	Yes	25	41	431,562
Yes	Yes	18	2	9,588
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	1	1	112,964
Yes	Yes	39	2	12,328
Yes	Yes	67	3	1
Yes	Yes	8	9	154,999
Yes	Yes	38	1	22,390
FALSE	Yes	40	0	35,981
Yes	Yes	13	2	19,214
FALSE	Yes	21	0	27,660
Yes	Yes	40	1	35,553
Yes	Yes	37	1	35,937
Yes	Yes	15	20	205,505
Yes	Yes	19	2	2,356
Yes	Yes	10	1	2,569
Yes	Yes	22	10	53,219
Yes	Yes	41	4	50,511
Yes	Yes	22	1	36,373
Yes	Yes	67	1	1
Yes	Yes	67	1	1
FALSE	Yes	2	0	502

FALSE	Yes	67	0	1
Yes	Yes	27	1	10,404
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	11	2	808
FALSE	Yes	67	0	1
Yes	Yes	60	4	25,538
Yes	Yes	60	3	26,183
Yes	Yes	2	1	25,892
Yes	FALSE	4	5	259,522
Yes	Yes	31	3	15,848
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	22	0	3,415
Yes	Yes	1	1	50,961
Yes	Yes	6	1	65,029
Yes	Yes	17	1	38,737
FALSE	Yes	33	0	31,435
FALSE	Yes	24	0	4,812
FALSE	Yes	14	0	535
FALSE	Yes	23	0	11,343
FALSE	Yes	15	0	4,796
Yes	Yes	28	1	21,192
FALSE	Yes	27	0	21,068
Yes	Yes	24	17	113,270
Yes	Yes	5	3	321
FALSE	Yes	7	0	14,120
Yes	Yes	31	36	177,932
Yes	Yes	30	35	174,560
Yes	Yes	37	42	498,646
Yes	Yes	36	44	500,434

Yes	Yes	49	44	119,080
Yes	Yes	47	43	119,710
FALSE	Yes	17	0	3,032
FALSE	Yes	10	0	831
FALSE	Yes	67	0	1
FALSE	Yes	32	0	32,103
Yes	Yes	44	3	37,175
Yes	Yes	25	3	4,714
Yes	Yes	30	1	33,740
FALSE	Yes	11	0	6,864
FALSE	Yes	2	0	5,768
Yes	Yes	25	1	3,613
Yes	Yes	67	1	1
FALSE	Yes	14	0	6,489
Yes	Yes	2	2	54,872
FALSE	Yes	67	0	1
Yes	Yes	67	2	1
Yes	Yes	67	1	1
Yes	Yes	43	41	116,387
Yes	Yes	17	17	177,992
Yes	Yes	67	1	1
Yes	FALSE	18	18	205,818
FALSE	Yes	67	0	1
Yes	Yes	41	33	121,823
Yes	Yes	62	63	752,291
Yes	Yes	24	51	495,575
Yes	Yes	41	4	15,956
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	12	2	5,650
Yes	Yes	33	11	56,417
Yes	Yes	35	11	62,031
Yes	Yes	67	1	1

Yes	Yes	8	1	15,031
FALSE	Yes	67	0	1
Yes	Yes	22	40	321,176
Yes	Yes	10	4	45,809
Yes	Yes	11	1	107
Yes	Yes	67	2	1
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FALSE	FALSE	30	0	25,820
Yes	FALSE	2	2	123,698
Yes	Yes	2	2	11,849
FALSE	Yes	18	0	7,421
Yes	Yes	2	1	28,581
Yes	Yes	2	47	764,391
Yes	Yes	26	30	225,216
Yes	FALSE	21	21	292,964
Yes	Yes	46	2	4,668
Yes	Yes	47	2	12,711
FALSE	Yes	67	0	1
Yes	Yes	37	1	17,417
FALSE	Yes	8	0	3,275
Yes	Yes	67	2	1
Yes	Yes	26	23	89,256
Yes	FALSE	0	47	1,257,042
Yes	Yes	23	7	40,009
Yes	Yes	37	38	216,751
Yes	Yes	27	23	84,192
Yes	FALSE	0	47	1,269,447
Yes	Yes	37	7	36,525
Yes	Yes	67	3	1
FALSE	Yes	67	0	1

Yes	Yes	40	4	52,916
Yes	Yes	67	10	1
Yes	Yes	67	11	1
Yes	Yes	67	7	1
Yes	Yes	41	42	159,650
Yes	Yes	20	2	5,300
FALSE	Yes	19	0	3,792
Yes	Yes	38	1	44,289
FALSE	FALSE	15	0	20,525
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	67	2	1
FALSE	Yes	12	0	205
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	24	1	3,114
FALSE	Yes	67	0	1
Yes	Yes	2	2	55,366
FALSE	Yes	1	0	24,086
Yes	Yes	41	5	8,750
Yes	Yes	67	1	1
Yes	Yes	67	2	1
Yes	FALSE	2	47	568,051
Yes	Yes	33	4	7,337
FALSE	Yes	67	0	1
Yes	Yes	32	7	25,187
FALSE	Yes	67	0	1
Yes	Yes	39	5	4,066
Yes	Yes	67	2	1
Yes	Yes	49	21	27,638
Yes	Yes	53	31	43,866

Yes	Yes	29	9	46,731
FALSE	FALSE	4	0	6,394
Yes	Yes	2	1	24,650
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Yes	Yes	7	1	6,588
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Yes	Yes	43	27	65,367
Yes	Yes	52	26	84,154
Yes	Yes	34	6	3,639
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FALSE	Yes	22	0	36,500
FALSE	Yes	67	0	1
FALSE	Yes	27	0	7,864
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Yes	Yes	28	1	15,600
FALSE	Yes	17	0	702
FALSE	Yes	67	0	1
Yes	Yes	12	1	910
FALSE	Yes	33	0	22,108
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FALSE	Yes	22	0	3,623
FALSE	Yes	36	0	34,094
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FALSE	Yes	67	0	1
Yes	Yes	39	4	7,718
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Yes	Yes	8	4	42,089
Yes	Yes	7	3	48,476
Yes	Yes	2	1	46,413
FALSE	FALSE	17	0	42,129
Yes	FALSE	0	19	365,158
Yes	Yes	17	1	20,157
Yes	FALSE	0	19	365,793
Yes	Yes	8	2	483
FALSE	Yes	67	0	1
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Yes	Yes	14	2	17,655
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Yes	Yes	67	1	1
Yes	Yes	11	2	1,182
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FALSE	Yes	67	0	1
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Yes	Yes	2	2	1,004
Yes	Yes	40	18	70,001
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Yes	Yes	9	1	6,466
Yes	Yes	67	2	1
FALSE	Yes	67	0	1
Yes	Yes	67	1	1

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Yes	FALSE	0	41	515,941
Yes	Yes	2	34	438,459
Yes	Yes	67	1	1
Yes	Yes	1	28	450,335
Yes	Yes	8	2	14,880
Yes	Yes	3	2	5,219
Yes	Yes	67	2	1
FALSE	Yes	14	0	23,841
FALSE	Yes	67	0	1
Yes	Yes	52	15	14,914
Yes	Yes	47	14	15,711
Yes	Yes	39	64	559,053
Yes	Yes	3	2	5,331
Yes	Yes	45	4	17,564
FALSE	Yes	26	0	8,031
Yes	Yes	47	1	4,049
Yes	Yes	35	1	3,519
FALSE	Yes	67	0	1
Yes	Yes	34	3	35,072
Yes	Yes	67	1	1
Yes	Yes	15	1	2,790
Yes	Yes	13	10	3,785
Yes	Yes	43	45	194,826
Yes	Yes	44	45	199,582
Yes	Yes	67	1	1
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Yes	Yes	34	2	4,841
FALSE	Yes	67	0	1
FALSE	Yes	1	0	7,538
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
Yes	Yes	67	2	1
Yes	Yes	30	2	26,549
Yes	Yes	30	1	45,327
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	33	13	74,932
Yes	FALSE	26	13	94,756
Yes	FALSE	32	14	95,955
Yes	Yes	7	1	31,552
Yes	Yes	21	1	4,894
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	FALSE	3	0	24,374
FALSE	Yes	6	0	608
FALSE	Yes	4	0	542
FALSE	FALSE	0	0	41,022
Yes	Yes	41	13	41,407
Yes	Yes	21	1	6,276
FALSE	Yes	10	0	2,704
FALSE	Yes	5	0	1,859
FALSE	Yes	11	0	5,489
Yes	Yes	11	24	333,002
Yes	Yes	32	52	292,914
Yes	Yes	38	53	272,405
Yes	Yes	20	4	69,896
Yes	FALSE	0	11	190,184
Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	6	0	571
Yes	Yes	41	1	10,893
Yes	Yes	43	15	22,798
FALSE	FALSE	2	0	22,575
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	49	13	36,356
Yes	Yes	35	7	52,804
Yes	Yes	32	7	4,319
FALSE	Yes	21	0	8,918
Yes	Yes	12	41	301,274
Yes	Yes	13	41	301,916
Yes	Yes	67	1	1
Yes	Yes	1	1	119,416
Yes	Yes	2	2	132,604
Yes	FALSE	1	1	143,966
Yes	Yes	13	2	2,318
FALSE	Yes	9	0	22,086
FALSE	Yes	3	0	2,651
FALSE	Yes	67	0	1
Yes	Yes	4	1	2,651
Yes	Yes	46	3	7,821
Yes	Yes	36	3	12,499
Yes	Yes	52	1	3,602
FALSE	Yes	21	0	2,951
Yes	Yes	2	1	103
FALSE	Yes	11	0	2,972
Yes	Yes	3	4	183,840
Yes	Yes	67	1	1
Yes	Yes	12	1	297

FALSE	Yes	67	0	1
Yes	Yes	44	1	38,176
Yes	Yes	46	2	31,723
Yes	Yes	67	1	1
Yes	Yes	1	1	19,833
FALSE	Yes	67	0	1
Yes	Yes	28	2	9,726
FALSE	Yes	4	0	4,679
FALSE	FALSE	7	0	52,382
Yes	Yes	10	1	43,607
FALSE	Yes	16	0	2,847
FALSE	Yes	67	0	1
FALSE	Yes	7	0	357
FALSE	Yes	67	0	1
Yes	Yes	8	1	6,833
FALSE	Yes	67	0	1
Yes	Yes	49	36	76,038
Yes	Yes	32	1	11,274
Yes	Yes	2	1	61,519
FALSE	Yes	10	0	1,193
FALSE	Yes	5	0	627
FALSE	Yes	21	0	19,942
FALSE	Yes	20	0	13,604
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
FALSE	Yes	32	0	16,168
FALSE	FALSE	26	0	18,244
FALSE	Yes	33	0	18,227
FALSE	FALSE	0	0	90,051
Yes	Yes	67	1	1
Yes	Yes	4	1	20,328
Yes	Yes	14	1	615
Yes	Yes	33	6	44,026
FALSE	Yes	20	0	8,427
Yes	Yes	67	2	1
Yes	Yes	50	13	46,451
Yes	Yes	67	1	1
Yes	Yes	39	9	51,439
Yes	Yes	52	17	73,178

FALSE	Yes	2	0	507
FALSE	Yes	67	0	1
FALSE	Yes	7	0	3,938
FALSE	Yes	15	0	2,172
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	16	2	1,233
FALSE	Yes	3	0	10,504
Yes	Yes	14	1	9,452
FALSE	Yes	67	0	1
Yes	Yes	47	16	61,594
Yes	Yes	19	1	15,963
Yes	Yes	27	5	6,509
Yes	Yes	22	6	6,570
Yes	Yes	12	1	4,522
Yes	Yes	3	1	3,915
Yes	Yes	7	1	8,001
Yes	Yes	13	1	7,993
Yes	Yes	4	1	4,166
Yes	Yes	12	2	12,622
FALSE	Yes	67	0	1
Yes	Yes	5	1	34,560
Yes	Yes	5	1	56,074
Yes	Yes	2	1	1,070
FALSE	FALSE	1	0	14,727
FALSE	FALSE	1	0	14,727
Yes	Yes	45	17	39,209
FALSE	Yes	67	0	1
FALSE	Yes	15	0	16,653
FALSE	Yes	30	0	12,548
Yes	Yes	10	52	666,830
Yes	Yes	10	53	667,893
Yes	Yes	9	2	16,742
Yes	Yes	6	2	48,614

Yes	Yes	15	1	15,260
Yes	Yes	4	1	9,016
FALSE	FALSE	1	0	1,718
FALSE	FALSE	0	0	31,546
Yes	Yes	48	1	30,866
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	34	2	6,765
Yes	Yes	43	1	3,094
Yes	Yes	37	2	17,725
Yes	Yes	40	4	29,447
Yes	Yes	67	7	1
FALSE	Yes	43	0	29,454
Yes	Yes	42	8	16,889
FALSE	Yes	67	0	1
FALSE	FALSE	0	0	75,708
FALSE	Yes	2	0	2,694
Yes	Yes	6	1	860
Yes	Yes	1	1	10,399
Yes	Yes	67	1	1
Yes	Yes	7	8	166,149
Yes	Yes	48	4	7,616
FALSE	Yes	67	0	1
FALSE	Yes	5	0	5,301
FALSE	Yes	21	0	6,869
FALSE	Yes	67	0	1
Yes	Yes	37	3	12,837
FALSE	Yes	15	0	21,489
FALSE	Yes	15	0	26,770
FALSE	Yes	2	0	1,188
Yes	Yes	7	4	97,957
FALSE	Yes	31	0	14,935
FALSE	Yes	44	0	20,471
FALSE	Yes	32	0	15,143

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Yes	Yes	45	4	9,750
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	67	2	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	53	12	37,097
Yes	Yes	47	9	37,696
FALSE	Yes	3	0	617
FALSE	Yes	19	0	7,185
FALSE	Yes	9	0	560
FALSE	FALSE	2	0	36,562
FALSE	Yes	19	0	2,299
FALSE	Yes	67	0	1
Yes	Yes	42	13	63,653
Yes	Yes	32	24	98,154
Yes	Yes	27	1	4,309
Yes	Yes	2	1	17,284
FALSE	FALSE	22	0	20,235
FALSE	Yes	67	0	1
FALSE	Yes	1	0	78
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	23	0	17,609
Yes	Yes	52	6	7,464
Yes	Yes	26	2	22,197
FALSE	Yes	67	0	1
FALSE	Yes	21	0	32,061
FALSE	Yes	5	0	2,752
FALSE	Yes	18	0	711
Yes	Yes	22	7	75,459
Yes	FALSE	5	48	583,086
Yes	Yes	14	5	70,914

Yes	Yes	6	1	5,869
FALSE	Yes	5	0	7,613
FALSE	Yes	7	0	1,432
FALSE	Yes	67	0	1
FALSE	Yes	1	0	7,091
Yes	Yes	18	1	15,244
FALSE	FALSE	40	0	43,673
Yes	Yes	46	2	4,464
Yes	Yes	40	4	20,739
Yes	Yes	67	2	1
Yes	Yes	19	1	1,589
Yes	Yes	11	4	38,680
FALSE	Yes	21	0	6,613
FALSE	Yes	8	0	5,689
FALSE	Yes	11	0	2,538
Yes	Yes	4	1	52,327
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
Yes	Yes	27	3	21,576
FALSE	Yes	7	0	908
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	12	0	4,384
FALSE	Yes	31	0	10,749
FALSE	Yes	67	0	1
FALSE	FALSE	0	0	46,725
Yes	Yes	27	1	21,713
Yes	Yes	14	4	26,010
FALSE	Yes	8	0	23,160
Yes	Yes	23	13	72,926
FALSE	Yes	9	0	2,252
FALSE	Yes	19	0	6,637
Yes	Yes	40	7	4,425
FALSE	Yes	12	0	343

FALSE	FALSE	8	0	9,802
Yes	Yes	67	1	1
Yes	Yes	41	2	18,976
FALSE	Yes	21	0	6,983
Yes	Yes	42	2	21,872
Yes	Yes	55	3	17,929
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Yes	Yes	67	1	1
FALSE	FALSE	1	0	18,151
Yes	Yes	67	1	1
FALSE	FALSE	21	0	104,298
Yes	Yes	22	1	8,582
FALSE	Yes	67	0	1
FALSE	Yes	23	0	1,001
Yes	Yes	39	3	30,913
FALSE	Yes	67	0	1
Yes	Yes	25	5	8,384
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FALSE	Yes	67	0	1
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FALSE	Yes	67	0	1
Yes	Yes	48	1	6,576
Yes	Yes	35	12	46,382
FALSE	Yes	1	0	9,675
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Yes	Yes	1	1	9,499
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	FALSE	0	0	75,675
Yes	Yes	45	12	49,291
Yes	Yes	48	13	37,327
Yes	Yes	43	21	67,862
Yes	Yes	38	21	63,251
FALSE	Yes	1	0	15,903

FALSE	FALSE	0	0	10,691
FALSE	Yes	5	0	3,793
Yes	Yes	17	1	9,326
Yes	FALSE	5	2	129,449
Yes	Yes	67	1	1
Yes	Yes	1	1	86,613
Yes	Yes	12	1	3,661
Yes	Yes	43	1	38,465
Yes	Yes	4	1	49,468
Yes	Yes	29	1	55,796
Yes	Yes	4	1	33,570
Yes	Yes	26	1	60,793
FALSE	Yes	67	0	1
Yes	Yes	41	5	25,845
FALSE	Yes	67	0	1
Yes	Yes	10	4	58,329
FALSE	Yes	5	0	315
Yes	Yes	1	1	29,270
FALSE	Yes	8	0	6,000
Yes	Yes	14	1	4,667
FALSE	FALSE	29	0	43,136
Yes	Yes	2	1	8,676
Yes	Yes	40	2	17,964
Yes	Yes	53	1	19,271
FALSE	Yes	20	0	12,201
FALSE	FALSE	0	0	10,005
FALSE	Yes	46	0	17,296
Yes	Yes	33	1	16,396
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FALSE	Yes	67	0	1
FALSE	Yes	1	0	1,947
Yes	Yes	37	2	26,594
FALSE	Yes	67	0	1

