

3 October 2023



ChemX Materials (ASX:CMX) (ChemX or the Company), an Australian based high purity critical materials business provides further information to the previously released announcement on 6<sup>th</sup> September 2023, Test Work Delivers HPA Flowsheet Enhancements.

The additional information is provided on pages 2, 3 and pages 8-14

This announcement has been authorised for release by the Board.

Stephen Strubel
Executive Director
Company Secretary
ChemX Materials Ltd
stephen@chemxmaterials.com.au
+61 (0) 404 400 785



## **ASX ANNOUNCEMENT**

6 September 2023

Testwork delivers HPA flowsheet enhancements and HPM market update

- High Purity Alumina (HPA)
  - Pilot Plant flowsheet optimised following further operational testwork success of HPA Micro Plant.
  - Pilot Plant to allow for intermediate HPA products for qualification with battery separator manufacturers.
  - CMX's 100%-owned HiPurA® HPA International Patent progressing on track
  - Pilot Plant equipment first deliveries to ChemX expected this month.
- High Purity Manganese (HPM)
  - Maiden Mineral Resource Estimate for Jamieson Tank Manganese Project on the Eyre Peninsula, South Australia to be finalised in consultation with CSA Global this month.

**ChemX Materials (ASX:CMX) (ChemX** or **the Company)**, an Australian based high purity critical materials business, is pleased to announce significant progress in both HPA and HPM business streams.

ChemX Materials has been advancing the development of its 100%-owned HiPurA® HPA Pilot Plant, to be located at its dedicated facility in O'Connor Perth, Western Australia to deliver the required volumes of HPA for product qualification with Battery Separator manufacturers and consumers of high purity aluminous products and synthetic sapphire producers. As a result of marketing activities and industry discussions, ChemX has identified markets for intermediate high purity aluminous products, which offer potential volume increases in addition to the markets for 4N and 5N HPA.

#### Chief Executive Officer Peter Lee commented:

"The Micro Plant has proven extremely effective in delivering the process data required to improve the design and optimise the operation of the Pilot Plant ahead of time. This has resulted in a significant reduction in capital costs and reagent requirements.

Importantly, the resized pilot plant will still meet expected customer demand in producing sufficient product to complete qualification with battery separator makers, synthetic sapphire growers and other burgeoning markets".



Following recent strategic investment in high precision analytical equipment and dedicated human resources for high purity analysis, the HPA Micro Plant has experienced increased operational performance, with these enhancements being fed directly into the HPA Pilot Plant flowsheet design.

The step-change in performance of the HPA Micro Plant has been a key highlight and success of the scaled development approach, which has provided added confidence and reduced the risk associated with scaling up high purity metallurgical processes, which is common under continuous operation for novel technologies.

## **HPA Update**

As part of its process of continuous optimisation of the HPA Micro Plant, ChemX made adjustments throughout the time periods shown in Figures 1 and 2 below which delivered an increased stability of the system and resulted in reductions in total impurities in samples tested as shown in Figures 1 and 2 below.

In initial runs, the process experienced an anomalous spike in phosphorus impurities in June which was not present in later assays. The data obtained from the results below is currently being fed by ChemX into the design of its HPA Pilot Plant. ChemX's process selectively removes impurities from feedstock solution to target total impurities across elements of less than 100pm or 4N HPA.

Further information including full assay data is available in Appendix A and JORC Table 1 (Appended).

#### **HPA Micro Plant Performance Following Process Enhancements** All HPA impurities 66 elements (ppm) 12000.00 10000.00 Impurities (ppm) 8000.00 6000.00 4000.00 2000.00 0.00 August 14 August 15 July 04 August 15 July 11 July 13 01 August 02 August 11 August ( August ? July Date

Figure 1. HPA Impurities Chart

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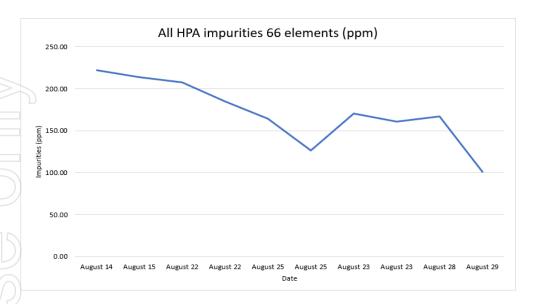


Figure 2. HPA Impurities Chart without June and July readings.

#### Notes:

- 1) Analysis conducted by LabWest Minerals Analysis Pty Ltd. (NATA accredited Laboratory)
- 2) Analysis Method Microwave Digest, HF/Multiacid, 66 Elements including REE's by ICP-MS/OES.
- 3) Complete analysis provided in Appendix A with supporting JORC table 1.

CMX's 100%-owned HiPurA® process is a disruptive flowsheet which converts aluminous chemical feedstocks through selective refining to high purity alumina. Ultimately, CMX aims to achieve the delivery of 4N high grade and potentially 5N HPA products for the electric vehicle battery separator and synthetic sapphire markets, LEDs, semi-conductor and optical lenses.



high purity alumina.
Figure 3. HPA Micro Plant Production

In July 2022, the Company lodged an international patent application, with a recent preliminary international report indicating ChemX's claims complied with requirements novelty, inventive step and industrial applicability. The patent approval process is ongoing. The progression of the HiPurA® patent is a significant step for the Company in the protection of intellectual property and competitive advantage against incumbent operators who rely on nonnovel, licenced, energy and reagent intensive technologies to produce

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As the HiPurA® HPA process is modular, scalable and independent of direct mine production, this will enable ChemX to locate key production facilities close to customers. Ongoing customer engagement has led to the identification of new intermediate products. The inclusion of these requisite flowsheet process enhancements and alternative product pathways will now add several weeks to the construction timeframe and result in a robust pilot plant design, negating the requirement to build additional plant(s) to produce alternative intermediate products for customer qualification.