FALSE	Yes	67	0	1
FALSE	Yes	9	0	9,677
Yes	Yes	21	2	3,936
Yes	Yes	30	1	4,395
FALSE	Yes	1	0	484
FALSE	Yes	3	0	1,452
Yes	Yes	12	1	1,098
FALSE	Yes	67	0	1
Yes	Yes	33	1	5,733
Yes	Yes	46	4	12,352
FALSE	FALSE	32	0	26,121
Yes	FALSE	1	1	80,735
Yes	Yes	49	2	12,916
Yes	Yes	7	1	3,146
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FALSE	Yes	52	0	22,905
FALSE	Yes	6	0	276
FALSE	Yes	2	0	16,344
FALSE	Yes	19	0	2,600
FALSE	Yes	27	0	11,513
FALSE	Yes	67	0	1
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Yes	Yes	37	2	18,830
Yes	Yes	37	4	18,793
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	FALSE	1	0	17,109
FALSE	Yes	67	0	1
FALSE	Yes	36	0	29,916
FALSE	Yes	1	0	772
FALSE	Yes	67	0	1
Yes	Yes	43	4	27,501
Yes	Yes	50	1	6,592
Yes	Yes	23	8	17,478
Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1

FALSE	Yes	67	0	1
FALSE	FALSE	30	0	19,458
FALSE	Yes	67	0	1
Yes	Yes	44	18	62,640
FALSE	Yes	67	0	1
Yes	Yes	6	1	40,516
FALSE	Yes	24	0	11,130
FALSE	Yes	4	0	1,157
Yes	Yes	1	1	22,984
FALSE	Yes	7	0	1,540
Yes	Yes	48	17	48,094
Yes	Yes	3	1	1,476
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	9	0	27,276
FALSE	Yes	2	0	286
FALSE	Yes	17	0	317
FALSE	Yes	25	0	34,173
Yes	Yes	37	1	29,283
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	29	3	36,299
Yes	Yes	38	9	56,808
Yes	Yes	50	1	8,271
FALSE	Yes	27	0	8,831
FALSE	Yes	27	0	8,874
FALSE	FALSE	3	0	11,814
Yes	Yes	7	1	2,005
FALSE	Yes	3	0	21,988
Yes	Yes	39	3	19,580
FALSE	Yes	67	0	1
FALSE	Yes	49	0	22,414
FALSE	Yes	42	0	20,319
Yes	Yes	7	2	24,174

Yes	Yes	46	4	18,770
FALSE	Yes	67	0	1
FALSE	Yes	4	0	3,484
Yes	Yes	67	1	1
Yes	Yes	67	1	1
FALSE	Yes	11	0	13,082
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FALSE	Yes	3	0	607
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Yes	Yes	53	12	29,737
Yes	Yes	20	10	4,007
Yes	Yes	19	4	902
FALSE	Yes	21	0	3,561
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FALSE	Yes	17	0	1,712
FALSE	Yes	67	0	1
Yes	Yes	48	3	5,303
Yes	Yes	40	8	41,982
FALSE	Yes	67	0	1
FALSE	Yes	15	0	2,940
FALSE	Yes	20	0	3,632
FALSE	Yes	20	0	3,622
FALSE	Yes	67	0	1
FALSE	Yes	6	0	1,659
FALSE	FALSE	10	0	5,432
Yes	Yes	42	5	48,718
Yes	Yes	34	8	41,762
Yes	Yes	22	8	429
Yes	Yes	67	2	1
FALSE	FALSE	0	0	57,767
FALSE	Yes	4	0	7,535
Yes	Yes	1	1	19,852
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Yes	Yes	67	1	1
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Yes	Yes	54	1	21,506
Yes	Yes	32	1	18,330

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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	9	0	4,127
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
FALSE	Yes	9	0	1,963
Yes	Yes	1	1	9,343
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Yes	Yes	2	1	32,532
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
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FALSE	Yes	29	0	2,183
FALSE	Yes	67	0	1
Yes	Yes	1	1	26,002
FALSE	Yes	3	0	942
FALSE	Yes	3	0	661
Yes	Yes	39	2	39,027
Yes	Yes	40	4	40,636
Yes	Yes	42	3	9,321
Yes	Yes	9	1	7,939
FALSE	Yes	13	0	2,341
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	5	1	3,252
Yes	Yes	41	1	24,006
Yes	Yes	20	1	31,385
FALSE	Yes	41	0	29,683
FALSE	Yes	7	0	739
FALSE	Yes	67	0	1
Yes	Yes	6	2	4,917

Yes	Yes	8	2	1,733
Yes	Yes	10	2	1,017
FALSE	Yes	7	0	1,926
FALSE	Yes	67	0	1
Yes	Yes	42	2	17,697
Yes	Yes	39	1	18,728
FALSE	Yes	6	0	949
FALSE	Yes	3	0	3,312
Yes	Yes	4	1	18,643
Yes	Yes	13	4	13,311
Yes	Yes	51	3	47,244
Yes	Yes	6	1	17,292
FALSE	Yes	16	0	8,740
FALSE	FALSE	1	0	85,016
Yes	Yes	19	2	13,212
Yes	Yes	27	7	67,898
Yes	Yes	64	2	28,647
FALSE	Yes	18	0	1,195
FALSE	Yes	18	0	3,775
FALSE	Yes	67	0	1
Yes	Yes	43	2	12,617
Yes	Yes	45	1	16,777
Yes	Yes	48	5	30,296
Yes	Yes	67	8	1
Yes	Yes	2	1	193
FALSE	Yes	67	0	1
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FALSE	Yes	3	0	1,529
Yes	Yes	45	1	7,748
Yes	Yes	42	11	48,109
FALSE	Yes	67	0	1
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FALSE	Yes	5	0	1,641
Yes	Yes	29	1	3,675
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FALSE	Yes	67	0	1
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FALSE	Yes	5	0	1,478
Yes	Yes	50	7	38,117
FALSE	Yes	2	0	461
Yes	Yes	67	1	1
Yes	Yes	67	1	1
Yes	Yes	24	1	23,905
Yes	Yes	41	1	23,509
Yes	Yes	7	1	23,575
FALSE	Yes	67	0	1
FALSE	Yes	18	0	1,363
Yes	Yes	39	1	23,851
Yes	Yes	46	1	16,476
Yes	Yes	45	7	36,950
Yes	Yes	39	8	4,109
FALSE	Yes	36	0	5,722
Yes	Yes	1	1	13,886
Yes	Yes	7	1	3,688
Yes	Yes	2	1	340
FALSE	Yes	39	0	9,338
Yes	Yes	45	1	6,170
Yes	Yes	34	5	44,523
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	1	0	3,264
Yes	Yes	11	1	2,863
Yes	Yes	3	1	19,986
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	FALSE	2	0	25,914
FALSE	Yes	67	0	1
FALSE	FALSE	1	0	4,756
FALSE	Yes	67	0	1
FALSE	Yes	3	0	5,089
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	11	1	11,868
FALSE	Yes	6	0	8,637
FALSE	Yes	6	0	8,215
FALSE	Yes	1	0	6,589
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	42	2	14,843
Yes	Yes	43	1	9,301
Yes	Yes	27	5	30,525
FALSE	Yes	36	0	6,635
Yes	Yes	37	1	12,778
Yes	Yes	50	4	27,781
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Yes	Yes	8	1	887
Yes	Yes	67	1	1
Yes	Yes	67	1	1
Yes	Yes	28	1	28,879
FALSE	Yes	16	0	1,058
FALSE	Yes	11	0	1,559
Yes	Yes	44	3	14,602
Yes	Yes	41	2	17,009
FALSE	Yes	35	0	5,523
FALSE	Yes	14	0	3,299
FALSE	FALSE	6	0	11,563
Yes	Yes	67	1	1
FALSE	Yes	15	0	12,469
FALSE	Yes	67	0	1
Yes	Yes	7	1	2,373
FALSE	Yes	67	0	1
FALSE	FALSE	5	0	14,064
Yes	Yes	46	6	38,637
FALSE	Yes	14	0	20,889
Yes	Yes	38	10	19,784
FALSE	Yes	67	0	1
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Yes	Yes	1	1	12,330
Yes	Yes	7	1	3,148
Yes	Yes	1	1	21,492

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Yes	Yes	1	1	24,307
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FALSE	Yes	43	0	12,310
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FALSE	Yes	19	0	4,669
FALSE	Yes	67	0	1
FALSE	Yes	17	0	7,735
FALSE	Yes	67	0	1
Yes	Yes	16	62	411,920
Yes	Yes	17	60	411,559
Yes	Yes	17	1	3,144
FALSE	Yes	67	0	1
FALSE	Yes	9	0	1,359
Yes	Yes	6	6	102,787
FALSE	FALSE	5	0	42,537
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
FALSE	FALSE	36	0	33,888
FALSE	Yes	5	0	4,868
FALSE	Yes	11	0	2,686
Yes	Yes	40	4	37,598
Yes	Yes	22	3	195
FALSE	Yes	7	0	5,358
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FALSE	Yes	4	0	5,921
FALSE	Yes	1	0	774
Yes	Yes	1	1	10,872
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FALSE	Yes	45	0	22,659
Yes	Yes	41	8	52,702
FALSE	Yes	10	0	4,484

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Yes	Yes	5	1	814
Yes	Yes	7	1	9,547
FALSE	Yes	7	0	327
FALSE	Yes	67	0	1
FALSE	Yes	4	0	4,184
Yes	Yes	67	1	1
Yes	Yes	1	1	20,979
Yes	Yes	1	1	12,782
FALSE	Yes	26	0	11,488
FALSE	Yes	67	0	1
FALSE	Yes	3	0	12,857
FALSE	Yes	3	0	17,753
FALSE	Yes	67	0	1
FALSE	FALSE	9	0	29,857
FALSE	Yes	4	0	24,037
FALSE	Yes	21	0	254
FALSE	Yes	25	0	4,679
Yes	Yes	20	1	6,848
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	6	1	21,479
Yes	Yes	9	1	23,039
FALSE	Yes	67	0	1
Yes	Yes	16	1	1,926
Yes	Yes	42	1	11,212
Yes	Yes	39	1	9,510
Yes	Yes	48	1	14,285
Yes	Yes	19	1	4,897
Yes	Yes	18	1	4,694
FALSE	Yes	67	0	1
FALSE	FALSE	0	0	4,792
FALSE	Yes	21	0	2,516
FALSE	Yes	34	0	8,892
FALSE	Yes	39	0	10,445
Yes	Yes	44	1	15,854
FALSE	Yes	12	0	5,209
FALSE	Yes	38	0	10,366
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Yes	FALSE	1	10	345,032
Yes	Yes	8	1	271
Yes	Yes	11	47	257,661
Yes	Yes	21	4	35,395
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Yes	Yes	11	1	7,807
FALSE	Yes	49	0	7,289
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FALSE	Yes	2	0	105
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	63	4	56,086
Yes	Yes	64	5	56,094
Yes	Yes	11	1	18,212
Yes	Yes	11	1	1,935
FALSE	Yes	49	0	11,224
Yes	Yes	41	6	35,653
Yes	Yes	67	1	1
FALSE	Yes	4	0	2,086
Yes	Yes	1	1	10,816
Yes	Yes	6	1	1,376
Yes	Yes	15	1	5,603
FALSE	Yes	12	0	839
Yes	Yes	1	1	19,318
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
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FALSE	Yes	1	0	38,856
Yes	Yes	42	1	13,421
Yes	FALSE	46	20	117,036
Yes	Yes	45	9	92,116
Yes	Yes	43	2	39,917
FALSE	Yes	2	0	21,635
Yes	Yes	3	1	16,177
FALSE	Yes	1	0	970

Yes	Yes	18	1	17,142
Yes	Yes	1	1	16,441
Yes	Yes	44	2	17,256
FALSE	Yes	67	0	1
FALSE	Yes	2	0	867
Yes	Yes	4	1	5,214
FALSE	FALSE	2	0	38,089
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FALSE	Yes	67	0	1
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FALSE	Yes	67	0	1
Yes	Yes	48	1	13,192
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Yes	FALSE	1	1	136,138
Yes	Yes	44	2	47,029
Yes	Yes	6	2	100
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	1	0	1,772
FALSE	Yes	2	0	1,783
Yes	Yes	45	1	8,777
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	15	1	15,693
FALSE	Yes	19	0	894
Yes	Yes	1	1	7,484
Yes	Yes	7	1	4,005
Yes	Yes	67	1	1
Yes	Yes	11	1	7,811
Yes	Yes	15	1	9,035
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
Yes	Yes	4	1	13,743
FALSE	Yes	13	0	1,376
Yes	Yes	9	1	14,267
FALSE	Yes	12	0	239
FALSE	FALSE	43	0	33,573
Yes	Yes	11	1	2,020

FALSE	Yes	22	0	4,136
FALSE	Yes	67	0	1
Yes	FALSE	48	1	57,829
Yes	Yes	13	1	30,422
FALSE	FALSE	12	0	30,420
FALSE	Yes	2	0	19,219
FALSE	Yes	15	0	1,229
Yes	Yes	4	1	9,048
FALSE	FALSE	55	0	24,207
FALSE	Yes	55	0	23,163
FALSE	Yes	34	0	3,199
FALSE	Yes	44	0	15,294
Yes	Yes	41	1	17,366
Yes	Yes	51	1	20,682
FALSE	Yes	1	0	1,645
Yes	Yes	39	2	18,759
FALSE	Yes	24	0	3,368
FALSE	Yes	25	0	3,751
FALSE	Yes	36	0	8,818
FALSE	Yes	5	0	410
FALSE	Yes	67	0	1
FALSE	Yes	1	0	8,504
FALSE	Yes	67	0	1
FALSE	Yes	7	0	1,367
FALSE	Yes	40	0	19,254
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	67	1	1
Yes	Yes	8	1	5,872
FALSE	Yes	11	0	3,171
Yes	Yes	13	1	5,756
FALSE	Yes	42	0	2,046
Yes	Yes	67	1	1
Yes	Yes	67	1	1
Yes	Yes	9	1	23,711
FALSE	Yes	11	0	7,919
Yes	Yes	7	1	265
FALSE	Yes	11	0	527
Yes	Yes	1	1	51,089
Yes	FALSE	3	1	52,904

FALSE	Yes	20	0	2,068
FALSE	Yes	14	0	123
FALSE	Yes	2	0	50
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	10	0	632
Yes	Yes	58	47	69,302
Yes	Yes	56	51	79,219
Yes	Yes	12	2	543
Yes	Yes	1	1	18,157
Yes	Yes	35	1	11,125
FALSE	Yes	20	0	2,760
FALSE	Yes	26	0	3,098
FALSE	Yes	21	0	3,293
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	7	0	511
Yes	Yes	1	1	28,096
FALSE	Yes	29	0	4,573
FALSE	FALSE	2	0	17,056
FALSE	Yes	14	0	9,262
Yes	Yes	9	1	13,514
FALSE	Yes	2	0	14,442
FALSE	FALSE	5	0	2,404
FALSE	Yes	67	0	1
Yes	Yes	17	1	6,831
FALSE	Yes	67	0	1
FALSE	Yes	34	0	2,146
FALSE	FALSE	1	0	14,476
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	64	9	55,283
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
FALSE	Yes	27	0	1,191
Yes	Yes	7	1	554
Yes	Yes	7	1	954
FALSE	Yes	16	0	7,188
Yes	Yes	11	1	16,506
FALSE	Yes	16	0	2,590

Yes	Yes	6	1	1,415
FALSE	Yes	5	0	963
Yes	Yes	51	1	19,178
Yes	Yes	40	1	25,332
Yes	Yes	5	1	23,364
FALSE	Yes	11	0	7,733
FALSE	FALSE	4	0	68,732
FALSE	Yes	5	0	30,888
FALSE	Yes	17	0	1,747
FALSE	Yes	67	0	1
FALSE	Yes	13	0	1,378
Yes	Yes	1	1	37,189
Yes	Yes	67	1	1
FALSE	FALSE	0	0	124,059
Yes	FALSE	1	1	156,380
Yes	Yes	15	1	589
FALSE	Yes	67	0	1
FALSE	Yes	10	0	1,032
FALSE	Yes	67	0	1
FALSE	Yes	1	0	30,204
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	1	0	339
FALSE	Yes	4	0	1,811
Yes	Yes	40	1	22,370
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	7	0	403
Yes	Yes	11	1	9,307
FALSE	Yes	1	0	90
FALSE	Yes	3	0	6,754
Yes	Yes	4	1	3,012
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
Yes	Yes	10	1	4,025
Yes	Yes	7	1	5,946
FALSE	Yes	1	0	12,450

Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	29	0	6,392
Yes	Yes	67	1	1
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FALSE	Yes	7	0	1,779
FALSE	Yes	67	0	1
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Yes	Yes	17	1	17,624
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Yes	Yes	67	1	1
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Yes	Yes	7	1	517
Yes	Yes	45	1	20,969
Yes	Yes	49	1	28,876
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FALSE	FALSE	1	0	71,290
Yes	Yes	8	2	16,082
FALSE	FALSE	9	0	20,920
FALSE	Yes	11	0	2,250
FALSE	Yes	67	0	1
FALSE	Yes	3	0	954
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FALSE	FALSE	2	0	3,153
Yes	Yes	67	1	1
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FALSE	Yes	21	0	180
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
Yes	Yes	16	1	21,640
FALSE	Yes	67	0	1

Yes	Yes	28	1	15,001
FALSE	Yes	27	0	12,064
FALSE	FALSE	1	0	26,862
FALSE	Yes	67	0	1
FALSE	Yes	6	0	590
FALSE	FALSE	4	0	18,820
Yes	Yes	26	2	18,067
Yes	Yes	67	1	1
FALSE	Yes	11	0	1,266
Yes	Yes	12	1	1,747
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Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
FALSE	Yes	1	0	8,874
Yes	Yes	10	1	3,714
FALSE	Yes	67	0	1
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Yes	Yes	9	1	36,254
FALSE	Yes	9	0	8,010
Yes	Yes	13	2	38,954
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FALSE	Yes	67	0	1
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FALSE	Yes	2	0	216
Yes	Yes	2	1	21,867
FALSE	Yes	3	0	465
FALSE	Yes	11	0	1,558
Yes	Yes	67	1	1
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FALSE	Yes	67	0	1
Yes	Yes	41	1	3,192
FALSE	Yes	67	0	1
FALSE	Yes	7	0	2,923
FALSE	Yes	67	0	1
Yes	Yes	8	1	7,548
Yes	Yes	18	1	16,852
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Yes	Yes	13	1	12,497
Yes	Yes	59	1	28,520
FALSE	Yes	67	0	1

FALSE	FALSE	0	0	153,037
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Yes	Yes	67	1	1
Yes	Yes	32	1	17,912
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
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FALSE	Yes	53	0	19,472
FALSE	Yes	67	0	1
Yes	Yes	67	1	1
Yes	Yes	32	1	22,426
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FALSE	Yes	67	0	1
Yes	Yes	1	1	15,896
FALSE	Yes	67	0	1
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Yes	Yes	40	1	18,319
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Yes	Yes	67	1	1
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FALSE	Yes	26	0	23,871
FALSE	Yes	40	0	21,029
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Yes	Yes	12	1	944
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FALSE	Yes	1	0	7,927
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Yes	Yes	4	1	2,669

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FALSE	Yes	67	0	1
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Yes	Yes	16	1	14,996
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Yes	Yes	13	1	11,126
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FALSE	Yes	6	0	271
FALSE	Yes	12	0	59
Yes	Yes	14	1	24,310
FALSE	Yes	3	0	232
Yes	Yes	9	1	7,585
FALSE	Yes	2	0	961
Yes	Yes	7	1	15,549
Yes	Yes	41	1	24,637
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Yes	Yes	18	1	7,534
Yes	Yes	59	1	23,553
Yes	Yes	67	1	1
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Yes	Yes	24	1	18,378
Yes	Yes	14	1	11,131
Yes	Yes	16	1	21,106
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FALSE	Yes	2	0	651
FALSE	Yes	1	0	15,882
Yes	Yes	22	1	19,620
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FALSE	Yes	14	0	2,177
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Yes	Yes	67	1	1
FALSE	Yes	1	0	14,983
Yes	Yes	16	1	17,334
Yes	Yes	17	1	17,435
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FALSE	Yes	67	0	1
Yes	Yes	16	1	4,621
Yes	Yes	18	1	7,390
FALSE	Yes	3	0	510
Yes	Yes	18	1	13,798
FALSE	Yes	12	0	7,943

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Yes	Yes	67	1	1
FALSE	Yes	14	0	2,325
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	5	0	42
FALSE	Yes	1	0	6,334
Yes	Yes	17	1	9,089
FALSE	Yes	8	0	8,402
FALSE	Yes	5	0	1,052
Yes	Yes	61	1	23,919
Yes	Yes	67	1	1
FALSE	Yes	67	0	1
FALSE	Yes	12	0	3,696
Yes	Yes	23	1	19,943
FALSE	Yes	67	0	1
Yes	Yes	14	1	11,029
Yes	Yes	18	1	26,711
FALSE	FALSE	58	0	19,845
Yes	Yes	52	1	21,203
FALSE	FALSE	2	0	29,760
Yes	Yes	15	1	3,588
Yes	Yes	3	1	29,725
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FALSE	Yes	7	0	9,589
Yes	Yes	67	1	1
Yes	Yes	8	1	8,269
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FALSE	Yes	67	0	1
FALSE	Yes	19	0	6,065
FALSE	FALSE	43	0	49,246
FALSE	Yes	12	0	6,407
Yes	Yes	7	1	24,717
Yes	Yes	12	1	10,169
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Yes	Yes	46	1	8,580
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Yes	Yes	19	1	16,424
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FALSE	Yes	2	0	12,987
FALSE	Yes	7	0	111
FALSE	Yes	67	0	1
FALSE	Yes	12	0	1,056
FALSE	Yes	67	0	1
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Yes	Yes	4	1	38,124
Yes	Yes	29	1	6,213
Yes	Yes	22	1	6,675
FALSE	Yes	12	0	5,130
FALSE	Yes	8	0	1,401
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FALSE	FALSE	5	0	18,350
FALSE	Yes	23	0	12,543
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
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FALSE	Yes	67	0	1
FALSE	Yes	10	0	350
FALSE	Yes	1	0	7,767
FALSE	Yes	67	0	1
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Yes	Yes	15	1	12,625
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FALSE	Yes	67	0	1
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Yes	Yes	43	1	6,665
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Yes	Yes	1	1	32,214
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
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FALSE	FALSE	27	0	66,974
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FALSE	Yes	1	0	10,953
FALSE	FALSE	0	0	26,298
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Yes	Yes	67	1	1
Yes	Yes	7	1	6,236
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FALSE	Yes	7	0	2,060
FALSE	FALSE	7	0	8,223
FALSE	Yes	14	0	5,666
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FALSE	Yes	67	0	1
FALSE	Yes	13	0	1,483
FALSE	Yes	32	0	7,372
FALSE	Yes	7	0	1,575
FALSE	Yes	1	0	6,732
FALSE	Yes	67	0	1
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Yes	Yes	67	8	1
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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	1	0	4,277
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	FALSE	1	0	14,189

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FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1
FALSE	Yes	1	0	4,081
FALSE	FALSE	10	0	16,352
FALSE	Yes	67	0	1
FALSE	Yes	1	0	2,950
FALSE	FALSE	25	0	14,210
FALSE	FALSE	43	0	12,861
FALSE	Yes	67	0	1
FALSE	Yes	67	0	1

5
48

note highlight in this column if max sample<noise

	ALL Blanks n=15		
MAX of Samples	Standard Deviation	DB	DB2
94,780	13,728	1	1
333,455	20,138	1	1
646,453	27,173	1	1
741,596	32,268	1	1
407,983	20,259	1	1
8,531,606	34,259	1	1
6,938,530	35,979	1	1
214,280	9,946	1	1
56,591	0	1	1
3,017,245	853,877	1	1,659,709
413,415	9,657	1	1
275,071	0	1	1
267,850	0	1	1
1,024,710	13,455	1	13,151

68,024	0	1	1
166,337	634	1	1
50,180	0	1	1
38,980	0	1	1
40,004	4,739	1	1
12,763	0	1	1
14,472	0	1	1
4,521,556	35,155	1	70,822
232,197	0	1	1
49,716	0	1	1
57,011	0	1	1
58,525	0	1	1
24,612	1,973	1	1
36,729	0	1	1
372,691	30,763	1	31,302
63,903	7,505	1	11,024
294,378	0	1	1
10,084	1,656	1	1
29,670	4,498	1	1
155,697	0	1	1
26,489	2,063	1	1
17,754	0	1	1
514,522	154,330	1	227,726
54,577	0	1	1
15,267	0	1	1
10,498	1,365	1	1

287,703	37,019	1	1
4,120,686	8,319	1	1
31,576	1,513	1	1
131,830	337	1	1
7,728	0	1	1
44,410	0	1	1
2,745,671	15,633	1	1
13,769	0	1	1
20,522	0	1	1
30,151	0	1	1
98,311	16,969	1	1
96,163	22,865	1	1
265,722	1,793	1	1
694,475	119,505	1	44,032
6,877	0.00	1	1
4,272	0	1	1
22,247	4,183	1	1
22,829	0	1	1
3,903,056	36,587	1	71,924
758,125	42,052	1	29,672
226,714	35,868	1	13,007
55,686	0	1	1

1,228	8,491	1	1
46,237	17,317	1	1
86,398	40,044	1	14,961
853,715	378,864	1	196,193
2,119,163	1,016,035	1	510,939
396,457	195,452	1	109,491
34,582	16,131	1	1
15,667	1,473	1	1
38,188	5,002	1	1
37,800	12,145	1	1
11,446,190	1,535,842	1	1
8,804,542	1,278,544	39,672	1,684,215
134,801	9,653	1	18,094
262,768	17,049	1	11,829
1	109,034	422,286	1
83,022	2,157	1	1
25,353	9,734	1	1
32,623	4,245	1	2,367
20,097	0	1	1
53,407	11,278	1	1
53,407	11,268	1	1
8,296	5,557	1	1
17,166,596	2,634,146	378,836	4,098,194
2,040,340	1,830,568	1	7,012,335
17,166,596	1,886,925	378,836	4,098,194
251,303	30,841	1	49,259
117,371	0	1	1
459,281	75,686	32,154	15,480
398,083	91,488	2,329	1
107,837	6,954	22,835	1
355,112	84,471	59,824	32,840
46,171	2,210	1	1

563,359	166,719	1	38,130
226,514	58,781	1	3,191
63,459	0	1	1
19,122,940	5,118,160	1	3,755,791
182,038	68,585	1	1
174,319	41,001	1	26,880
29,072	2,553	1	3,458
203,381	56,852	1	28,890
315,533	12,296	1	1,503
45,053	58,897	232,130	7,653
258,741	23,234	1	23,047
54,898	91,306	356,520	8,202
23,430	4,850	1	1
36,680	0	1	1
39,446	1,009	1	1
65,649	16,669	6,409	1
15,056	452	1,753	1
502,921	21,092	1	10,222
1,928	3,545	12,919	1
488,644	25,133	1	29,442
158,480	0	1	1
236,366	8,200	1	1
197,757	9,508	1	1
145,863	9,337	1	1
124,559	1,805	1	1
197,610	0	1	1
738,149	257,284	832,030	246,811
11,878	2,269	1	1
122,433	0	1	1
132,338	0	1	1
76,987	1,912	6,786	1
28,049	2,769	6,471	1
20,130	3,854	1	1

99,932	7,403	2,080	1
234,000	13,743	1	10,860
14,575	3,221	1	1
791,209	211,667	1	465,288
46,941	1,395	1	1
143,618	2,450	1	1
55,813	0	1	1
8,863	0	1	1
35,509	0	1	1
16,526	1,246	1	1
494,032	31,964	1	21,309
27,272	96	1	1
25,884	0	1	1
170,009	6,200	1,526	4,901
23,099	6,212	1	2,332
31,303	3,946	1	10,468
278,503	10,088	1	1
33,508	0	1	1
37,682	2,575	1	1
679,968	104,541	1	211,118
84,743	5,386	1	4,886
60,456	2,120	1	4,896
142,426	11,643	1	8,043
15,378	0	1	1
111,526	33,553	1	1
78,388	4,944	16,837	4,663
109,371	6,329	6,119	18,683
3,710	434	1	1
18,015	0	1	1
272,768	16,245	1,835	22,341
417,606	21,034	3,679	24,112
399,837	23,077	1	1

121,455	9,892	2,403	1
58,912	415	1	1
16,480	360	1	1
47,672	0	1	1
108,930	4,303	1	9,899
12,828	0	1	1
168,007	19,652	1	1
107,934	13,806	4,044	1
116,053	5,230	1	1
145,358	3,650	1	7,147
32,137	0	1	1
173,281	9,926	1	8,382
112,680	4,745	1	7,752
216,365	2,034	1	1
139,299	14,876	1	1
38,499	747	1	1
26,415	5,076	2,217	1
95,849	12,405	1	1
141,664	17,689	13,114	1,202
211,688	0	1	1
130,106	13,080	1	7,535
20,929	3,131	1	1
15,178	4,202	1	1
46,875	0	1	1
15,121	0	1	1
182,983	3,617	1	1
365,823	78,689	1	1
268,550	89,835	1	1
69,559	3,418	2,162	1
461,323	41,549	1	146,986
425,176	28,729	1	9,564
16,925	0	1	1

293,692	7,298	1	1
108,541	847	1	1
44,083	0	1	1
51,883	1,101	4,108	1
51,433	1,218	4,108	1
42,242	2,014	1	1
552,772	12,861	1	29,017
212,264	5,390	3,396	1
213,628	15,595	1	1
227,047	312	1	1
48,540	303	1	1
486,384	0	1	1
152,986	32,175	122,092	8,896
245,153	222,155	870,088	13,473
526,925	82,756	145,714	54,891
220,305	30,166	73,314	26,024
65,527	14,074	1	1
118,492	6,182	1	1
77,476	3,268	1	1
147,333	11,879	11,937	2,870
20,512	0	1	1
82,852	5,399	1	10,593
7,056	0	1	1
3,103	202	783	1
8,698	372	1	1
28,022	5,478	1	1
66,505	4,037	1	8,008

58,155	2,026	1	1
32,605	1,610	1	1
38,587	615	1	1
20,038	4,055	1	1
28,494	673	2,612	1
107,292	0	1	1
8,544	96	1	1
86,691	5,449	1	5,761
21,522	94	1	1
8,716	0	1	1
39,547	973	1	3,280
97,950	9,187	1	1
170,712	6,040	1	1
23,421	0	1	1
99,360	298	1	1
270,406	28,041	1	13,880
174,768	28,038	1	13,880
6,701,135	498,843	1	105,591
288,302	472	1	1
129,250	8,654	1	8,060
246,601	5,599	1	1
247,540	6,764	1	1
230,798	6,388	1	1
245,830	10,535	1	15,434
69,407	216	1	1
211,136	13,063	1	1
65,863	0	1	1
75,945	47,190	1	12,677
117,540	46,437	1	12,677

85,117	9,830	1	15,243
61,182	0	1	1
189,365	2,073	1	5,368
30,843	0	1	1
18,919	0	1	1
14,890	4,012	1	1
7,077	762	2,787	1
37,667	4,641	1	8,037
78,543	9,100	1	15,089
37,867	762	2,618	1
9,201	974	1	1
323,914	5,724	771	1
40,573	880	1	1
124,964	24,020	1	9,238
133,773	3,801	1,350	1
125,234	1,444	1	1
193,097	5,052	1	11,835
76,487	7,593	1	1
62,624	6,043	1	1
95,246	1,661	1	1
97,296	0	1	1
35,237	314	1	1
12,045	0	1	1
14,229	0	1	1
22,399	1,881	1	1
227,849	19,192	2,879	12,925
19,045	3,671	1	1
2,594	1,746	1	1
26,883	0	1	1
716,935	14,479	3,319	26,036
175,743	0	1	1
175,743	0	1	1

32,168	640	1	1
19,437	0	1	1
27,276	54	1	1
61,887	4,272	625	5,193
71,999	3,476	1	1
126,637	4,089	1	1
12,481	2,429	1	2,880
12,395	0	1	1
9,686	0	1	1
3,333,535	658,678	1	1,078,491
766,321	670,991	1	1
3,346,014	667,281	1	1,094,280
792,986	1,910	1	7,133
60,099	0	1	1
74,333	9,024	1	8,050
10,617	0	1	1
19,812	416	1	1
55,156	7,474	1	7,324
44,716	7,632	1	15,327
39,036	389	1	1
93,486	4,819	1	1
79,052	0	1	1
145,633	15,448	1	25,974
158,789	15,794	1	25,347
58,417	10,267	1	1
930,645	12,951	1	1
246,886	17,672	1,908	1
265,721	1,847	1,007	1

114,663	521	1	1
478,880	84,436	1	159,755
122,349	2,345	1	1
431,763	7,444	1	16,537
178,494	132	1	1
70,971	375	1	1
22,158	0	1	1
58,182	5,409	1	12,681
114,710	11,872	1	1
45,571	20,175	1	1
14,758	417	1	1
16,267	0	1	1
15,645	63	1	1
55,973	3,911	1	1
66,847	4,829	1,487	10,919
39,260	7,024	19,766	2,982
5,644	0	1	1
16,548	0	1	1
85,882	6,841	1	4,901
14,335	0	1	1
127,374	2,945	1	1
117,157	6,384	1	1
29,500	0	1	1
158,297	6,920	1	1
353,311	4,533	1	1
29,240	3,824	1	3,580
21,521	0	1	1
107,013	32,870	1	8,196
103,207	31,386	1	6,690
108,984	31,262	1	8,196
44,801	3,976	1	1
540	0	1	1
4,075	0	1	1
34,454	4,190	1	1

124,045	3,645	1	1
54,368	4,215	1	5,455
61,737	4,426	1	1
112,741	0	1	1
7,393	0	1	1
96,418	4,476	1	1
496,572	8,311	1	12,166
622,192	4,390	2,168	7,668
91,646	4,076	1	1
91,401	8,602	1	12,609
503,549	9,032	1	13,604
205,540	13,655	4,099	13,251
64,272	928	1	1
213,493	12,073	1	15,789
49,980	13,405	1	10,978
37,607	6,780	1	1
26,127	3,177	1	3,056
32,931	4,700	1	1
317,344	24,383	1	48,709
185,678	8,280	1	14,481
85,378	8,323	5,766	16,243
18,780	587	2,276	1
130,099	6,095	1	9,759
115,468	5,624	1	9,151
124,146	3,525	1	1
540,985	45,747	1	75,217
84,358	0	1	1