With the success of the Micro Plant under continuous operation, it will be modified to take feedstock from the Pilot Plant to produce premium products such as 5N (99.999%) HPA, used for synthetic sapphire production.

## **HPM Update**

The Company has been working with ERM Australia Consultants Pty Ltd, (trading as CSA Global) toward a maiden Mineral Resource estimate (MRe). This work is in its final stages and the Company expects to release the results this month.

ChemX's manganese deposit is strategically located on the Eyre Peninsula, South Australia, approximately 150km west of Whyalla, an important regional industrial and steel manufacturing town capable of supporting a skilled local workforce with excellent multi-commodity processing, having significant road, rail, port logistics infrastructure already in place.

The Company has been in discussions with relevant parties for local sourcing of chemical reagents required to produce battery grade Manganese Sulphate for the electric vehicle battery cathode market. The project's manganese mineralisation is near surface and has demonstrated the ore can be upgraded via beneficiation (ASX 11 May 2022), which can then be processed into High Purity Manganese Sulphate Monohydrate (HPMSM).

In early 2022, the Company secured a Non-Binding MoU with US based C4V, a leader in battery technology and is involved in some of the world's largest gigafactory developments to progress ChemX's High Purity Manganese Project and work towards HPM offtake following the qualification process.

ChemX is investigating using the Eyre Peninsula Manganese deposit as a feedstock for a high purity manganese sulphate production facility to be located in Whyalla, South Australia, which boasts an abundance of renewable energy in the region within a tier-one sovereign jurisdiction, offering potential customers superior ESG credentials.

The Company continues to advance its marketing efforts to enter early qualification with electric vehicle battery manufacturers and cathode chemical companies. The Company's pending initial manganese resource estimate, internal development and metallurgical studies to follow will be key milestones to advance discussions with entities seeking to secure Australian sourced manganese sulphate supply.

**ENDS** 



This Announcement has been authorised for release by the Board.

### For enquiries:

#### Peter Lee

Chief Executive Officer Secretary

ChemX Materials Ltd

peter@chemxmaterials.com.au

+61 (0) 448 874 084

## Stephen Strubel

Executive Director and Company

ChemX Materials Ltd

stephen@chemxmaterials.com.au

+61 (0) 404 400 785

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#### **Directors**

Warrick Hazeldine Non-Executive Chair

Alwyn Vorster Non-Executive Director

Tara Berrie Non-Executive Director (US Based)

Stephen Strubel Executive Director & Company Secretary

Management

Peter Lee Chief Executive Officer

## **Reporting confirmation**

11 May 2022 ChemX Battery Materials Strategy Moves Forward

The Company confirms that it is not aware of any new information or data that materially affects the information included in the market announcement.

## **COMPETENT PERSON STATEMENT – Metallurgy**

Mr Steven Hoban is a Principal Metallurgist with a Bachelor of Mineral Science degree and Member of the AusIMM institute with more than 25 years of experience. Steven's expertise lies across many fields in the minerals industry with a key role in the development, design and interpretation of laboratory testwork with significant recent experience in high purity applications such as silica, lithium and alumina. Mr Hoban has sufficient experience relevant to the type of processing and analysis under consideration and the activity undertaken to qualify as a Competent Person as defined by the AusIMM.

Mr Hoban deems these results as true and correct at the time of reporting and representative of the product produced from the HiPurA® process pilot plant by ChemX Materials.

Mr Hoban consents to the inclusion in this announcement of the matters based upon the information in the form and context in which it appears.

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## **About ChemX Materials (ASX: CMX)**

ChemX is an advanced materials company focused on providing high purity critical materials for the battery industry. The Company's vision is to become a leading supplier of sustainable and ethically sourced critical materials to support the global energy transition.

ChemX is applying its high purity expertise to advance its Manganese project located on the Eyre Peninsula in South Australia. Metallurgical test work has indicated the manganese ore is amendable to upgrade through beneficiation and being processed into a high purity manganese sulphate to supply the Lithium-ion battery industry.

Developed in-house, ChemX's HiPurA® Process is capable of producing high purity alumina (HPA) and high purity aluminium cathode precursor salts for lithium-ion batteries. Initial test work has indicated that the process is low cost and low in energy consumption, compared to alternative methods. A key competitive advantage is that the HiPurA® process modular, scalable and is not tied to direct mine production, instead utilising chemical feedstock.

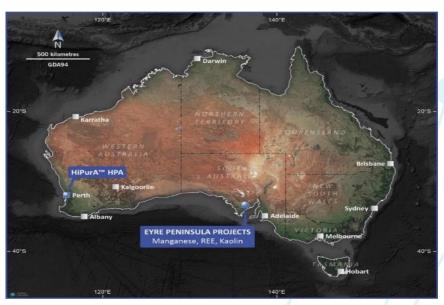


Figure 2 – ChemX Project Locations

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# JORC Code (2012 Edition) Table 1 – High Purity Alumina

## Section 1: Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (e.g., cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes,	Final HPA product (post calcination material) is obtained from several areas within the crucible volume to provide a representative composite sample mass of approximately 50 grams.  Robust testwork with external laboratories
	or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.	(predominantly Intertek Perth and LabWest Perth) has resulted in sufficient confidence within the reported results.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Predominant analytical methods included ICP-MS and Microwave Digest Methods (both NATA Accredited) to analyse 66 elements with sub parts per million (ppm) precision achieved.
	Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g., "RC drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay"). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g., submarine nodules) may warrant disclosure of detailed information.	The Competent Person (CP) considers that the sample techniques adopted by ChemX are appropriate for the intended purpose and aforementioned analytical methods.
Drilling techniques	Drill type (e.g., core, RC, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g., core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).	Not Applicable. Samples were obtained from ChemX's Micro Plant employing a novel process, using an industrial sourced feedstock.

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Criteria	JORC Code explanation	Commentary
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Not Applicable Not Reporting exploration Results.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	Not Applicable. Not Reporting exploration Results.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.	
	The total length and percentage of the relevant intersections logged.	
Subsampling techniques and sample	If core, whether cut or sawn and whether quarter, half or all core taken.	Samples presented as a homogenised high purity crystalline alumina, obtained from precipitation, followed by filtration, drying and
preparation	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	final calcination processes.  The nature of the precipitation and filtration stages results in this homogenised product,
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	which is split into four crucibles for removal of crystalline water via calcination.
	Quality control procedures adopted for all subsampling stages to maximise representivity of samples.	This material is then parcelled to 100 to 500g allotments for batch storage within ChemX's production sample archive.
	Measures taken to ensure that the sampling is representative of the insitu material collected, including for instance results for field duplicate/second-half sampling.	With the high level of precision within the analytical methods applied, there is no evidence the sample sizes are inadequate or inappropriate for subsampling using the techniques adopted.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	The CP does not consider there is any bias in the ChemX sampling process.
Quality of assay data and laboratory tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	LabWest completed internal quality assurance/quality control (QAQC) assay procedures comprising appropriate reference samples and standards. No material issues were identified in the laboratory QAQC.
	For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the	LabWest is NATA accredited in accordance with ISO/IEC 17025, and obtained this certification 16/9/2011 (#17061).
	analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	The CP considers that a reasonable level of confidence can be placed in the accuracy and precision of the assay data used in the preparation of the reported results.

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Criteria	JORC Code explanation	Commentary
	Nature of quality control procedures adopted (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.  The use of twinned holes.	ChemX uses third party 5N reference material to provide benchmark on selected assay submissions.  The CP considers the verification of sampling
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	and assaying appropriate for the high purity nature of HPA.
	Discuss any adjustment to assay data.	
Location of data points	Accuracy and quality of surveys used to locate drillholes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	Not applicable. Not Reporting exploration Results.
	Specification of the grid system used.	
	Quality and adequacy of topographic control.	
Data spacing and	Data spacing for reporting of Exploration Results.	Not applicable. Not Reporting exploration Results.
distribution	Whether the data spacing, and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	
	Whether sample compositing has been applied.	
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	Not applicable. Not Reporting exploration Results.
	If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	
Sample security	The measures taken to ensure sample security.	Samples as captured from the calcination crucibles are kept within 100 to 500g allotments to provide batch verification capability as may be deemed warranted.

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Criteria	JORC Code explanation	Commentary
		Submitted samples (nominally 50g) are held securely (and registered within Laboratory Information Management System (LIMS) upon arrival) by the responsible external laboratory to ensure ability to verify analysis as deemed necessary.
		Sample bottles are sampled and sealed immediately to prevent inadvertent contamination with incorrect sampling or foreign matter.  The CP considers the sample security does not pose any risk for the reporting of these results.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	ChemX has conducted several visits to LabWest's facilities with no concerns being identified.

## **Section 2: Reporting of Exploration Results**

(Criteria listed in the preceding section also apply to this section)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.  The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in	Not applicable. Not Reporting exploration Results.
Exploration done by	the area.  Acknowledgment and appraisal of exploration by other parties.	Not applicable. Not Reporting exploration Results.
other parties Geology	Deposit type, geological setting and style of mineralisation.	Not applicable. Not Reporting exploration Results.
Drillhole information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drillholes:  • Easting and northing of the drillhole collar  • Elevation or RL (Reduced Level – Elevation above sea level in metres) of the drillhole collar  • Dip and azimuth of the hole  • Downhole length and interception depth	Not applicable. Not Reporting exploration Results.

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Criteria	JORC Code explanation	Commentary
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g., cutting of high grades) and cut-off grades are usually Material and should be stated.	Not applicable. Not Reporting exploration Results.
	Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	P / W
Relationship between mineralisation	These relationships are particularly important in the reporting of Exploration Results.	Not applicable. Not Reporting exploration Results.
widths and intercept lengths	If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported.	
	If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g., "downhole length, true width not known").	
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drillhole collar locations and appropriate sectional views.	Not applicable. Not Reporting exploration Results.
Balanced reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	Not applicable. Not Reporting exploration Results.

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Criteria	JORC Code explanation	Commentary
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	Not applicable. Not Reporting exploration Results.
Further work	The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling).	The Company is continuing optimisation activities within its Micro Plant with the objective to achieve higher purity HPA targets.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	The optimised Micro Plant learnings will be applied to the larger Pilot Plant, which is to be constructed within Q4 CY2023.