449,517	1,243	1	1
63,521	7,168	1	11,515
52,817	9,882	1	3,481
513,496	8,528	1	1
72,296	15,901	1	1
99,803	15,683	1	15,280
129,650	15,381	7,661	18,234
139,199	14,386	1	13,299
262,870	7,469	3,361	8,114
13,888	0	1	1
5,674	771	1	1
131,997	33,243	1	1
197,261	0	1	1
71,402	2,909	1	1
18,677	0	1	1
87,654	21,614	1	1
48,946	4,243	6,855	1
53,143	5,018	1	3,861
44,471	6,990	1	1
65,827	12,106	1	1
67,490	13,560	1	1
34,629	6,350	1	1
71,543	10,228	1	6,289
62,924	0	1	1
88,464	0	1	1
57,733	6,497	1	11,781
41,432	2,707	2,732	1,958
33,561	2,442	1	1

166,299	7,493	2,981	1
31,528	3,745	1	1
56,935	0	1	1
79,856	6,395	1	14,164
448,533	13,554	1	8,048
9,545	0	1	1
406,412	11,942	1	1
29,761	0	1	1
46,273	10,329	1	1
32,019	135	1	1
41,891	4,215	1	1
71,026	6,451	1	11,920
68,424	6,309	1	12,287
66,371	0	1	1
27,035	2,165	1	1
79,352	7,560	1	9,819
93,093	56,909	1	16,951
129,213	4,498	1	1
93,419	56,845	1	20,530
129,213	9,916	9,045	5,195
49,047	14,321	1	1
28,438	1,100	1	1
37,222	5,531	1	1
370,530	14,754	1	1
59,966	9,560	3,128	1
46,276	2,731	1	5,105
105,406	12,198	1	1
66,586	627	1	1

19,475	1,965	1	4,190
59,351	6,961	1	17,234
59,769	6,461	1	15,982
42,389	830	1	1
10,256	655	1	1
9,659	0	1	1
18,942	770	1	1
61,993	0	1	1
257,865	227	879	1
202,267	14,112	1	14,207
189,208	9,126	1	8,825
559,684	187,348	1	112,742
559,684	186,531	1	112,742
559,684	187,063	1	112,742
277,837	4,744	1	4,139
25,044	1,837	1	5,615
192,165	18,755	16,997	1
389,600	97,702	20,796	56,217
142,418	23,592	89,098	1
1,365,881	328,189	1	273,851
1,366,362	328,034	1	273,851
1,366,906	327,518	1	273,851
562,292	24,560	1	1
66,723	3,202	1	1
608,198	126,648	1	112,396
608,198	126,986	1	110,768
227,383	0	1	1
33,392	4,521	1	8,179
58,973	5,946	3,503	1
65,793	9,988	10,758	7,523

12,846	8,649	1	1
68,703	5,585	1	4,858
113,351	28,976	1	15,693
81,234	6,686	2,033	6,676
28,534	1,232	1	1
772,093	23,059	1	1
1,610,763	296,509	1	36,190
664,357	5,089	1,624	12,560
91,127	4,388	1	1
68,038	18,157	6,429	30,111
61,520	28,682	5,390	20,143
84,907	29,986	705	57,132
165,981	3,783	1	1
28,364	5,800	1	1
15,842	4,319	1	1
595,047	107,099	1	11,638
595,047	106,403	1	11,638
595,047	106,955	1	11,638
240,310	2,904	1	3,483
59,490	0	1	1
152,383	13,188	1	6,487
14,699	0	1	1
6,986	0	1	1
74,084	5,239	1	10,323
42,571	0	1	1
11,482	1,891	1	1
33,293	3,177	1	1
249,799	429	1	1
23,697	0	1	1

27,791	3,747	2,313	6,071
59,901	2,227	1	1
18,291	0	1	1
20,449	0	1	1
21,229	0	1	1
62,741	2,841	1	1
10,090	0	1	1
7,272	0	1	1
5,230	0	1	1
4,763	0	1	1
33,004	1,841	1	1
97,001	5,813	1	1
48,053	2,576	1	1
63,323	9,794	1	1
470,292	149,714	1	1
145,481	7,063	1,975	7,354
150,711	7,770	1,935	7,248
146,927	1,458	1	1
64,183	0	1	1
67,215	22,338	1,431	1
64,183	4,360	1,431	1
55,995	859	1	1
449,337	145,522	1	1
57,291	6,347	1	10,446
53,213	3,288	1	2,069
219,473	10,488	1	12,187
166,762	7,319	1	9,172
149,370	46,863	1	1
1	0	1	1
50,625	4,981	1	10,776
50,621	4,107	1	7,626
27,782	1,962	1	5,164
12,340	0	1	1
58,830	0	1	1

218,883	17,646	1	1
58,112	15,237	1	1
11,956	0	1	1
275,464	21,805	1	6,122
54,114	2,858	1	5,995
29,271	1,323	1	1
114,225	0	1	1
74,473	4,446	1	5,837
49,779	14,946	1	1
25,094	836	1	1
64,926	2,992	1	1,897
119,923	1,465	1	1
40,206	12,150	1	1
6,350	0	1	1
34,651	2,573	1	2,036
42,746	0	1	1
41,189	0	1	1
7,471	0	1	1
26,876	0	1	1
107,265	3,061	1	1
265,100	4,374	1	10,579
22,075	4,340	1	1
58,028	3,079	1	1
256,854	7,652	1	1,994
45,322	2,972	1	1
20,205	1,928	1	5,735
88,750	2,872	1	9,437
138,367	1,382	1	1
137,505	736	1	1

18,787	0	1	1
36,180	2,804	1	1
16,250	1,714	1	2,944
86,068	5,301	1	1
157,778	381	1	1
157,778	381	1	1
30,243	2,236	1	2,287
120,536	13,280	1	4,370
5,578	0	1	1
11,798	724	1	1
38,077	1,519	1	1
368,075	0	1	1
24,145	0	1	1
35,481	2,912	1	3,276
22,637	515	1	1
7,789	0	1	1
57,098	2,429	1	1
452,525	0	1	1
38,655	0	1	1
5,801	0	1	1
190,773	4,174	1	1
16,049	0	1	1
32,058	2,941	1	1
15,524	561	1	1
86,806	1,205	1	1
247,206	3,296	1	1
254,784	17,397	1,947	1
28,589	2,388	1	6,959
161,991	4,376	1	7,550
75,999	3,037	1	7,099
49,970	0	1	1

34,879	0	1	1
293,495	72,342	1	2,215
362,023	72,693	1	1
7,766	2,355	1	1,072
67,425	9,708	1	12,392
129,652	13,709	1,624	18,936
11,873	265	1	1
31,526	3,624	1	3,533
66,684	3,861	1	1
24,917	0	1	1
101,108	4,699	1	5,125
38,026	0	1	1
17,776	0	1	1
70,573	4,588	1	1
108,060	7,091	1	1
36,497	1,342	1	1
36,406	1,609	1	1
105,414	3,728	1	1
51,725	0	1	1
50,055	0	1	1
37,456	0	1	1
208,702	3,766	1	5,944
305,001	3,332	1	1
57,015	0	1	1
416,731	308	1	1
54,374	3,154	1	1
117,112	5,094	1	1
128,890	3,698	1	1
153,769	3,026	1	1
33,088	3,066	1	4,101

89,433	10,028	1	9,548
146,588	4,770	1	1
166,438	6,182	1	8,589
34,503	1,796	1	1
127,117	0	1	1
16,546	1,922	1	5,418
42,562	3,456	1	6,718
86,802	3,779	1	7,034
163,788	22,420	957	12,820
40,364	18,549	1	1
36,457	4,661	1	13,538
84,743	5,717	1	1
25,507	4,166	1	1
39,187	7,884	1	1
37,593	2,877	1	1
74,185	27,653	1	8,540
60,349	2,269	1	1
135,059	10,298	1	7,656
12,158	0	1	1
146,196	45,896	1	15,333
146,196	45,903	1	15,333
73,992	6,047	1	1
23,403	0	1	1
57,081	999	1	1
175,581	3,907	1	1
83,860	3,983	1	1
29,830	2,637	1	1
136,930	3,828	1	2,103
15,547	0	1	1
19,696	0	1	1
80,555	4,491	1	5,408
91,271	4,765	1	8,031
16,996	2,145	1	3,386
13,433	1,059	1	1
120,477	5,857	1	8,411

58,314	1,280	1	1
88,557	22,030	1	1
16,822	688	1	2,048
17,640	1,241	1	3,689
43,510	0	1	1
88,156	7,894	1	2,921
123,524	2,958	1	3,488
92,225	4,267	1	9,091
19,818	0	1	1
19,053	0	1	1
101,888	0	1	1
44,346	8,699	1	1
87,321	3,013	1	5,024
109,940	19,441	1	1
24,129	4,003	1	1
91,541	4,753	1	6,226
72,319	3,058	1	4,593
126,335	37,240	1	1
22,044	0	1	1
5,845	151	1	1
27,802	3,047	1	4,684
7,738	0	1	1
46,506	0	1	1
117,395	3,443	1	1
120,333	34,912	1	1
43,095	11,630	1	1
109,357	5,799	1	1
41,380	2,506	1	1
103,539	0	1	1
99,386	4,031	1	7,569
33,594	0	1	1
10,729	0	1	1
55,104	0	1	1
51,912	0	1	1
17,660	0	1	1
55,629	0	1	1

33,320	0	1	1
46,623	0	1	1
30,426	4,702	1	4,868
30,688	5,109	1	1
15,375	0	1	1
117,803	5,611	1	13,259
21,069	0	1	1
121,949	11,688	1	11,085
73,011	4,911	1	1
47,416	2,292	1	2,422
33,321	0	1	1
12,448	879	1	1
127,577	7,158	1	1
36,080	728	1	1
15,449	0	1	1
77,258	0	1	1
93,771	0	1	1
73,042	0	1	1
57,869	0	1	1
86,200	3,873	1	7,302
79,132	3,359	1	7,543
23,786	2,421	1	2,260
23,481	2,238	1	2,781
96,805	5,310	1	7,396
102,796	4,131	1	9,172
39,545	3,643	1	6,658
8,045	0	1	1
66,327	5,995	1	1
21,795	0	1	1
9,672	0	1	1
7,540	0	1	1
5,550	2,057	1	1
136,495	14,420	1	31,934
194,342	5,038	1	5,238
89,709	4,485	1	6,770
33,274	1,950	1	3,210
1,325,305	11,879	1	22,925
12,718	3,769	1	1
15,350	2,857	1	1

62,603	3,383	1	6,993
76,410	2,665	1	2,930
32,198	3,720	1	1
167,586	7,925	1	13,712
672,647	22,826	1	47,806
583,597	25,072	1	48,121
221,022	0	1	1
30,568	2,123	1	2,421
19,392	8,105	1	1
45,121	15,190	1	1
22,406	282	1	1
5,304	0	1	1
28,339	4,699	12,017	10,039
64,527	1,833	1	1
18,429	1,651	1	1
82,647	3,887	1	1,733
31,343	0	1	1
23,306	1,289	1	1
21,643	2,439	1	7,546
85,109	5,149	1	6,368
79,485	4,781	1	5,253
31,395	0	1	1
50,738	2,563	1	1
30,802	2,047	1	1
62,944	3,997	1	4,291
18,113	1,929	1	4,977
64,766	4,355	1	1,949
52,200	0	1	1
69,447	0	1	1
13,459	0	1	1
39,946	3,648	1	1
44,115	3,889	1	2,193
66,096	4,935	1	9,100
46,938	0	1	1
52,377	1,815	1	1
20,068	0	1	1
13,586	768	1	1

208,810	72,767	1	23,377
81,014	4,068	1	1
45,122	3,418	1	7,406
52,159	3,294	1	1
12,596	0	1	1
4,936	79	1	1
39,959	2,506	1	1
28,587	0	1	1
58,320	4,367	1	4,228
24,761	1,176	1	1
30,163	0	1	1
27,593	0	1	1
54,673	4,817	1	11,740
257,233	422	1	1
117,749	38,829	1	12,941
60,295	0	1	1
40,561	3,527	5,617	1
37,680	0	1	1
12,302	1,490	1	1
72,919	0	1	1
9,622	0	1	1
42,037	12,185	1	1
68,475	0	1	1
45,619	0	1	1
57,934	3,092	1	1
50,231	176	1	1
150,413	24,542	1	13,779
51,614	499	1	1
74,773	32,499	1	1
23,630	706	1	1
25,053	2,239	1	1
27,099	12,245	1	1
5,618	1,719	1	1
38,729	0	1	1
32,715	2,111	1	7,748
37,277	0	1	1
17,660	0	1	1
25,397	5,102	1	1
13,574	475	1	1

3,846	0	1	1
1,850	0	1	1
22,201	333	1	1
30,713	816	1	1
16,645	566	1	1
14,923	843	1	1
32,833	857	1	1
16,814	3,775	1	1
108,746	610	2,362	1
94,879	25,239	1	8,791
161,841	10,076	1	1
41,670	2,182	1	1
27,760	0	1	1
11,121	0	1	1
56,194	7,866	1	1
10,694	0	1	1
5,128	0	1	1
15,722	0	1	1
12,652	0	1	1
20,514	0	1	1
25,845	0	1	1
986,503	143,173	1	77,054
273,265	0	1	1
9,124	0	1	1
17,511	0	1	1
5,743	0	1	1
195,083	51,963	1	20,373
61,944	0	1	1
93,019	14,908	1	5,065
35,384	3,963	1	1
9,419	1,830	1	1
19,560	4,201	1	1
3,791	0	1	1
61,329	17,651	1	1
29,597	0	1	1
13,199	0	1	1
11,924	0	1	1
14,609	0	1	1
142,201	0	1	1
62,927	17,428	1	1

30,989	0	1	1
12,052	4,893	1	1
11,836	0	1	1
68,847	7,453	1	1
43,788	13,492	1	1
73,770	0	1	1
18,606	0	1	1
534,369	109,191	1	66,114
164,430	9,465	1	1
7,436	4,345	1	1
15,303	3,008	1	1
42,627	3,175	1	1
42,627	3,175	1	1
2,604,498	23,354	1	52,363
59,630	0	1	1
23,858	6,828	1	1
117,798	35,600	1	26,730
78,481	0	1	1
383,674	77,205	1	56,462
151,634	0	1	1
13,111	4,534	1	1
5,497	0	1	1
3,402	0	1	1
175,732	35,925	1	64,391
87,455	2,272	1	1
1,579,809	612,934	1	918,946
2,198,916	0	1	1
41,016	0	1	1
9,948	0	1	1
6,832	0	1	1
9,885	0	1	1
190,571	1,793	1	1
8,871	571	1	1
11,188	0	1	1
88,576	2,140	1	1
229,152	68,255	1	92,882
145,178	6,349	1	11,808
37,612	0	1	1
18,852	0	1	1

5,945	0	1	1
7,167	0	1	1
7,789	0	1	1
609,364	222,503	914,083	213,998
491,175	58,900	102,939	43,119
491,175	65,248	102,939	159,195
444,105	108,280	372,151	83,491
640,895	1,231,796	4,933,289	146,075
651,385	202,335	1	148,719
303,125	991,842	3,842,818	1
12,388	0	1	1
8,248	0	1	1
336,278	139,565	1	169,384
17,685	0	1	1
12,490	0	1	1
6,647	3,518	1	5,268
9,795	2,655	1	1
6,175	1,623	1	1
4,447	0	1	1
10,668	2,459	1	1
898,493	250,341	1	137,235
489,841	7,555	1	1
45,688	6,960	1	1
160,860	16,683	1	29,930
160,711	18,217	1	30,618
45,864	456	1	1
48,154	4,083	1	1
66,085	35,375	1	12,463
161,300	0	1	1
34,698	528	1	1
23,108	1,897	1	1
7,122	0	1	1
76,176	14,505	1	1

186,938	1,128	1	1
6,587	0	1	1
43,119	0	1	1
60,922	15,709	1	1
2,775	345	1	1
960,565	11,218	1	1
960,565	11,187	1	1
337,244	103,125	1	19,066
960,565	12,383	1	1
22,302	174	1	1
42,195	0	1	1
10,031	0	1	1
486,447	107,986	1	24,181
305,248	9,982	1	1
311,087	0	1	1
19,830	0	1	1
318,859	71,758	1	19,975
262,014	120,620	1	1
262,014	118,426	1	9,792
262,342	118,370	1	11,002
82,105	0	1	1
2,979	2,017	7,812	1
95,258	16,986	1	1
1,332,370	417,447	1	75,063
62,643	16,599	1	1
1,774,249	0	1	1
1,005,666	92,367	1	1
27,860	4,142	1	1
1,329,815	444,471	1	75,202
327,138	364	1	1
14,265	4,075	1	1
26,184	0	1	1
20,546	1,140	1	1
84,574	4,857	1	1
170,502	0	1	1
34,979	258	1	1
32,504	2,138	1	1
136,840	0	1	1
400,836	17,833	1	6,446
336,015	29,160	1	1

121,021	27,394	1	32,510
23,690	4,810	1	1
134,285	9	1	1
8,488	1,423	1	1
124,330	41,180	1	23,981
96,621	3,399	1	1
6,619	0	1	1
54,438	782	1	1
64,495	3,834	1	1
64,411	0	1	1
40,534	3,237	1	1
13,548	3,928	1	1
3,135	0	1	1
45,258	12,313	1	1
69,201	9,608	1	1
165,983	21,568	1	27,735
14,521	1,305	1	1,925
12,221	3,191	1	1
72,274	17,492	1	1
552,350	392	1,518	1
67,073	16,849	1	1
866,492	636	2,465	1
409,659	136,430	3,170	40,983
164,055	24,488	1	1
366,048	104,995	1	1
159,385	17,302	1	1
399,809	138,512	1	40,076
144,039	26,253	1,913	6,662
121,695	0	1	1
30,961	3,715	1	1
35,220	0	1	1

1,126,006	259,058	1	25,594
729,211	171	1	1
12,440	215	1	1
13,616	4,201	1	5,564
17,709	0	1	1
1,012,310	227,697	1	26,577
652,030	24,162	1	15,717
718,910	0	1	1
45,941	0	1	1
612,464	143,854	1	16,021
403,391	3,196	1	1
8,023	0	1	1
14,339	0	1	1
97,840	0	1	1
381,569	37,655	1,392	26,270
134,545	4,109	1	1
645,452	0	1	1
188,430	51,666	1	1
161,665	7,463	1	1
47,149	11,994	1	1
143,301	6,405	1	1
37,762	9,220	1	1
87,463	11,851	1	1
163,407	11,979	1	1
230,732	68,502	707	1
59,296	785	1	1
60,762	856	1,348	1
208,748	17,740	1	63,490
63,355	16,837	1	1
199,039	12,124	1	1
91,298	0	1	1
182,716	0	1	1
3,808	167	1	1

4,946	0	1	1
154,210	3,468	1	1
11,719	0	1	1
313,494	0	1	1
647,041	269	1	1
16,638	0	1	1
145,973	8,513	1	1
150,409	8,728	1	1
61,717	8,631	1	1
167,096	86,507	1	1
403,958	5,283	1	1
8,311	0	1	1
13,866	0	1	1
21,480	1,138	1	1
240,450	16,987	1	1
215,718	21,676	1	14,736
62,145	12,912	1	1
31,631	10,478	1	1
42,651	1,604	1	1
48,352	178	1	1
18,332	3,781	1	1
15,599	1,599	1	1
309,062	7,064	1	1
45,415	7,023	1	1
387,683	37,757	1	1
796,237	107	1	1
48,010	4,707	8,843	1
851,160	59,311	1	7,531
851,911	58,187	1	10,002
561,519	166,215	1	38,278
563,987	166,811	1	39,198

850,628	39,693	1	10,888
852,500	39,903	1	10,730
42,511	1,011	1	1
11,972	277	1	1
15,285	0	1	1
47,941	10,701	1	1
72,315	12,392	1	8,572
85,082	1,571	1	1
100,057	11,247	1	1
17,240	2,288	1	1
13,958	1,923	1	1
74,475	1,204	1	1
77,394	0	1	1
12,153	2,163	1	1
128,057	18,291	1	1
14,003	0	1	1
84,348	0	1	1
117,266	0	1	1
316,434	38,796	1	27,345
337,768	59,331	1	1
223,238	0	1	1
182,038	68,606	1	1
3,079	0	1	1
174,319	40,608	1	26,880
898,959	250,764	1	135,950
906,401	165,192	1	23,040
666,805	5,319	1	1
20,551	0	1	1
10,178	0	1	1
73,064	1,883	1	1
105,673	18,806	1	6,782
105,454	20,677	1	1
193,654	0	1	1

114,939	5,010	1	1
12,184	0	1	1
595,047	107,059	1	11,638
248,552	15,270	1	6,781
126,162	36	1	1
167,992	0	1	1
8,678	0	1	1
11,597	1,967	1	1
21,133	8,607	1	11,989
83,439	41,233	1	11,989
83,439	3,950	1	1
40,076	2,474	1	1
101,087	9,527	1	1
5,088,757	254,797	5,265	212,024
5,085,523	75,072	5,006	1
263,888	97,655	1	195,156
533,789	1,556	1	1
137,869	4,237	1	1
25,041	0	1	1
193,729	5,806	1	1
17,472	1,092	1	1
174,226	0	1	1
385,853	29,752	1	1
184,906	419,014	1	150,264
775,662	13,336	1	1
301,224	72,250	686	27,389
359,665	28,064	1,348	1
322,254	423,149	1	136,804
806,648	12,175	381	33,580
337,753	0	1	1
28,888	0	1	1

87,445	17,639	1	1
158,777	0	1	1
211,473	0	1	1
193,340	0	1	1
206,259	53,217	1	5,440
123,766	1,767	1	1
43,179	1,264	1	1
56,773	14,763	1	1
17,773	6,842	2,895	1
18,554	0	1	1
32,344	0	1	1
108,218	0	1	1
6,394	68	1	1
15,949	0	1	1
104,627	0	1	1
108,315	1,038	1	1
18,810	0	1	1
65,861	18,455	1	1
25,150	8,029	1	1
575,380	2,917	2,034	1
292,601	0	1	1
635,637	0	1	1
553,155	189,350	1	113,355
369,249	2,446	1	1
23,285	0	1	1
135,321	8,396	1	1
4,384	0	1	1
761,874	1,355	1	1
942,983	0	1	1
651,548	9,213	1	1
530,293	14,622	1	1

462,538	15,577	1	5,284
5,977	2,131	1	1
136,324	8,217	1	1
17,082	1,912	1	1
298,168	2,196	1	1
13,404	0	1	1
12,951	0	1	1
65,302	0	1	1
87,209	14,323	1	1
136,935	21,789	1,771	14,511
244,890	28,051	1	1
188,611	1,213	1	1
1	0	1	1
57,315	14,359	1	1
7,922	249	1	1
38,985	12,167	1	1
6,654	0	1	1
22,887	2,621	1	1
27,780	0	1	1
6,654	0	1	1
101,128	0	1	1
6,761	0	1	1
43,315	4,002	1	1
62,438	5,200	1	1
26,366	234	1	1
4,233	0	1	1
54,652	303	1	1
28,090	7,369	1	1
45,480	4,084	1	1
41,231	1,208	771	1
42,195	11,365	1	1
4,476	819	3,172	1
7,188	0	1	1

10,305	0	1	1
17,972	84	1	1
9,164	0	1	1
34,460	1,964	1	1
643,227	4,445	1	1
7,551	0	1	1
13,816	0	1	1
256,735	2,573	1	1
15,998	0	1	1
9,769	595	1	1
312,139	14,030	2,501	3,017
148,370	16,159	2,028	2,982
153,245	15,471	1,688	1,007
39,120	14,043	1	6,670
75,502	121,719	1	51,676
236,726	6,719	1	1
74,999	121,931	1	51,676
236,206	161	1	1
33,483	0	1	1
150,983	5,184	1	1
26,539	0	1	1
69,362	5,885	1	1
34,066	0	1	1
117,333	0	1	1
952,724	394	1	1
2,633	162	1	1
30,135	0	1	1
66,133	34,638	1	1
59,962	335	1	1
272,633	23,334	1	1
39,344	0	1	1
185,284	2,155	1	1
78,960	0	1	1
16,932	0	1	1
165,389	0	1	1

4,470	0	1	1
5,225	38	1	1
156,004	171,980	1	38,950
2,199,085	146,153	1	67,086
248,999	0	1	1
1,978,700	150,112	1	59,154
1,637,699	4,960	1	1
99,883	1,740	1	1
74,197	0	1	1
29,507	7,947	1	1
12,359	0	1	1
861,638	4,971	1	1
337,091	5,237	5,017	5,786
3,394,342	186,351	1	250,181
716,838	1,777	1,884	1
88,068	5,855	1	1
35,797	2,677	1	1
161,412	1,350	1	1
51,255	1,173	1	1
9,823	0	1	1
111,228	11,691	1	1
151,615	0	1	1
56,160	930	1	1
374,109	1,262	1	1
303,206	64,942	1	34,648
311,550	66,527	1	33,687
103,675	0	1	1
27,606	89	1	1

611,855	1,614	1,896	1
6,222	0	1	1
29,927	2,513	1	1
61,419	0	1	1
13,718	0	1	1
69,084	0	1	1
102,319	8,850	1	1
63,026	15,109	1	1
9,130	0	1	1
65,449	0	1	1
125,107	24,977	1,353	1
74,302	31,585	1	1
73,992	31,985	1	1
89,657	10,517	1	1
57,025	1,631	1,721	1
12,130	0	1	1
6,196	0	1	1
15,065	8,125	1	1
30,739	203	1	1
33,147	181	1	1
1	13,674	52,960	1
223,868	13,802	1	1
54,800	2,092	1	1
5,326	901	1	1
42,308	620	1	1
21,333	1,830	1	1
2,641,180	111,001	733	1
2,654,240	97,638	1	43,732
2,651,584	90,802	728	43,184
347,189	23,299	3,328	1
56,934	63,395	1	43,066
131,557	0	1	1
14,076	0	1	1

25,315	0	1	1
7,319	0	1	1
24,411	190	1	1
121,041	3,631	1	1
570,399	7,599	1	1
13,392	7,525	1	1
29,866	0	1	1
14,612	0	1	1
178,010	12,119	1,862	7,169
171,205	17,601	2,721	8,081
106,778	1,440	1	1
14,464	2,973	1	1
534,624	100,425	1	41,844
534,630	100,639	1	42,119
200,027	0	1	1
510,348	39,805	1	23,712
1,056,800	44,201	1	14,551
97,318	47,989	1	24,127
112,110	773	1	1
39,457	7,362	1	1
6,854	884	1	1
27,569	0	1	1
66,448	884	1	1
153,352	2,607	1	1
340,626	4,166	1	1
63,758	1,201	1	1
37,935	984	1,193	1
164,939	34	1	1
7,450	991	1	1
320,344	61,280	1	37,691
117,674	0	1	1
80,246	99	1	1

6,210	0	1	1
70,949	12,725	1	1
75,843	10,574	1	13,766
50,478	0	1	1
335,944	6,611	1	1
8,589	0	1	1
581,164	3,242	3,553	1
34,912	1,560	6,042	1
40,371	17,461	1	6,903
61,194	14,536	1	7,015
24,749	949	3,676	1
24,104	0	1	1
27,581	119	1	1
22,725	0	1	1
62,135	2,278	1	1
5,446	0	1	1
133,257	25,346	1	5,964
326,494	3,758	1	1
331,728	20,506	1	11,299
40,784	398	1	1
5,557	209	1	1
28,068	6,647	1	1
39,579	4,535	5,480	1
13,571	0	1	1
89,916	0	1	1
20,805	5,389	1	1
16,245	6,081	2,733	1
21,054	6,076	1	1
17,920	30,017	1	12,740
55,429	0	1	1
55,573	6,776	1	1
51,679	205	795	1
81,041	14,675	2,717	1
35,110	2,809	1	1
74,299	0	1	1
501,311	15,484	2,036	1
152,690	0	1	1
75,388	17,146	1	1
102,103	24,393	1	1

45,517	169	1	1
5,262	0	1	1
10,254	1,313	1	1
45,428	724	2,737	1
7,997	0	1	1
12,414	0	1	1
5,989	0	1	1
120,746	411	1	1
27,691	3,501	1	1
54,353	3,151	1	1
26,101	0	1	1
122,326	20,531	1	11,903
63,534	5,321	1	1
321,070	2,170	1	1
525,634	2,190	1	1
60,363	1,507	1	1
74,697	1,305	1	1
63,942	2,667	1	1
73,480	2,664	1	1
73,944	1,389	1	1
102,537	4,207	1	1
5,858	0	1	1
58,200	11,520	1	1
146,126	18,691	1	8,987
50,541	357	1	1
11,545	4,909	1	1
10,291	4,909	1	1
232,473	13,070	2,264	1
37,980	0	1	1
17,000	5,551	1	1
22,471	4,183	1	1
1,313,254	222,277	529	94,574
1,314,182	222,631	548	94,701
465,439	5,581	1	1
174,033	16,205	1	4,437

127,559	5,087	1	1
354,120	3,005	1	1
645	573	1	1
9,458	10,515	1	1
67,950	10,289	1	27,130
33,769	0	1	1
337,760	0	1	1
64,715	2,255	1	1
60,394	1,031	1	1
91,486	5,908	1	1
58,084	9,816	1	1
91,432	0	1	1
41,295	9,818	1	1
98,890	5,630	1	1
6,229	0	1	1
7,918	25,236	1	1
22,235	898	1	1
60,679	287	1	1
53,816	3,466	1	1
71,403	0	1	1
242,563	55,383	1	6,655
149,324	2,539	1	1
38,047	0	1	1
41,274	1,767	6,844	1
25,774	2,290	1	1
13,237	0	1	1
159,478	4,279	1	1
34,496	7,163	1	1
43,034	8,923	1	1
31,127	396	1	1
136,970	32,652	1	1
15,399	4,978	1	1
24,954	6,824	1	1
27,928	5,048	1	1

22,023	0	1	1
456,936	3,250	1	1
11,096	0	1	1
16,829	0	1	1
185,517	0	1	1
12,122	0	1	1
35,015	0	1	1
211,066	12,366	1	11,843
185,978	12,565	1	3,765
22,334	206	1	1
42,579	2,395	1	1
48,869	187	1	1
12,290	12,187	1	11,363
23,090	766	1	1
4,295	0	1	1
108,113	21,218	5,423	15,088
334,076	32,718	9,883	1
232,531	1,436	828	1
63,656	5,761	1	1
16,585	6,745	1	1
6,583	0	1	1
23,661	26	1	1
8,865	0	1	1
10,327	0	1	1
17,834	5,870	1	1
186,471	2,488	1	5,068
79,997	7,399	1	1
42,326	0	1	1
35,308	10,687	1	1
11,048	917	1	1
38,062	237	1	1
1,156,037	25,153	1	1
276,848	194,362	1	88,373
1,156,666	23,638	2,085	1

70,739	1,956	1	1
37,357	2,538	1	1
39,234	477	1	1
32,313	0	1	1
44,372	2,364	2,995	1
189,244	5,081	1	1
34,821	14,558	1	30,119
153,215	1,488	1	1
231,404	6,913	1	2,820
77,145	0	1	1
109,434	530	1	1
322,933	12,893	1,394	1
35,654	2,204	1	1
17,760	1,896	1	1
18,142	846	1	1
416,592	17,442	1	8,843
70,774	0	1	1
29,630	0	1	1
125,649	7,192	1	1
11,726	303	1	1
6,131	0	1	1
9,036	0	1	1
11,153	1,461	1	1
28,020	3,583	1	1
7,897	0	1	1
6,254	15,575	1	1
101,724	7,238	1	5,863
88,967	8,670	1	1
35,028	7,720	1	1
85,320	24,309	1	1
12,907	751	1	1
26,316	2,212	1	1
639,395	1,475	1	1
35,411	114	1	1

6,050	3,267	1	1
104,159	0	1	1
87,199	6,325	1	1
10,786	2,328	1	1
211,406	7,291	1	7,541
247,390	5,976	1	1
17,916	0	1	1
61,145	0	1	1
17,772	6,050	1	1
114,264	0	1	1
45,087	34,766	1	35,341
74,699	2,861	1	1
33,254	0	1	1
31,760	334	1	1
136,819	10,304	1	1
9,741	0	1	1
244,789	2,795	1	1
4,910	0	1	1
30,593	0	1	1
8,798	0	1	1
5,308	0	1	1
6,599	0	1	1
79,911	2,192	1	2,154
145,989	15,461	1	1
15,619	3,225	1	1
15,396	0	1	1
29,191	0	1	1
82,129	3,166	1	1
32,107	0	1	1
7,851	0	1	1
3,887	0	1	1
17,663	25,225	1	9,577
168,292	16,430	50,371	8,326
153,926	12,442	1	4,223
188,928	22,621	13,778	996
171,726	21,084	1	1
30,666	5,301	2,009	1

2,641	3,564	2,009	1
33,754	1,264	1	1
203,485	3,109	1	1
64,389	43,150	1	27,272
98,918	0	1	1
995,250	28,871	1	16,517
61,559	1,220	1	1
90,375	12,822	1	19,232
117,228	16,489	1	1
98,576	18,599	1	46,718
117,248	11,190	1	1
108,822	20,264	1	14,925
30,848	0	1	1
143,102	8,615	1,530	10,305
5,970	0	1	1
216,761	19,443	1	9,676
47,042	105	1	1
229,674	9,757	1	1
35,416	2,000	1	1
233,207	1,556	1	1
38,927	14,379	1	13,695
64,058	2,892	1	1
123,105	5,988	1	1
102,400	6,424	1	1
42,216	4,067	1	1
1	3,335	1	1
37,137	5,765	1	1
64,988	5,465	1	1
22,287	0	1	1
3,731	0	1	1
36,758	649	1	1
112,038	8,865	1	1
14,497	0	1	1

16,860	0	1	1
33,230	3,226	1	1
70,387	1,312	1	1
202,507	1,465	1	1
38,316	161	1	1
33,767	484	1	1
736,183	366	1	1
35,780	0	1	1
120,572	1,911	1	1
275,066	4,117	1	1
17,755	8,707	1	12,005
67,401	26,912	1,177	14,212
186,836	4,305	1	1
110,164	1,049	2,945	1
26,900	0	1	1
33,017	7,635	1	1,624
17,099	92	1	1
26,175	5,448	1	1
42,001	867	1	1
17,233	3,838	1	1
14,255	0	1	1
13,689	0	1	1
109,123	6,277	804	1
181,002	6,264	1	1
12,458	0	1	1
9,945	0	1	1
11,365	5,703	1	1
23,344	0	1	1
42,723	9,972	1	1
4,342	257	998	1
9,606	0	1	1
130,792	9,167	1	2,551
72,835	2,197	1	1
273,760	5,826	2,260	1
58,982	0	1	1
25,360	0	1	1
11,087	0	1	1
13,811	0	1	1