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## **APPENDIX A**

9	ample	66 Element Total (ppm)	Ag	As	Au	В	Ва	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd (	Ge Hf	Hg	Но	1	In	K	La	Li	Lu	Mg	Mn	Mo
	M1S_022_5401_JUNE27	858.93	0.0505	0.0100	0.0005	28.5200	0.0296	0.0035	0.0087	10.2600	0.0025	0.0073	0.0028	0.0640	0.0014	0.5440	0.0011	0.0005 0.	.0005	12.8200 16	5.3200 0.0	0.0014	0.000	0.0039	0.0006	0.0590	0.0000	4.4080	0.0104	0.0390	0.0000	0.6210	0.3040	0.0045
	M1S_023_5401_JUNE28	11386.03	0.0562	0.0390	0.0005	17.3800	0.0262	0.0042	0.0030	8.5630	0.0021	0.0056	0.0002	0.1360	0.0003	0.3180	0.0014	0.0018 0.	.0006	54.0500 63	3.7000 0.0	0025 0.0	0.003	0.0008	0.0005	0.0520	0.0005	10.8300	0.0070	0.3020	0.0001	0.8580	0.4540	0.0470
	M1S0245401JULY3	858.64	0.0611	0.0140	0.0005	36.3500	0.0420	0.0021	0.0088	5.7460	0.0038	0.0053	0.0073	0.1670	0.0000	0.5860	0.0002	0.0003 0.	.0002 1	10.0600 11	.0600 0.0	0.00	0.000	0.0002	0.0001	0.0140	0.0001	0.7653	0.0073	0.0710	0.0000	2.0240	6.3420	0.0150
	M1S0255401JULY4	1304.11	0.0211	0.0100	0.0005	31.6800	0.0311	0.0028	0.0039	13.3500	0.0023	0.0087	0.0126	0.0680	0.0001	0.5600	0.0003	0.0002 0.	.0004 1	13.5000 14	1.6600 0.0	0.005	0.000	7 0.0011	0.0002	0.0100	0.0001	1.9670	0.0068	0.0970	0.0001	4.4950	1.0840	0.0185
	M1S026A5401JULY11	1741.89	0.0213	0.0100	0.0005	37.7500	0.0264	0.0021	0.0038	46.6400	0.0032	0.0090	0.0070	0.1020	0.0002	0.4430	0.0010	0.0006 0.	.0002 2	25.8400 28	3.1500 0.0	0.0	0.000	0.0002	0.0002	0.0110	0.0000	2.5730	0.0060	0.0420	0.0001	27.5000	0.9880	0.0070
	M1S027R5401JULY13	634.58	0.0253	0.0100	0.0005	43.0500	0.0274	0.0021	0.0037	9.9920	0.0030	0.0045	0.0648	0.0680	0.0001	2.1200	0.0002	0.0003 0.	.0004 1	10.6100 6	.0560 0.0	0.003	0.000	4 0.0007	0.0001	0.0100	0.0003	2.1940	0.0040	0.0500	0.0001	3.1240	0.4630	0.0200
> 1	M1S028A5401JULY19	293.22	0.0459	0.0100	0.0005	24.1400	0.0251	0.0026	0.0017	17.5400	0.0014	0.0086	0.0133	0.0500	0.0002	0.7760	0.0003	0.0001 0.	.0003	5.1310 2	.9040 0.0	0.00	0.000	0.0008	0.0001	0.0100	0.0001	1.5040	0.0054	0.0320	0.0001	7.4720	0.2430	0.0092
	M1S_028B_5401_AUG15	232.12	0.0200	0.0100	0.0005	23.3800	0.1011	0.0012	0.0058	14.3000	0.0001	0.0032	0.0398	0.3770	0.0000	1.1480	0.0002	0.0000 0.	.0000 1	12.0800 4	.1090 0.0	0.00	0.001 0.001	7 0.0053	0.0000	0.2020	0.0001	0.0521	0.0040	0.3740	0.0000	8.8680	0.4180	0.0384
_	M1S029A5401AUG2	148.39	0.0100	0.0100	0.0005	15.3400	0.1027	0.0089	0.0012	7.0860	0.0016	0.0052	0.0146	0.2330	0.0001	1.4830	0.0002	0.0000 0.	.0001	8.7240 2	.3790 0.0	0.00	0.000	7 0.0015	0.0001	0.0270	0.0001	2.1690	0.0042	0.0480	0.0001	2.9270	0.2410	0.0273
	M1S_30A_5401_AU11	255.66	0.0208	0.0100	0.0005	38.9400	0.0568	0.0045	0.0024	7.1030	0.0013	0.0016	0.0226	0.1500	0.0000	0.9470	0.0003	0.0005 0.	.0000 2	23.3700 3	.9170 0.0	0.00	0.002	0.0032	0.0000	0.1740	0.0001	0.4253	0.0048	0.5010	0.0000	2.9370	0.4290	0.0522
	M1S_30B_5401_AUG1	106.88	0.0080	0.0100	0.0005	33.4900	0.0148	0.0002	0.0035	6.0800	0.0023	0.0011	0.0255	0.4250	0.0000	0.9960	0.0003	0.0002 0.	.0000	8.1600 3	.0510 0.0	0.004	0.001	0.0021	0.0000	0.1450	0.0000	1.0250	0.0034	0.5860	0.0000	1.8860	0.3670	0.2583
	M1S_30C_5401_AUG14	222.36	0.0031	0.0180	0.0005	40.8100	0.1004	0.0012	0.0037	21.2300	0.0021	0.0129	0.0189	0.2330	0.0000	0.9390	0.0004	0.0000 0.	.0001	8.6420 3	.3160 0.0	0.004	0.006	0.0021	0.0000	0.1860	0.0001	0.0001	0.0083	0.6460	0.0000	16.7000	0.6520	0.1126
	M1S_30D_5401_AUG15	214.01	0.0241	0.0190	0.0005	39.9800	0.0183	0.0028	0.0023	17.4400	0.0008	0.0070	0.0385	0.1470	0.0001	1.4510	0.0002	0.0001 0.	.0002 1	13.8700 4	.5730 0.0	0.001	0.002	0.0030	0.0000	0.0900	0.0000	3.6990	0.0059	0.5390	0.0000	9.9890	0.6610	0.0374
	M1S_31A_5401_AUG 22	207.83	0.0248	0.0100	0.0005	40.3500	0.0373	0.0011	0.0029	19.0200	0.0011	0.0062	0.0179	0.1430	0.0001	1.3130	0.0007	0.0002 0.	.0003	8.1170 3	.1260 0.0	0.00	0.005	7 0.0008	0.0001	0.1400	0.0000	2.0540	0.0054	0.7120	0.0000	9.5590	0.3960	0.0317
-//	M1S_31B_5401_AUG 22	184.77	0.0237	0.0100	0.0005	40.2300	0.1349	0.0013	0.0018	14.3000	0.0013	0.0083	0.0261	0.1060	0.0003	1.0820	0.0008	0.0003 0.	.0001	5.7110 4	.0930 0.0	0.00	0.001 0.001	0.0048	0.0000	0.1130	0.0000	0.8374	0.0056	0.4680	0.0000	8.7540	0.5180	0.0350
)	M15_32A_5401_AUG 25	164.33	0.0073	0.0100	0.0005	30.0500	0.0534	0.0037	0.0022	13.5600	0.0009	0.0076	0.0421	0.3000	0.0001	1.5730	0.0031	0.0003 0.	.0004	16.1600 4	.8110 0.0	0.0	0.001	0.0006	0.0006	0.0430	0.0000	2.5560	0.0078	0.5060	0.0000	4.9340	0.9420	0.0750