11,161	0	1	1
18,032	6,486	1	1
7,532	0	1	1
275,428	20,880	1,669	1
13,557	0	1	1
83,705	13,505	1	1
31,923	3,710	1	1
8,738	386	1	1
164,100	7,661	1	1
35,382	513	1	1
200,704	16,031	1	13,721
86,206	492	1,906	1
10,431	0	1	1
23,575	0	1	1
4,571	0	1	1
47,604	9,092	1	1
22,929	95	1	1
36,002	106	1	1
41,048	11,391	1	1
51,933	9,761	1	1
23,790	0	1	1
314	0	1	1
92,894	12,100	1	1
389,500	18,936	1	10,698
90,425	2,757	1	5,684
13,547	2,944	1	1
13,688	2,958	1	1
6,624	3,938	1	1
87,483	668	1	1
25,691	7,329	1	1
112,307	6,527	1	1
5,132	0	1	1
29,230	7,471	1	1
37,770	6,773	1	1
75,601	8,058	1	1

141,977	6,257	1	1
12,858	0	1	1
11,044	1,161	1	1
1,493,766	0	1	1
1,336,686	0	1	1
15,177	4,361	4,215	1
16,046	0	1	1
13,284	202	1	1
15,390	0	1	1
159,026	9,912	1	8,025
274,375	1,336	1	1
86,010	301	1,166	1
37,154	1,187	1	1
11,681	0	1	1
11,181	571	1	1
22,885	0	1	1
118,432	1,768	1	1
98,929	13,994	1	1
45,058	0	1	1
27,869	980	1	1
22,902	1,211	1	1
4,468	1,207	1	1
45,011	0	1	1
19,772	553	1	1
3,852	1,811	1	1
148,013	16,239	1	4,556
304,958	13,921	1,553	1
187,090	143	1	1
90,964	0	1	1
14,705	19,256	1	10,032
37,642	2,512	1	1
170,663	6,617	1	1
16,339	0	1	1
74,147	0	1	1
33,281	0	1	1
151,578	7,169	1	10,706
151,675	6,110	1	1

22,779	0	1	1
90,239	23,721	1	1
27,908	121	1	1
5,777	0	1	1
6,360	0	1	1
10,572	1,376	1	1
47,164	0	1	1
52,590	0	1	1
8,700	654	1	1
145,855	3,114	1	1
14,828	3,453	1	1
534,139	10,844	1	1
21,997	0	1	1
17,444	0	1	1
26,866	0	1	1
27,167	0	1	1
18,069	1,748	6,770	1
50,822	0	1	1
14,566	728	1	1
33,167	0	1	1
88,312	8,667	1	1
49,410	314	1	1
42,558	220	1	1
71,264	13,009	1	7,624
128,280	13,545	1	11,155
140,565	3,107	1	1
108,810	2,646	1	1
17,916	780	1	1
19,149	0	1	1
19,277	0	1	1
52,599	1,084	1	1
50,114	8,002	1	1
54,684	10,462	1	1
49,813	9,894	1	1
14,770	246	1	1
5,111	0	1	1
55,593	1,639	1	1

66,018	578	1	1
63,993	339	1	1
34,893	642	1	1
9,779	0	1	1
63,815	5,899	1	1
58,897	6,243	1	1
48,694	316	1	1
48,099	1,104	1	1
50,326	6,214	1	1
62,787	4,437	1	1
551,986	15,748	1	8,796
1,079,352	5,764	1	1
35,670	2,913	1	1
32,726	28,339	1	9,221
214,895	4,404	1	1
938,515	22,633	1	8,798
214,895	9,549	1	9,313
28,498	398	1	1
9,651	1,258	1	1
4,190	0	1	1
89,239	4,206	1	9,099
120,227	5,592	1	4,415
177,953	10,099	1	1
112,293	0	1	1
112,818	64	1	1
21,605	0	1	1
31,843	0	1	1
23,470	0	1	1
29,781	510	1	1
88,396	2,583	1	1
127,954	16,036	1	1
8,620	0	1	1
5,479	0	1	1
34,946	547	2,120	1
51,105	1,225	1	1
13,849	0	1	1
11,076	0	1	1
6,710	0	1	1

6,603	0	1	1
3,968	679	1	1
3,844	493	1	1
154,449	12,706	1	5,742
20,354	154	1	1
65,830	0	1	1
50,088	0	1	1
898,310	7,968	1	13,914
152,950	7,836	1	17,250
107,167	7,858	1	1
8,506	0	1	1
5,752	454	1	1
73,454	7,950	1,149	8,095
76,324	5,492	2,071	9,163
188,892	12,317	1	8,090
227,855	1,370	1	1
45,468	1,907	1	1
199,522	4,629	1	1
195,620	1,229	1	1
132,321	113	1	1
37,139	3,113	1	1
90,205	2,057	1	1
180,059	14,841	1	1
32,088	0	1	1
16,030	0	1	1
33,219	1,088	1	1
222,377	954	1	1
215,997	6,662	1	1
18,014	0	1	1
25,361	0	1	1
16,410	8,638	1	1
26,987	0	1	1
4,149	1,585	1	1
25,090	0	1	1
48,842	1,696	1	1
5,827	0	1	1
52,827	0	1	1
6,966	0	1	1

8,548	0	1	1
44,150	0	1	1
7,998	0	1	1
142,767	3,956	1	1
49,353	2,879	1	1
30,567	2,738	1	1
7,878	2,196	1	1
12,536	0	1	1
29,647	0	1	1
74,743	4,948	1	6,604
112,795	3,100	1	1
191,935	10,175	1	1
27,829	2,212	1	1
75,505	4,259	1	6,566
119,008	9,260	1	1
37,278	1,133	1	1
62,187	296	1	1
168,879	0	1	1
61,652	0	1	1
70,191	9,626	1	8,163
8,992	353	1	1
7,760	520	1	1
68,078	4,867	1	1
92,856	5,670	1	5,693
21,689	1,841	1	3,404
17,593	1,100	1	1
5,714	3,854	1	1
69,686	0	1	1
21,877	4,156	1	1
43,280	0	1	1
191,986	791	1	1
37,251	0	1	1
10,303	4,688	1	1
114,662	12,879	1	10,668
26,542	6,963	1	1
147,708	6,595	1	1
49,733	0	1	1
82,443	0	1	1
190,644	4,110	1	1
226,588	1,049	1	1
70,955	7,164	1	1

139,856	0	1	1
59,714	34,805	1	17,713
81,160	2,704	1	1
176,237	8,102	1	1
13,059	0	1	1
32,561	4,888	1	1
28,489	4,103	1	1
64,854	0	1	1
33,963	9,193	1	1
40,413	9,233	1	1
40,413	1,556	1	1
11,387	0	1	1
12,859	2,578	1	1
10,908	0	1	1
500,227	137,307	1	72,791
500,227	137,186	1	66,371
147,445	1,048	1	1
10,423	0	1	1
5,552	453	1	1
490,737	34,262	1	1
18,061	14,179	1	12,532
27,745	0	1	1
227,366	0	1	1
23,259	11,296	1	10,817
26,414	1,623	1	1
7,118	895	1	1
133,731	12,533	1	1
304,812	65	1	1
15,062	1,786	1	1
34,354	0	1	1
18,282	0	1	1
45,476	0	1	1
86,482	7,355	1	10,874
77,440	8,606	1	9,826
5,978	0	1	1
24,517	0	1	1
30,318	1,974	1	1
17,793	258	1	1
136,910	3,624	1	1
19,934	0	1	1
9,447	4,809	1	1
25,891	7,553	1	1
112,137	17,567	1	1
24,424	1,495	1	1

56,749	3,431	1	1
102,251	271	1	1
474,843	3,182	1	1
27,074	109	1	1
9,844	0	1	1
14,422	1,395	1	1
81,827	0	1	1
71,570	6,993	1	1
67,914	4,261	1	1
49,873	3,829	1	1
38,446	0	1	1
16,556	4,286	1	1
25,455	5,918	1	1
11,301	0	1	1
22,913	9,952	1	1
24,953	8,012	1	1
47,451	85	1	1
39,197	1,560	1	1
109,851	2,283	1	1
13,741	0	1	1
12,310	0	1	1
12,713	0	1	1
120,877	7,160	1	1
120,471	7,680	1	1
39,354	0	1	1
114,292	642	1	1
50,800	3,737	1	1
60,806	3,170	1	1
83,239	4,762	1	1
105,437	1,632	1	1
74,063	1,565	1	1
20,443	0	1	1
1	1,597	1	1
36,916	839	1	1
45,935	2,964	1	1
25,869	3,482	1	1
74,751	5,285	1	5,656
13,171	1,736	1	1
22,688	3,455	1	1
60,865	118,129	1	41,842

244,625	115,011	1	46,878
227,936	90	1	1
626,496	85,887	1	55,809
626,496	11,798	1	1
13,483	0	1	1
83,360	2,602	1	1
49,269	2,430	1	2,990
11,428	0	1	1
5,291	0	1	1
14,675	0	1	1
44,297	35	1	1
33,345	0	1	1
27,123	0	1	1
1,001,855	18,695	1	32,222
1,001,972	18,698	1	31,904
52,436	6,071	1	1
57,007	645	1	1
46,807	3,741	1	6,223
161,607	11,884	1	1
71,520	0	1	1
4,812	695	1	1
97,541	3,605	1	1
141,925	459	1	1
149,270	1,868	1	1
9,829	280	1	1
198,554	6,439	1	1
11,699	0	1	1
23,962	0	1	1
6,725	0	1	1
22,289	0	1	1
46,649	12,952	1	3,955
85,022	4,474	1	1
80,098	39,012	1	25,265
94,008	30,705	1	19,174
77,944	13,306	1	11,836
38,664	7,212	1	1
86,859	5,392	1	1
11,086	323	1	1

99,322	5,714	1	1
62,240	5,480	1	1
88,346	5,752	1	1
42,970	0	1	1
13,253	289	1	1
52,274	1,738	1	1
28,380	12,696	1	1
28,380	0	1	1
20,576	0	1	1
1,907	0	1	1
29,295	230	1	1
43,319	0	1	1
73,284	4,397	1	6,594
7,720	0	1	1
4,924	123	1	1
4,166	0	1	1
65,305	45,379	1	16,520
186,000	15,676	1	19,381
115,083	33	1	1
25,615	0	1	1
24,813	0	1	1
12,021	591	1	1
16,695	594	1	1
52,215	2,926	1	5,393
9,470	0	1	1
8,622	0	1	1
177,655	5,231	1	1
10,689	298	1	1
88,955	2,495	1	1
200,216	1,335	1	1
84,551	0	1	1
72,215	2,604	1	1
56,341	3,012	1	1
13,616	0	1	1
40,880	0	1	1
185,347	4,581	1	1
4,267	459	1	1
264,741	4,756	1	1
41,615	80	1	1
28,298	11,191	1	9,347
53,651	673	1	1

7,414	1,379	1	1
38,250	0	1	1
53,512	19,276	1	15,390
50,075	10,141	1	1
26,347	10,140	1	1
27,134	6,406	1	1
12,039	410	1	1
88,595	3,016	1	1
22,378	8,069	1	7,444
27,060	7,721	1	5,772
25,913	1,066	1	1
44,976	5,098	1	5,036
50,796	5,789	1	1
93,224	6,894	1	1
47,421	548	1	1
69,451	6,253	1	1
11,858	1,123	1	1
18,998	1,250	1	1
25,085	2,939	1	1
7,582	137	1	1
17,460	0	1	1
11,922	2,835	1	1
17,997	0	1	1
5,783	456	1	1
42,512	6,418	1	1
9,482	0	1	1
52,259	0	1	1
83,568	0	1	1
186,362	1,957	1	1
21,840	1,057	1	1
89,337	1,919	1	1
37,381	682	1	1
83,678	0	1	1
88,890	0	1	1
280,624	7,904	1	1
16,506	2,640	1	1
126,572	88	1	1
32,418	176	1	1
210,374	17,030	1	1
52,304	17,635	1	8,510

45,733	689	1	1
34,105	41	1	1
12,736	17	1	1
27,383	0	1	1
13,803	0	1	1
47,962	211	1	1
345,521	23,101	1	11,538
435,637	26,406	1	16,108
71,237	181	1	1
413,961	6,052	1	1
140,335	3,708	1	3,085
14,848	920	1	1
9,265	1,033	1	1
11,207	1,098	1	1
5,204	0	1	1
35,963	0	1	1
4,275	170	1	1
87,126	9,365	1	1
28,707	1,524	1	1
6,771	5,685	1	1
17,798	3,087	1	1
70,318	4,505	1	1
18,224	4,814	1	1
2,105	801	1	1
13,476	0	1	1
67,535	2,277	1	1
6,420	0	1	1
35,080	715	1	1
7,050	4,825	1	1
21,095	0	1	1
60,903	0	1	1
827,362	18,428	1	41,617
58,159	0	1	1
2,488	0	1	1
33,260	397	1	1
83,968	185	1	1
118,678	318	1	1
12,408	2,396	1	1
144,956	5,502	1	1
14,348	863	1	1

100,016	472	1	1
27,399	321	1	1
72,033	6,393	1	1
95,941	8,444	1	1
2,783,326	7,788	1	1
15,220	2,578	1	1
25,265	22,911	1	16,622
47,222	10,296	1	1
8,475	582	1	1
63	0	1	1
46,770	459	1	1
77,168	12,396	1	8,405
96,766	0	1	1
21,841	41,353	1	16,586
79,929	52,127	1	25,129
101,085	196	1	1
30,921	0	1	1
9,829	344	1	1
48,751	0	1	1
31,462	10,068	1	1
49,368	0	1	1
17,683	0	1	1
4,748	113	1	1
4,153	604	1	1
187,301	7,457	1	8,057
22,029	0	1	1
32,329	0	1	1
20,234	134	1	1
96,377	3,102	1	1
4,580	30	1	1
49,374	2,251	1	1
83,994	1,004	1	1
10,248	0	1	1
65,115	0	1	1
2,707	0	1	1
460,708	1,342	1	1
461,001	1,982	1	1
21,266	4,150	1	1

53,705	0	1	1
9,418	45	1	1
5,421	0	1	1
14,151	0	1	1
21,324	2,131	1	1
80,147	0	1	1
48,386	1,218	1	1
3,464	593	1	1
25,603	0	1	1
22,162	0	1	1
30,847	1,914	1	1
19,557	249	1	1
183,427	5,875	1	1
6,388	0	1	1
107,995	0	1	1
125,560	1,009	1	1
27,194	0	1	1
27,601	2,337	1	1
60,195	172	1	1
210,911	6,990	1	10,277
288,779	9,625	1	15,206
36,327	271	1	1
2,885	0	1	1
36,500	23,763	1	12,269
57,822	5,361	1	1
12,815	6,973	1	1
45,463	750	1	1
30,192	0	1	1
6,450	318	1	1
5,856	0	1	1
21,991	0	1	1
14,107	648	1	1
9,927	1,548	1	1
41,858	328	1	1
6,218	1,667	1	1
2,657	1,051	1	1
84,299	0	1	1
25,067	216	1	1
13,579	60	1	1
63,620	0	1	1
48,199	0	1	1
292,524	7,213	1	1
6,403	0	1	1

89,565	5,000	1	1
13,885	4,021	1	1
12,149	8,954	1	1
44,640	0	1	1
31,903	197	1	1
14,854	6,273	1	1
51,472	6,022	1	1
71,241	0	1	1
2,627	422	1	1
80,661	582	1	1
7,275	4,808	1	1
61,415	0	1	1
6,966	345	1	1
19,701	0	1	1
27,052	1,133	1	1
24,712	0	1	1
44,720	2,958	1	1
74,508	1,238	1	1
13,544	0	1	1
4,361	288	1	1
189,329	12,085	1	1
37,781	2,670	1	1
189,329	12,985	1	1
13,269	0	1	1
9,392	0	1	1
27,464	0	1	1
8,147	72	1	1
51,211	7,289	1	1
39,806	155	1	1
4,011	519	1	1
78,521	0	1	1
6,133	856	1	1
4,203	0	1	1
68,979	1,064	1	1
18,017	0	1	1
39,531	974	1	1
18,458	0	1	1
94,198	2,516	1	1
132,604	5,617	1	6,407
15,245	0	1	1
1	163	1	1
97,568	4,166	1	1
174,827	9,507	1	22,240
29,767	0	1	1

31,929	51,012	1	13,334
199,697	0	1	1
71,143	0	1	1
54,816	5,971	1	9,397
13,274	0	1	1
13,010	0	1	1
24,510	0	1	1
24,616	0	1	1
48,234	2,453	1	1
28,936	0	1	1
8,455	0	1	1
28,953	0	1	1
201,638	7,378	1	12,086
41,733	6,491	1	12,561
16,664	0	1	1
151,963	0	1	1
274,957	7,475	1	1
126,702	29	1	1
20,390	0	1	1
85,799	5,299	1	1
25,267	0	1	1
30,582	304	1	1
80,006	2,632	1	1
6,849	0	1	1
202,182	4,974	1	2,582
208,645	6,106	1	6,996
75,511	0	1	1
117,226	0	1	1
74,518	0	1	1
49,258	3,986	1	7,797
27,675	7,957	1	1
30,170	7,010	1	1
26,488	388	1	1
103,175	315	1	1
49,909	635	1	1
9,413	0	1	1
49,570	2,642	1	1
2,005	1,694	1	1
6,361	0	1	1
61,891	890	1	1

18,147	0	1	1
4,344	0	1	1
123,091	5,118	1	1
99,303	4,101	1	1
107,257	4,999	1	6,440
133,295	185	1	1
128,603	3,709	1	1
31,360	921	1	1
7,780	90	1	1
17,059	20	1	1
107,783	8,103	1	1
20,984	77	1	1
80,795	2,528	1	1
7,763	320	1	1
57,111	5,183	1	1
93,894	8,212	1	12,255
17,631	0	1	1
151,212	2,511	1	6,627
178,637	7,851	1	11,994
58,142	0	1	1
3,434	24	1	1
87,870	6,126	1	1
82,879	3,710	1	1
157,963	7,035	1	1
14,847	673	1	1
8,596	217	1	1
34,776	5,294	1	1
183,283	6,540	1	1
31,345	7,334	1	12,510
43,668	726	1	1
14,705	0	1	1
122,822	0	1	1
28,766	4,994	1	1
74,784	5,778	1	1
59,910	5,812	1	1
28,416	0	1	1
24,302	0	1	1
53,698	1,540	1	1
83,254	2,463	1	1
37,959	170	1	1
80,971	4,599	1	1
24,193	2,648	1	1