	M15_32B_5401_AUG25	126.17	0.0150	0.0100	0.0005	33.4000	0.0243	0.0001	0.0017	14.1200	0.0024	0.0080	0.0288	0.1450	0.0000	1.5660	0.0044	0.0014 0.	.0003 1	12.2600 5	.8590 0.0	0.007	0.000	4 0.0022	0.0009	0.0270	0.0000	1.4110	0.0083	0.3290	0.0000	6.6230	1.3800	0.0300
	M1S_33A_5401_AUG 23	170.69	0.0041	0.0100	0.0005	47.8000	0.0357	0.0036	0.0029	7.3310	0.0017	0.0025	0.0147	0.0520	0.0000	1.1590	0.0013	0.0003 0.	.0002	6.2120 4	.5140 0.0	0.00	0.003	0.0022	0.0003	0.0980	0.0000	1.1330	0.0058	0.5050	0.0000	1.3610	0.2420	0.0535
	M1S_33B_5401_AUG 23	160.64	0.0101	0.0100	0.0005	48.9900	0.0267	0.0015	0.0022	5.7570	0.0030	0.0044	0.0210	0.0600	0.0001	1.2100	0.0017	0.0008 0.	.0002	6.5620 5	.1340 0.0	0.00	0.005	0.0015	0.0004	0.0980	0.0002	1.0670	0.0065	0.4430	0.0000	1.8410	0.6100	0.0573
	M1S_34A_5401_AUG28	166.90	0.0026	0.0320	0.0005	41.4000	0.0595	0.0156	0.0041	3.2910	0.0021	0.0351	0.0375	0.1890	0.0007	1.3480	0.0013	0.0005 0.	.0007 2	20.7900 1	.3000 0.0	0.0	0020 0.104	0.0026	0.0001	0.0520	0.0005	4.7810	0.0219	0.2880	0.0000	0.8960	0.7210	0.1651
7/	M1S_36A_5401_AUG29	101.30	0.0035	0.0100	0.0008	13.1500	0.0326	0.0045	0.0022	12.3200	0.0023	0.0063	0.0097	0.1360	0.0003	0.5010	0.0008	0.0003 0.	.0003	2.4750 1	.7710 0.0	0.007	0.003	0.0035	0.0001	0.0660	0.0000	3.7800	0.0052	0.3430	0.0000	8.3510	0.1180	0.0396
71																																		
	ample	66 Element Total (ppm)	Na	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	Re	S	Sb	Sc	Se		Sm	Sn	Sr	Та	Tb Te	Th	Ti	TI	Tm	U	V	w	Υ	Yb	Zn	Zr
	ample M1S_022_5401_JUNE27	66 Element Total (ppm) 858.93	4.3970	0.0001	0.0054	0.1760	P 699.5000	0.0766	0.0012	Pr 0.0007	0.0010	<b>Rb</b> 0.0040	<b>Re</b> 0.0007	<b>S</b> 17.6000	0.0028	0.0010	0.0200 1	18.2000 0.	.0007	0.3266 0	.0128 0.0	0.0 8000	0.000	1 0.0097	1.0860	TI 0.0008	0.0001	0.0025	<b>V</b> 0.7600	0.0100	<b>Y</b> 0.0096	0.0008	42.6100	0.0074
	•	858.93 11386.03		0.0001 0.0028	0.0054 0.0064	0.1760 0.3250	P 699.5000 10990.0000	0.0766 0.0614			0.0010 0.0010			\$ 17.6000 183.1000	0.0028 0.0103	0.0010 0.0010	0.0200 1 0.0200	18.2000 0.	.0007	0.3266 0	.0128 0.0 .0149 0.0	0008 0.0 0023 0.0	0002 0.000 0003 0.000	0.0097 0.0098	1.0860 1.9990	0.0007	0.0001 0.0002	0.0025 0.0110	V 0.7600 0.4480	0.0100 0.0100	Y 0.0096 0.0050		42.6100 31.1900	0.0074 0.0671
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3	858.93 11386.03 858.64	4.3970 11.9700 5.0190	0.0001 0.0028 0.0014	0.0054 0.0064 0.0031	0.1760 0.3250 1.4840	10990.0000 633.3000	0.0766 0.0614 0.0840	0.0012 0.0009 0.0005	0.0007	0.0010 0.0010 0.0010	0.0040	0.0007	183.1000 63.1100	0.0028 0.0103 0.0288	0.0010 0.0010 0.0010	0.0200 1 0.0200 0.0310 5	18.2000 0. 9.2280 0. 52.0000 0.	.0007 .0007 .0015	0.3266 0 0.6915 0 0.3990 0	.0128 0.0 .0149 0.0 .0123 0.0	0008 0.0 0023 0.0 0043 0.0	0002 0.000 0003 0.000 0001 0.001	0.0097 0.0098 0.0127	1.0860	0.0007 0.0032	0.0001 0.0002 0.0001	0.0025 0.0110 0.0121		0.0100 0.0100 0.0100	0.0050 0.0035	0.0008	42.6100 31.1900 29.1300	0.0074 0.0671 0.0058
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28	858.93 11386.03	4.3970 11.9700 5.0190 6.2130	0.0001 0.0028	0.0054 0.0064 0.0031 0.0049	0.1760 0.3250	10990.0000	0.0766 0.0614 0.0840 0.0523	0.0012	0.0007 0.0011	0.0010 0.0010	0.0040 0.0045	0.0007 0.0002	183.1000	0.0028 0.0103	0.0010 0.0010 0.0010 0.0010	0.0200 1 0.0200 0.0310 5 0.0200 2	18.2000 0. 9.2280 0. 52.0000 0.	.0007 .0007 .0015	0.3266 0 0.6915 0 0.3990 0	.0128 0.0 .0149 0.0 .0123 0.0 .0205 0.0	0008 0.0 0023 0.0 0043 0.0 0042 0.0	0.0002 0.0000 0003 0.0000 0001 0.001 0001 0.003	0.0097 0.0098 0.0127	1.0860 1.9990	0.0007	0.0001 0.0002	0.0025 0.0110	0.4480	0.0100 0.0100	0.0050	0.0008 0.0004	42.6100 31.1900 29.1300 14.8700	0.0074 0.0671
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S026A5401JULY11	858.93 11386.03 858.64 1304.11 1741.89	4.3970 11.9700 5.0190 6.2130 6.2900	0.0001 0.0028 0.0014 0.0016 0.0013	0.0054 0.0064 0.0031 0.0049 0.0048	0.1760 0.3250 1.4840 15.6400 11.6300	10990.0000 633.3000 1090.0000 1428.0000	0.0766 0.0614 0.0840 0.0523 0.0460	0.0012 0.0009 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009	0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057	0.0007 0.0002 0.0003 0.0002 0.0003	183.1000 63.1100 67.2300 79.6600	0.0028 0.0103 0.0288 0.0162 0.0108	0.0010 0.0010 0.0010 0.0010 0.0020	0.0200 1 0.0200 0.0310 5 0.0200 2 0.0200 3	18.2000 0. 9.2280 0. 52.0000 0. 27.3600 0. 32.5100 0.	.0007 .0007 .0015 .0015	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0	.0128 0.4 .0149 0.4 .0123 0.4 .0205 0.4 .0405 0.4	0008 0.0 0023 0.0 0043 0.0 0042 0.0 0048 0.0	0002 0.000 0003 0.000 0001 0.001 0001 0.003 0002 0.002	0.0097 0.0098 0.0127 0.0124 0.0211	1.0860 1.9990 0.2337 0.2140 0.3800	0.0007 0.0032 0.0020 0.0014	0.0001 0.0002 0.0001 0.0001 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068	0.4480 0.3880 0.4510 0.4300	0.0100 0.0100 0.0100 0.0100 0.0100	0.0050 0.0035 0.0046 0.0069	0.0008 0.0004 0.0005 0.0001 0.0003	42.6100 31.1900 29.1300 14.8700 12.1800	0.0074 0.0671 0.0058 0.0077 0.0088
) ) (	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S026A5401JULY11 M1S027R5401JULY13	858.93 11386.03 858.64 1304.11 1741.89 634.58	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900	10990.0000 633.3000 1090.0000 1428.0000 433.4000	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101	0.0012 0.0009 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001	183.1000 63.1100 67.2300 79.6600 22.7200	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045	0.0010 0.0010 0.0010 0.0010 0.0020 0.0020	0.0200 1 0.0200 0.0310 5 0.0200 2 0.0200 3 0.0200 1	18.2000 0. 9.2280 0. 52.0000 0. 27.3600 0. 32.5100 0. 19.1200 0.	.0007 .0007 .0015 .0015 .0010	0.3266         0           0.6915         0           0.3990         0           0.3476         0           0.4709         0           0.3565         0	.0128	0008 0.0 0023 0.0 0043 0.0 0042 0.0 0048 0.0 0026 0.0	0002 0.000 0003 0.000 0001 0.001 0001 0.003 0002 0.002 0001 0.000	1 0.0097 1 0.0098 4 0.0127 1 0.0124 1 0.0211 5 0.0133	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293	0.0007 0.0032 0.0020 0.0014 0.0011	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095	0.4480 0.3880 0.4510 0.4300 0.6610	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100	0.0050 0.0035 0.0046 0.0069 0.0035	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104
) ) )	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S026A5401JULY11	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046	0.1760 0.3250 1.4840 15.6400 11.6300	10990.0000 633.3000 1090.0000 1428.0000	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687	0.0012 0.0009 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009	0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057	0.0007 0.0002 0.0003 0.0002 0.0003	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043	0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010	0.0200 1 0.0200 0 0.0310 5 0.0200 2 0.0200 3 0.0200 1	18.2000 0. 9.2280 0. 52.0000 0. 27.3600 0. 32.5100 0. 19.1200 0. 19.1100 0.	.0007 .0007 .0015 .0015 .0010	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0	.0128	0008 0.0 0023 0.0 0043 0.0 0042 0.0 0048 0.0 0026 0.0	0002 0.000 0003 0.000 0001 0.001 0001 0.003 0002 0.002 0001 0.000	1 0.0097 1 0.0098 4 0.0127 1 0.0124 1 0.0211 5 0.0133 4 0.0049	1.0860 1.9990 0.2337 0.2140 0.3800	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095	0.4480 0.3880 0.4510 0.4300	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070
9	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S026A5401JULY11 M1S027R5401JULY13	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600	10990.0000 633.3000 1090.0000 1428.0000 433.4000 158.6000 105.0000	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517	0.0012 0.0009 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134	0.0010 0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0020	0.0200 1 0.0200 0.0310 5 0.0200 2 0.0200 2 0.0200 1 0.0200 1 0.0200 1	18.2000 0. 9.2280 0. 52.0000 0. 27.3600 0. 32.5100 0. 19.1200 0. 19.1100 0. 9.8660 0.	.0007 .0007 .0015 .0015 .0010 .0004	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0	.0128 0.1 .0149 0.1 .0123 0.1 .0205 0.1 .0405 0.1 .0127 0.1 .0170 0.1	0008 0.0 0023 0.0 0043 0.0 0042 0.0 0048 0.0 0026 0.0 0018 0.0	0002 0.000 0003 0.000 0001 0.001 0001 0.003 0002 0.002 0001 0.000 0001 0.000	1 0.0097 1 0.0098 4 0.0127 1 0.0124 1 0.0211 5 0.0133 4 0.0049	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887 0.2703	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095 0.0159	0.4480 0.3880 0.4510 0.4300 0.6610	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100	0.0050 0.0035 0.0046 0.0069 0.0035	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110