21,785	0	1	1
8,101	1,508	1	1
98,529	0	1	1
21,958	775	1	1
27,395	0	1	1
14,933	0	1	1
3,405	14	1	1
12,717	2,111	1	1
107,823	3,030	1	1
46,226	2,801	1	1
37,213	351	1	1
123,736	7,973	1	17,953
52,752	0	1	1
10,220	0	1	1
7,681	1,232	1	1
57,493	6,648	1	1
14,826	0	1	1
138,713	3,676	1	1
139,168	8,904	1	1
17,898	6,615	1	12,149
70,195	7,068	1	13,547
20,339	9,920	1	1
499,820	1,196	1	1
440,754	9,908	1	1
18,568	14,369	1	8,126
27,592	3,196	1	1
50,185	0	1	1
76,872	2,756	1	1
4,379	0	1	1
18,368	0	1	1
6,792	2,022	1	1
36,564	16,415	1	29,849
49,854	2,136	1	1
110,611	8,239	1	1
78,166	3,390	1	1
6,519	30,052	1	1
125,794	2,860	1	1
13,341	0	1	1
37,835	5,035	1	1

2,851	93	1	1
102,909	5,475	1	1
49,585	3,353	1	1
15,669	4,329	1	1
19,665	37	1	1
13,039	0	1	1
6,298	352	1	1
15,803	0	1	1
88,648	1,154	1	1
562,650	12,708	1	1
76,768	2,071	1	1
70,577	2,225	1	1
16,752	1,710	1	1
8,139	467	1	1
14,771	0	1	1
6,397	98	1	1
8,593	6,117	1	1
36,393	4,181	1	1
4,648	0	1	1
4,302	0	1	1
6,264	0	1	1
5,929	0	1	1
37,614	716	1	1
32,938	0	1	1
10,637	117	1	1
9,001	2,589	1	1
7,574	0	1	1
8,398	2,296	1	1
153,690	4,208	1	1
41,121	2,845	1	1
30,061	0	1	1
12,845	852	1	1
17,024	598	1	1
9,428	2,673	1	1
12,569	0	1	1
7,450	0	1	1
5,990	0	1	1
10,807	112	1	1
85,152	2,060	1	1
57,394	2,222	1	1
4,000	145	1	1

8,936	190	1	1
508,345	10,738	1	1
17,430	0	1	1
33,970	0	1	1
52,049	40,415	1	34,666
117,692	3,199	1	1
3,394	0	1	1
6,887	69	1	1
14,384	132	1	1
11,560	0	1	1
13,385	0	1	1
5,001	0	1	1
6,800	0	1	1
8,420	0	1	1
2,831	0	1	1
11,292	11,881	1	1
37,359	0	1	1
30,939	22,325	1	19,230
61,705	0	1	1
9,772	1,686	1	1
11,318	3,651	1	1
7,919	8,766	1	1
30,269	2,667	1	1
74,262	0	1	1
72,084	2,079	1	1
6,441	1,721	1	1
8,265	687	1	1
5,239	2,741	1	1
14,322	1,889	1	1
21,086	0	1	1
8,468	0	1	1
46,913	494	1	1
10,584	2,457	1	2,299
30,367	525	1	1
8,131	2,244	1	1
29,203	0	1	1
40,133	0	1	1
20,192	243	1	1
10,264	0	1	1
6,661	0	1	1
20,474	742	1	1
4,826	0	1	1

26,080	1,306	1	1
413,716	0	1	1
6,115	0	1	1
277,975	0	1	1
5,655	0	1	1
4,949	0	1	1
6,401	0	1	1
18,614	0	1	1
3,993	0	1	1
3,935	0	1	1
5,516	0	1	1
4,050	0	1	1
49,211	0	1	1
32,889	0	1	1
34,089	0	1	1
6,714	0	1	1
28,911	8,122	1	1
13,582	0	1	1
4,946	0	1	1
31,209	0	1	1
5,048	0	1	1
29,067	54,822	216,897	7,112
11,439	0	1	1
4,008	0	1	1
2,303	0	1	1
4,124	0	1	1
5,380	0	1	1
2,479	0	1	1
3,259	0	1	1
5,309	0	1	1
2,466	0	1	1
5,572	0	1	1
2,635	0	1	1
9,218	4,763	1	1
8,688	0	1	1
2,347	0	1	1
5,166	0	1	1
2,020	0	1	1
2,930	0	1	1
3,132	0	1	1
5,008	1,426	1	1
1,802	0	1	1
2,587	0	1	1
8,323	4,730	1	1

12,030	0	1	1
32,352	0	1	1
6,814	0	1	1
2,322	0	1	1
3,366	0	1	1
2,393	0	1	1
3,374	0	1	1
4,227	0	1	1
4,484	1,360	1	1
8,449	5,451	1	4,264
12,301	0	1	1
3,976	983	1	1
10,568	4,737	1	7,534
12,261	4,287	1	7,417
10,991	0	1	1
6,847	0	1	1

Minimum Detection Level is set at 3 x Standard Deviation of All Blanks

Solvent Blanks					
DB3	DB4	DB5	DB6	DB7	DB8
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	3,605	5,493
1	1	1	1	43,576	11,290
1	1	1	1	24,554	8,984
1	1	1	1	25,654	15,848
1	1	1	1	38,245	1
1	1	1	1	1	1
1,641,492	1,628,463	1,587,795	1,734,262	2,640,471	1,592,684
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
12,748	12,846	14,190	14,204	47,058	18,789

1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	18,355	1
1	1	1	1	1	1
1	1	1	1	1	1
65,193	65,584	62,228	65,144	96,208	74,525
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
9,930	8,480	8,693	8,909	9,958	9,563
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
206,627	178,248	153,597	210,977	557,476	456,638
1	1	1	1	1	1
1	1	1	1	1	1
1	1	2,739	4,010	1	2,969

12,011	1	1	27,777	134,433	41,640
1	1	1	1	1	1
1	2,052	1	1	5,638	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	10,644	6,814
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	5,862	1	9,732	66,798	14,859
10,069	1	1	13,896	89,503	17,250
1	1	1	1	1	1
69,082	65,635	63,126	78,394	493,865	97,715
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	16,201	1
1	1	1	1	1	1
74,616	79,918	70,216	71,334	94,607	84,059
29,869	29,320	34,511	37,550	180,941	53,448
17,849	1	1	17,650	143,544	28,564
1	1	1	1	1	1

1	1	1	1	1	1
1	1	1	1	1	1
15,280	17,953	16,230	21,254	164,187	35,040
160,389	151,613	136,937	190,261	1,552,251	382,076
564,400	584,314	480,687	677,319	4,152,675	1,010,153
95,770	96,151	78,015	111,221	811,065	164,102
1	1	1	1	62,475	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
5,955,422	1	1	1	1	1
1,071,229	4,361,074	1,294,181	1	2,280,353	2,311,841
17,775	18,497	16,828	19,567	17,149	21,690
1	21,317	4,259	35,027	1	5,031
1	1	1	1	1	1
1	5,677	4,764	3,424	1	1
1	1	1	1	1	1
1	6,905	4,425	2,969	1	4,566
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
4,039,633	1,838,281	2,643,038	9,704,502	4,466,449	4,429,759
1	1	1	1	1	1
4,041,557	1,838,281	2,643,038	4,156,688	4,169,525	4,429,759
35,680	52,079	24,907	10,675	87,849	94,519
1	1	1	1	1	1
1	6,822	12,313	10,306	8,956	16,906
15,137	9,417	1	1	1	1
1	1	1	1	1	1
1	27,285	24,430	26,926	1	55,987
1	1	1	1	1	1

37,058	45,472	40,571	38,239	45,689	44,541
1	1	34,550	39,147	58,424	32,848
1	1	1	1	1	1
3,569,734	3,708,821	3,349,211	3,592,200	4,316,668	4,301,482
1	1	1	2,661	1	1
44,972	48,271	42,311	35,277	4,023	8,407
7,704	4,820	3,839	1	5,498	2,576
24,371	7,173	24,127	22,466	34,491	32,725
1	1	1	1,372	1	14,587
1	1	7,093	1	1	7,740
35,557	11,264	9,487	21,881	6,358	8,177
9,752	28,347	3,616	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
7,853	9,807	9,184	10,184	10,844	10,032
1	1	1	1	1	1
26,805	25,906	26,544	27,977	29,407	31,187
1	1	1	1	1	1
6,801	1	1	5,314	1	1
8,391	9,271	1	5,314	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
92,244	1	148,278	156,276	179,378	114,198
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1,897	1	1	1
1	5,094	1,604	1	1	1
1	1	1	2,684	1	1

1	1	1	28,607	1	1
1	7,323	1	8,587	1	6,757
1	1	1	1	1	1
821,693	110,769	379,331	436,795	203,454	254,058
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
22,267	20,899	19,289	21,427	20,546	21,527
1	1	1	1	1	1
1	1	1	1	1	1
2,707	5,272	3,137	3,555	4,498	1
2,707	5,272	3,137	3,555	2,358	1
5,563	1	1	1	4,346	11,715
4,702	3,776	1,665	1	1	2,828
1	1	1	1	1	1
1	1	1	1	1	1
222,143	160,049	128,855	140,324	102,617	1
12,764	7,632	1	7,997	12,081	9,190
1,866	1	1	1	2,798	1
6,441	1	4,701	5,869	5,719	3,962
1	1	1	1	1	1
4,527	1	10,117	1	1	1
5,957	8,909	4,568	3,929	5,003	10,926
14,505	14,406	3,417	15,167	9,337	15,537
1	1	1	1	1	1
1	1	1	1	1	1
25,980	22,599	30,192	23,586	28,868	28,495
42,161	40,991	46,682	23,262	32,732	34,099
35,712	35,974	40,897	1	18,667	1

1	1	1	1	38,066	9,202
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	4,514	1	1,955	1	1
1	1	1	1	1	1
1	1	5,332	1	1	6,324
8,463	7,496	2,031	5,143	10,141	6,621
1	19,502	5,444	2,358	8,457	1
1	1	1	1,955	1	10,840
1	1	1	1	1	1
11,428	8,593	6,800	1	8,676	6,424
7,573	9,420	6,342	7,196	3,593	10,448
1	2,919	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
8,750	1	9,895	1	3,416	13,290
6,012	2,793	6,834	1	2,016	11,488
1,131	1,922	1	2,043	1	1
1	1	1	1	1	1
6,149	7,243	6,556	3,529	1	6,493
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
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4,916	7,349	8,693	8,042	9,101	7,964
1	1	1	1	1	1
58,317	13,908	22,671	36,524	23,995	59,823
14,104	1	1	1	1	1
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1	1	1	1	1	1
25,869	26,529	1	27,552	25,410	30,185
1	8,582	3,117	5,305	8,871	1
1	3,989	1	1	1	9,054
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
9,096	4,873	8,334	8,910	1	10,975
3,132	4,261	5,366	1	10,647	14,765
22,291	23,622	2,964	9,410	10,641	5,497
51,881	42,818	33,878	46,185	1	26,223
1	1	1	1	1	1
1	1	1,062	1	1	1
5,155	1	5,053	1	8,818	1
1	1	1	1	1	1
1	1	1	1	1	1
13,031	12,043	14,733	8,109	7,211	11,868
1	1	1	1	1	1
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1	1	1	1	1	1
7,884	9,181	5,233	6,580	9,688	3,627

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7,012	10,875	12,850	12,875	7,601	14,647
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1	1	1	1	1	8,363
1	6,345	2,435	1	1	2,055
1	1	1	1	1	1
1	1	1	1	1	1
14,103	14,623	15,747	17,390	64,804	24,138
14,103	14,843	15,747	17,390	64,804	24,138
106,768	100,293	95,366	112,652	162,119	148,870
1	1,158	1	1	1	1
8,728	18,690	26,340	10,764	18,440	16,256
1	5,180	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
15,495	20,517	28,285	16,312	1	23,267
1	1	1	1	1	1
18,008	11,893	1	1	1	1
1	1	1	1	1	1
11,864	8,523	9,634	1	6,649	1
11,864	8,523	9,634	1	6,649	1

9,269	15,038	25,995	15,483	17,022	16,104
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6,478	1	1	1	1	1
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1	1	1	1	1	1
1	1	1	1	1	1
9,314	12,321	4,472	1	1,989	10,271
14,432	14,592	11,318	11,081	16,808	19,963
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1	1	1	1	1	1
1	1	1	4,308	1	1
1	1	1	1	3,410	1
7,324	6,740	6,104	6,920	7,911	5,943
8,278	1	5,331	1	7,950	5,654
4,397	1	1	1	1	1
1	1	1	1	1	13,125
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1	1	1	1	1	1
14,200	9,575	1	9,870	9,713	1
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16,150	27,263	25,515	24,101	31,985	26,753
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1	1	5,236	7,377	10,542	1
4,061	4,364	4,338	3,723	3,902	4,197
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1	3,487	1	1	8,297	5,001
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1,098,093	1,280,530	1,378,158	1,184,459	1,653,074	1,626,747
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1,102,986	1,273,306	1,386,806	1,167,549	1,681,556	1,646,373
1	1	2,541	1	1	1
1	1	1	1	1	1
1	1	10,672	16,706	4,818	15,842
1	1	1	1	1	1
1	1	1	1	1	1
12,136	15,099	19,140	13,303	20,088	6,670
12,977	10,442	18,770	16,559	20,139	6,193
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7,644	8,128	6,507	8,592	10,279	8,145
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11,954	20,317	10,505	16,594	21,650	7,571
9,932	23,247	20,252	16,708	21,300	1
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1	1	1	1	1	1
1	1	1	1	1	1

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172,373	182,848	208,077	166,224	1	1
3,116	5,446	5,854	1	5,020	4,037
14,602	10,412	9,303	11,412	18,700	16,811
1	1	1	1	1	1
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1	1	1	1	1	1
11,716	5,011	11,591	9,814	13,912	12,594
1	1	7,040	1	1	1
1	1	1	1	1	1
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1	1	1	1	1	1
1	1	1	1	1	1
1	6,473	8,734	4,798	6,556	10,494
10,900	9,663	9,487	9,130	12,618	11,258
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1	1	1	1	4,960	1
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3,358	3,677	2,471	1	1	1
1	4,610	3,224	1	1	1
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1	1	1	1	1	1
1	3,808	7,558	8,739	10,949	5,710
1	1	1	1	1	1
8,784	9,931	8,892	6,874	11,950	11,744
7,032	5,544	8,892	11,030	10,537	12,137
10,534	9,931	8,892	6,874	11,297	12,736
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1	1	1	1	1	1
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1	4,093	1	1	1	8,697
1	4,084	1	1	8,303	8,760
1	1	1	1	1	1
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1	1	1	1	1	1
14,826	17,432	17,057	16,758	14,476	21,801
5,090	1	9,082	8,140	9,232	11,681
1	1	1	8,186	9,262	11,681
15,788	18,089	17,872	16,875	16,501	22,002
16,298	17,373	18,432	18,886	17,221	24,690
8,664	6,825	6,279	8,579	1	10,953
1	1	1	1	1	1
9,543	9,950	7,648	9,682	12,772	11,637
11,282	11,703	9,860	18,948	54,422	21,322
1	1	1	1	1	1
1	1	1	6,311	3,400	8,814
1	1	1	1	1	1
50,659	52,807	46,039	38,091	58,515	51,640
21,508	17,220	11,557	10,189	17,528	20,637
20,047	17,496	11,114	14,160	19,598	17,844
1	1	1	1	1	1
8,868	8,861	8,960	7,632	10,923	12,080
7,761	8,144	9,161	7,487	10,881	10,691
1	1	1	1	3,741	1
69,429	59,168	52,282	41,574	22,425	35,615
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11,850	10,283	7,983	5,759	13,175	12,449
5,907	8,316	11,228	5,329	1	6,617
1	1	1	1	1	1
1	1	1	1	1	1
1	19,952	2,030	9,651	21,097	5,216
9,740	2,343	2,484	1	1	1
11,421	1	5,192	1	2,766	2,317
11,421	1	5,021	1,432	2,193	4,350
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1	1	1	1	1	1
1	1	6,586	5,505	4,132	9,176
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3,982	2,664	1	2,370	8,670	1
6,080	1	1	1	1	1
5,893	24,670	8,776	1	5,085	8,785
1	4,909	1	1	1	1
1	1	1	1	1	1
1	1	5,421	1	1	4,812
1	1	1	1	1	1,679
1	1	1	1	1	1
1	1	1	1	1	1
10,085	7,959	10,664	2,974	12,134	8,517
5,171	1	7,241	1	4,202	4,814
1	1	1	1	1	1

1	3,257	1	5,861	1	1
2,412	7,615	5,586	6,457	9,047	9,319
1	1	1	1	1	1
12,496	5,454	4,052	8,618	13,449	14,376
4,052	1	1	6,003	1	10,974
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1	1	1	1	1	1
1	1	1	1	1	1
14,401	11,208	8,015	10,555	15,836	14,702
14,939	10,747	11,389	10,555	15,047	14,552
1	1	1	1	1	1
1	1	1	1	4,959	1
2,437	3,631	8,061	5,766	8,656	10,595
13,567	13,358	15,197	24,881	231,647	51,618
1	1	1	1	17,443	1
13,567	13,642	14,691	24,881	231,647	51,306
4,264	1	5,030	5,687	2,658	12,696
1	4,993	4,488	5,014	8,897	1
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1	1	1	1	1	1
1	1	1	1	1	1
1	6,898	4,917	1	4,716	5,467
1	1	1	1	1	1
1	1	1	1	2,447	1