) )	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S0256A5401JULY11 M1S027R5401JULY13 M1S028A5401JULY19	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0399 0.0003	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210	10990.0000 633.3000 1090.0000 1428.0000 433.4000 158.6000	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0013	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040 0.0060	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134	0.0010 0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0020	0.0200 1 0.0200 0.0310 5 0.0200 2 0.0200 2 0.0200 1 0.0200 1 0.0200 1	18.2000 0. 9.2280 0. 52.0000 0. 27.3600 0. 32.5100 0. 19.1200 0. 19.1100 0. 9.8660 0.	.0007 .0007 .0015 .0015 .0010 .0004 .0007	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0 0.6002 0	.0128 0.1 .0149 0.1 .0123 0.1 .0205 0.1 .0405 0.1 .0127 0.1 .0170 0.1	0008 0.0 00023 0.0 00043 0.0 00042 0.0 00048 0.0 00026 0.0 00018 0.0 00014 0.0	0002 0.000 0003 0.000 0001 0.001 0001 0.003 0002 0.002 0001 0.000 0001 0.000 0001 0.001	1 0.0097 1 0.0098 4 0.0127 1 0.0124 1 0.0211 5 0.0133 4 0.0049 9 0.0045	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125 0.0028	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030
) )	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S0265401JULY11 M1S02785401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0399 0.0003 0.0275	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023 0.0004	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390	10990.0000 633.3000 1090.0000 1428.0000 433.4000 158.6000 105.0000 47.3900 121.0000	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0013 0.0006 0.0007 0.0003	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001 0.0001 0.0004 0.0001	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134 0.0056 0.0067	0.0010 0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0020 0.0020 0.0010 0.0010	0.0200 1 0.0200 2 0.0310 5 0.0200 2 0.0200 3 0.0200 1 0.0200 1 0.0200 2 0.0200 2	January	.0007 .0007 .0015 .0015 .0010 .0004 .0007 .0009 .0009	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0 0.6002 0 0.3021 0	.0128 0.0 .0149 0.1 .0123 0.1 .0205 0.1 .0405 0.1 .0405 0.1 .0127 0.1 .0170 0.1 .0130 0.1 .0220 0.1	0008 0.0 00023 0.0 00023 0.0 00043 0.0 00042 0.0 00048 0.0 00048 0.0 00018 0.0 00018 0.0 00014 0.0 00014 0.0	00002 0.0000 00003 0.0000 00001 0.0001 00001 0.0003 00002 0.0002 00001 0.0000 00001 0.0001 00001 0.0001 00001 0.0000 00001 0.0000	1 0.0097 1 0.0098 4 0.0127 1 0.0124 1 0.0211 5 0.0133 4 0.0049 9 0.0045 7 0.0037	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887 0.2703 0.0764 0.1233	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125 0.0028 0.0056	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095 0.0159 0.0203 0.0146	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0100 0.0330	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0029 0.0022 0.0022	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S_023_5401_JUNE28 M1S025401JULY4 M1S0255401JULY11 M1S027R5401JULY11 M1S028A5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AUG1 M1S_30B_5401_AUG1	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0399 0.0003 0.0275 0.0189	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023 0.0004	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050	10990.0000 633.3000 1090.0000 1428.0000 433.4000 158.6000 105.0000 47.3900 121.0000 20.4500	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0013 0.0006 0.0007 0.0003	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001 0.0001 0.0004 0.0001 0.0004 0.0009	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139	0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0020 0.0010 0.0010 0.0010	0.0200 1 0.0200 0 0.0310 5 0.0200 2 0.0200 2 0.0200 1 0.0200 1 0.0200 2 0.0200 2 0.0200 2	18.2000   0.   0.   0.   0.   0.   0.   0.	.0007 .0007 .0015 .0015 .0010 .0004 .0007 .0009 .0009	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0 0.6002 0 0.3021 0 0.5206 0 0.4121 0	.0128	0008 0.0 0023 0.0 0023 0.0 0043 0.0 0042 0.0 0048 0.0 0026 0.0 0018 0.0 0014 0.0 0014 0.0 00120 0.0	00002 0.000 00003 0.000 00001 0.0001 00001 0.003 00002 0.002 00001 0.000 00001 0.000 00001 0.000 00001 0.000 00001 0.000 00001 0.000	1 0.0097 1 0.0098 4 0.0127 1 0.0124 1 0.0211 5 0.0133 4 0.0049 9 0.0045 7 0.0037 0 0.0049 2 0.0038	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0100 0.0330 0.0320	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0029 0.0022 0.0022 0.0025	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S026A5401JULY11 