1	4,624	4,535	1	4,518	1
10,200	17,159	11,016	8,876	12,258	16,939
10,010	15,895	11,213	9,293	10,674	14,123
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1	1	1	1	1	1
1	1	1	1	1	1
10,409	11,403	10,160	10,951	11,033	13,501
6,078	6,064	6,189	7,751	7,703	4,887
96,366	92,154	81,877	47,584	59,441	60,637
96,366	88,728	81,867	47,832	59,441	56,759
96,366	88,751	80,493	46,741	59,441	55,857
3,931	10,278	3,016	9,016	16,050	7,952
1	1	1	4,012	1,958	2,466
3,239	13,102	1	47,255	26,328	15,806
1	27,002	23,678	40,473	43,759	102,075
1	6,553	21,300	31,421	1	12,469
239,732	225,829	255,960	222,691	324,070	221,500
239,681	227,068	255,242	222,691	325,744	221,210
240,130	226,750	261,326	222,523	324,297	222,151
1	1	1	1	1	1
2,916	1	1	1	1	5,156
99,323	83,664	97,732	87,686	129,418	83,343
100,471	83,447	97,821	87,500	129,134	83,891
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3,630	6,509	4,468	1	1	4,251
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1	1	6,464	1	1	1

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10,943	13,535	10,878	14,112	14,119	19,181
1	2,512	4,382	2,964	9,725	3,984
1	3,801	1	1	1	3,201
1	1	1	1	1	1
46,940	53,119	66,308	65,928	143,506	101,026
11,502	6,072	2,378	8,687	8,955	12,130
1	2,816	8,160	1	7,013	8,451
6,757	68,014	9,013	26,603	1	37,034
12,387	88,738	9,232	73,065	62,919	2,069
1	59,810	85,338	42,481	78,121	65,073
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1	1	1	1	1	1
16,862	18,792	21,477	22,902	53,686	38,791
16,862	18,792	23,726	22,902	55,160	38,791
16,862	18,792	21,477	22,902	53,686	38,791
6,304	7,832	5,396	1,318	7,359	4,111
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1	3,979	5,358	1	5,820	8,614
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10,235	1	4,826	3,193	8,994	9,364
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6,089	1	4,390	1	8,814	7,408
1	1,664	1	1	1	1
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1	8,639	1	1	3,222	1
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4,694	1	1	1	1	1
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11,588	8,520	8,204	1	4,529	6,734
9,209	6,057	7,987	7,086	1	10,483
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11,720	12,011	7,387	10,787	15,429	14,794
4,731	4,914	4,235	4,099	9,894	3,704
1	10,995	8,023	2,891	5,092	9,363
1	7,892	5,598	6,481	5,297	10,403
1	1	1	1	1	1
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7,025	11,163	9,180	4,566	9,304	11,663
1	5,305	1	4,388	5,465	5,370
1	1,626	2,044	1	6,182	1
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1	1	1	1	1	1
6,179	6,205	1	1	8,345	1
5,867	4,401	7,495	4,327	4,328	4,870
1	1	1	3,747	1,337	3,726
1	1	1	1	1	1
2,243	1	1	4,083	7,229	5,467
1	1	1	1	7,216	1
1	3,240	1	1	1	1
5,046	5,231	2,410	4,094	2,757	1
1	1	1	1	1	1
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6,718	1	1,128	5,605	1	1
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7,606	1	1	1	7,798	6,564
3,481	1	4,379	1	1	3,494
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1	5,829	4,516	1	1	1
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2,695	9,209	5,831	3,875	1	3,135
1	2,619	3,293	1	4,910	1
3,137	8,175	2,680	1	10,410	1
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3,694	3,411	4,191	6,266	1	4,825
1	5,324	7,761	7,728	7,301	3,334
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1	1	1	1	1,606	2,420
1	1	1	1	1	4,863
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3,156	1	3,656	4,800	1	10,174
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1,484	1	1	1	1,698	1
1	1	1	1	4,645	1
7,189	4,701	1	3,715	1	6,229
1	1	1	1	1	1
1	1	5,118	1	4,955	1
8,793	9,031	1,600	4,896	9,193	12,823
1	3,617	1	1	1	9,243
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15,264	9,886	1,696	9,093	13,279	8,782
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4,764	8,742	5,755	9,367	6,495	5,897
13,584	11,971	6,820	14,703	17,555	15,013
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6,606	5,179	9,456	7,480	5,990	7,822
4,714	5,900	5,348	1	1	7,003
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4,933	2,577	3,533	3,422	15,462	7,023
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1	1	3,135	1	7,259	3,036
9,952	10,325	7,492	4,745	3,206	7,403
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2,027	1	1	5,158	1	3,052
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1	1	1	1	1	1
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5,719	4,485	1	7,358	6,405	5,200
1	5,957	6,130	8,304	9,130	4,467
1	1	1	1	1	1
5,161	996	4,228	1	10,541	3,559

4,455	2,095	1	3,187	12,453	15,762
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3,827	4,155	3,228	1	2,116	7,175
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1	1	1	1	1	1
1	1	3,996	1	3,363	3,604
3,830	2,881	1	7,270	1	1
1	4,229	5,821	7,488	3,610	10,528
11,249	7,703	7,332	14,334	11,603	13,753
1	1	1	1	1	1
9,954	7,142	3,201	2,127	9,586	8,142
13,753	7,632	8,325	6,486	12,081	9,190
1	1	1	1	1	1
1	1	1	1	1	1
1	2,345	3,672	6,208	1	8,209
7,293	7,093	7,461	10,886	110,040	24,658
1	1	1	1	8,800	1
8,352	9,071	2,405	4,280	7,085	7,328
1	1	1	1	1	1
17,187	17,287	16,592	16,675	19,354	18,191
17,187	17,287	16,592	16,675	19,354	18,191
1	1	1	1	23,443	1
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1	1	1	1	1	1
1	1	1	1	1	10,215
4,518	8,544	3,876	5,183	2,764	1,345
1	1	1	1	1	1
1	1	1	1	1	1
1	4,621	5,096	10,150	6,889	11,744
7,556	1,069	7,625	7,671	1	4,558
3,057	4,133	2,532	4,317	6,232	1
3,895	1	1	1	1,595	1
11,490	10,032	2,709	6,648	10,573	6,809

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1	1,671	1	1	1	1,088
1	2,610	2,517	1	1	1
1	1	1	1	1	1
3,065	1	1	6,088	1	3,967
3,333	1	7,593	7,352	4,555	3,947
7,707	8,381	6,469	7,180	9,315	8,919
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
6,734	1	1,763	1	1,586	9,567
1	1	1	1	1	1
1	3,527	1	1	3,727	1,245
7,607	1	1	1	1	1
5,948	1,198	3,324	2,304	6,053	8,859
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	2,995	8,339	2,022	8,763	1
1	1	1	1	1	1
1	1	1	1	1	1
6,828	5,508	4,192	6,069	3,681	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
2,285	7,984	1	3,559	1	1
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1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1

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4,982	5,289	11,079	6,086	2,889	16,193
1	1	1	1	1	1
1	1	1	1	1	1
5,988	10,294	12,585	8,270	9,612	13,399
1	1	1	1	1	1
11,373	10,770	9,762	6,745	13,128	12,629
1	1	1	1	1	1
7,322	2,363	3,699	1	1,679	2,851
1	1	1	1	1	1
3,407	1	1	1	1	1
1	1	1	1	6,358	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
4,236	11,261	1	5,905	8,898	5,267
4,236	7,349	1	5,639	6,347	6,683
1	4,136	1,241	7,741	3,079	5,456
1	3,257	6,526	3,158	1	5,379
7,502	6,824	4,995	9,820	3,681	7,719
4,103	1	2,378	7,896	4,128	8,767
10,312	4,677	8,091	2,625	9,699	1,624
1	1	1	1	1	1
4,637	7,156	1	4,084	6,252	9,151
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
31,436	30,901	25,891	28,212	28,826	31,516
9,692	11,228	7,869	6,507	6,825	13,135
12,585	1,195	3,344	5,320	6,227	12,131
1	2,709	5,438	3,740	1	1
22,280	21,735	21,670	21,992	30,940	27,200
1	1	1	1	1	1
1	4,034	1	4,469	10,114	2,055

4,678	7,188	2,918	4,813	7,953	7,956
5,429	2,612	3,074	4,676	7,850	6,710
1	1	1	1	1	1
14,248	16,065	14,749	15,515	18,586	16,982
46,022	52,025	1	1	1	57,480
46,022	52,025	47,347	49,141	59,058	57,480
1	1	1	1	1	1
5,646	1	3,287	5,090	1	4,410
1	1	1	1	1	1
1	5,366	1	5,655	7,466	6,006
1,092	1	1	1	1	1
1	1	1	1	1	1
9,919	6,503	7,556	1	8,961	9,082
1	1	1,933	2,967	1	6,391
1	1	1	1,885	5,466	1
1	5,003	1	4,084	1	7,219
1	1	1	1	1	1
1	1	2,812	3,359	3,142	1
1	1	3,763	2,569	3,341	5,320
3,332	11,701	3,370	2,500	5,387	1
1	9,488	7,382	1	1	1
1	1	1	1	1	1
1	1	1	6,707	7,374	3,708
3,604	2,578	3,054	2,846	6,778	1
2,068	4,032	3,355	4,762	1	1
1	5,940	1	1	1	1
1	1,195	1	1	6,273	4,291
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	8,343	7,083	9,493	5,001
7,368	5,534	8,190	8,043	4,274	1
10,886	8,599	10,322	3,414	8,305	7,833
1	1	1	1	1	1
1	4,471	1	2,975	1	1
1	1	1	1	1	1
1	1	1	1	2,974	1

23,617	26,302	24,703	25,329	31,749	27,631
1	1	1	1	1	1
5,899	6,796	5,794	6,401	6,055	7,557
4,569	7,211	2,981	1	1,349	7,316
1	1	1	1	1	1
1	1	1	1	1	1
2,863	1	1	1	1	1
1	1	1	1	1	1
1	6,529	2,567	2,792	6,101	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
10,608	10,127	4,892	1	11,465	5,213
1	1	1	1	1	1
12,441	13,054	12,822	12,289	18,033	15,079
1	1	1	1	1	1
3,265	7,546	5,629	1	4,559	10,755
1	1	1	1	1	1
1	1	1	1	5,773	1
1	1	1	1	1	1
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1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	6,102
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13,404	13,246	12,328	16,009	102,183	21,945
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1	1	1	1	1	1
1	2,737	1	1	1	1
1	2,590	1	2,334	1	1
1	1	1	1	1	1
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1	1	1	1	1	1
1	1	1	1	1	1,807
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	19,812	1
1	1	1	1	1,839	1

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3,160	1	1	1	1	1
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8,401	9,040	9,578	8,964	14,748	11,510
1	1	1	1	27,737	1
1	1	1	1	4,491	1
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55,030	61,255	68,336	76,863	591,614	123,023
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1	1	1	1	1	1
21,776	20,574	20,428	24,168	28,510	23,751
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1	5,917	1	5,525	9,235	5,339
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1	1	1	1	16,273	1
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1	1	1	1	68,731	8,258
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1	1	1	1	67,556	12,577

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1	1	1	1	52,256	1
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60,652	54,091	48,101	71,772	449,613	103,100
1	1	1	1	36,660	1
1	1	1	1	16,829	1
1	1	1	1	11,650	1
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51,064	47,685	46,822	47,933	39,108	59,412
1	1	1	1	1	1
1	1	1	1	26,445	1
14,506	20,241	14,580	23,016	144,652	29,118
1	1	1	1	1	1
28,604	48,266	1	57,301	313,641	65,344
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1	1	1	1	17,561	1
1	1	1	1	1	1
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69,489	68,428	66,577	68,663	95,203	83,174
1	1	1	1	1	1
911,027	1,248,283	701,931	1,356,664	1,048,959	1,499,921
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1	3,686	4,201	1,416	1,552	5,342
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	6,982	1
108,251	123,080	134,915	147,565	175,613	139,081
7,198	7,165	5,650	11,184	22,703	8,508
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1	1	1	1	1	1
103,654	70,988	103,787	148,304	1	1
105,431	76,529	42,583	82,183	71,343	122,561
92,616	66,674	143,021	82,183	71,343	122,561
1	1	69,245	1	228,448	1
158,367	157,643	141,943	152,782	154,342	141,471
158,987	158,621	141,480	144,754	155,201	146,188
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1	1	1	1	1	1
80,270	192,953	302,246	1	475,886	214,136
1	1	1	1	1	1
1	1	1	1	1	1
1	3,477	1	1	11,977	5,312
1	1	3,591	1	9,896	1
1	1	1	1	6,287	1
1	1	1	1	1	1
1	1	1	1	1	1
130,546	132,405	120,933	128,697	160,817	159,635
1	1	1	1	1	1
1	1	1	1	1	1
32,377	36,271	34,816	23,007	51,358	45,583
26,130	30,313	12,342	25,652	53,243	44,549
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33,896	40,424	50,406	81,462	112,829	98,646
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1	1	1	1	1	1
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15,287	13,551	12,157	16,996	16,222	15,910
1	1	1	1	1	1
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43,235	35,322	51,067	50,565	201,193	77,460
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
22,884	30,765	31,503	28,903	70,842	52,002
1	10,476	13,459	1	1	1
11,091	10,476	13,459	12,231	13,995	14,624
11,091	10,476	13,459	12,231	13,995	14,624
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	4,802	1
69,244	67,373	69,727	67,402	75,762	84,807
1	1	1	1	4,674	1
1	1	1	1	1	1
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69,136	67,399	70,721	67,378	75,873	84,092
1	1	1	1	1	1
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1	1	1	1	1	1
1	2,624	7,933	4,540	4,728	6,954
1	1	1	1	1	1

33,308	40,117	43,249	33,102	53,732	53,082
1	3,793	3,469	1	4,367	8,371
1	1	1	1	1	1
1	1	1	1	1	1
19,534	17,044	20,483	32,237	172,421	42,865
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1	1,472	1,807	3,761	2,140	1
1	1	1	1	1	1
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19,562	16,397	10,951	1	1	1
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1	1	1	1	1	1
29,547	34,125	37,583	27,866	49,300	42,211
1	1	1	1	1	1
1	2,693	1	1	1	1
1	1	1	1	1	1
30,585	33,197	22,958	25,644	24,785	8,142
10,534	9,223	6,630	9,960	11,165	11,846
1	1	1	1	1	1
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1	1	1	1	1	1

42,766	49,109	52,730	46,820	117,931	83,752
1	1	1	1	1	1
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1	1	1	1	1	12,122
1	1	1	1	1	1
34,027	42,624	44,865	41,142	120,230	71,114
14,175	15,405	13,999	21,632	99,941	22,207
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1	1	1	1	1	1
22,300	25,309	33,336	27,904	67,744	43,813
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1	1	1	1	1	1
22,002	21,226	20,260	27,213	155,949	42,218
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1	1	1	1	1	1
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1	1	1	1	1	1
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28,985	23,119	1	1	1	4,793
1	1	1	1	1	6,606
1	5,912	5,797	9,155	49,043	14,342
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1	1	1	1	1	1
4,487	1	1	1	1	11,542
4,575	1	1	1	1	12,808
1	1	1	1	33,428	1
147,107	1	1	1	239,092	228,998
1	1	1	20,592	1	1
1	1	1	1	1	1
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1	1	1	1	64,328	21,743
21,957	19,452	13,645	16,524	85,049	36,639
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1,423	1	1	1	1	1
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1	1,002	861	1	1	1,291
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1	1	1	1	1	1
1	1	1	1	1	1
6,755	1	6,194	17,252	11,777	8,983
7,508	12,891	8,562	16,795	11,155	8,721
35,031	46,786	41,140	35,976	46,988	41,995
36,748	46,223	41,276	40,432	49,329	42,041

11,105	10,379	10,024	1	12,007	17,452
12,809	9,951	10,670	1	12,023	16,096
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1	7,296	1	1	1	1
8,786	6,923	9,673	8,770	7,385	11,248
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1	1	1	1	71,304	7,702
1	1	1	1	1	1
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1	1	1	1	1	1
35,995	65,417	1	30,390	35,109	1
1	5,014	17,127	1	1	2,875
1	1	1	1	1	1
1	1	1	2,014	1	1
1	1	1	1	1	1
44,972	10,994	42,311	23,758	4,023	8,374
130,408	132,975	120,920	129,418	160,460	158,645
26,812	31,322	39,386	37,139	82,338	59,916
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7,844	13,438	14,258	6,784	1	16,510
1	13,438	1	1	1	1
1	1	1	1	1	1

1	1	1	1	1	19,499
1	1	1	1	1	1
16,862	18,792	21,477	22,902	55,160	38,791
6,929	1	5,800	6,935	8,218	6,935
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	5,466	1	1	1	1
7,819	5,466	7,619	23,453	1	25,602
7,819	2,882	7,619	23,453	165,751	38,560
1	1	1	1	15,298	1
1	4,965	1	1	1	1
1	1	1	1	36,899	1
155,412	195,227	168,728	199,698	1,053,394	329,832
1	1	1	211,280	1	1
148,236	1	152,158	1	1	309,635
1	1	1	1	1	1
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1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
131,200	151,579	141,972	234,297	1,691,193	377,257
1	1	1	1	1	1
20,438	22,436	21,569	19,646	21,929	13,510
1	1	1	1	1	1
141,005	154,883	147,200	240,088	1,707,067	381,485
18,094	25,971	26,417	24,833	29,013	27,700
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