M1S027R5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AU11 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0399 0.0003 0.0275 0.0189	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023 0.0004 0.0011	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050	10990.0000 633.3000 1090.0000 1428.0000 433.4000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001 0.0001 0.0004 0.0001 0.0004 0.0009 0.0010	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123	0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010	0.0200 1 0.0200 0 0.0310 5 0.0200 2 0.0200 2 0.0200 1 0.0200 1 0.0200 1 0.0200 2 0.0200 2 0.0200 1	18.2000	.0007 .0007 .0007 .0015 .0015 .0010 .0004 .0007 .0009 .0009 .0009 .0005 .0002	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0 0.6002 0 0.3021 0 0.5206 0 0.4121 0 0.4670 0	.0128	0008 0.0008 0.0003 0.0003 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.00004 0.00004 0.00000000	00002 0.000 00003 0.000 00001 0.001 00001 0.003 00002 0.002 00001 0.000 00001 0.000 00001 0.000 00001 0.000 00001 0.0003 00001 0.001	1 0.0097 1 0.0098 4 0.0127 1 0.0214 1 0.0211 5 0.0133 9 0.0049 7 0.0037 0 0.0049 2 0.0038 2 0.0064	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0001	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0100 0.0330 0.0320 0.0340	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0029 0.0022 0.0022 0.0025 0.0020	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0004 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S_023_5401_JUNE28 M1S025401JULY4 M1S0255401JULY11 M1S027R5401JULY11 M1S028A5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AUG1 M1S_30B_5401_AUG1	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0399 0.0003 0.0275 0.0189 0.0276 0.0209	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050	10990.0000 633.3000 1090.0000 1428.0000 433.4000 158.6000 105.0000 47.3900 121.0000 20.4500	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0013 0.0006 0.0007 0.0003	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001 0.0001 0.0004 0.0001 0.0004 0.0009	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071	0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 1 0.0200 2 0.0310 5 0.0200 2 0.0200 3 0.0200 1 0.0200 1 0.0200 2 0.0200 2 0.0200 2 0.0200 3 0.0200 1 0.0200 1 0.0200 1	18.2000	.0007 .0007 .0007 .0015 .0015 .0010 .0004 .0007 .0009 .0009 .0009 .0005 .0002	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0 0.6002 0 0.3021 0 0.5206 0 0.4121 0 0.4670 0	.0128	0008 0.0 0023 0.0 0023 0.0 0043 0.0 0042 0.0 0048 0.0 0026 0.0 0018 0.0 0018 0.0 0019 0.0 0019 0.0 0019 0.0 0019 0.0 0019 0.0 0019 0.0 0019 0.0 0019 0.0 0019 0.0 0019 0.0	00002 0.000 00003 0.000 00001 0.0003 00001 0.0003 00002 0.002 00001 0.0001 00001 0.0001 00001 0.002 00000 0.0003 00001 0.001	1 0.0097 1 0.0098 4 0.0127 1 0.0214 1 0.0211 5 0.0133 9 0.0049 7 0.0037 0 0.0049 2 0.0038 2 0.0064	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034	0.0001 0.0002 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0100 0.0330 0.0320	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0029 0.0022 0.0022 0.0025	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0004 0.0001 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0254501JULY14 M1S026A5401JULY11 M1S027R5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S_028B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14 M1S_30C_5401_AUG14 M1S_30C_5401_AUG15 M1S_30C_5401_AUG14 M1S_30C_5401_AUG14 M1S_30C_5401_AUG15 M1S_31A_5401_AUG12	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0039 0.0007 0.0275 0.0189 0.0276 0.029	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0003 0.0003 0.0004 0.0011 0.0079 0.0052	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100	10990.0000 633.3000 1090.0000 1428.0000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0084	0.0007 0.0002 0.0003 0.0003 0.0001 0.0001 0.0004 0.0004 0.0004 0.0009 0.0010 0.0009	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0123 0.0071	0.0010 0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 1 0.0200 2 0.0310 5 0.0200 2 0.0200 3 0.0200 1 0.0200 1 0.0200 2 0.0200 2 0.0200 2 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1	18.2000	.0007 .0007 .0007 .0015 .0015 .0010 .0004 .0007 .0009 .0009 .0009 .0005 .0002 .0007	0.3266 0 0.6915 0 0.3990 0 0.3476 0 0.4709 0 0.3565 0 0.4907 0 0.6002 0 0.3021 0 0.5206 0 0.4121 0 0.6402 0 0.6402 0 0.7413 0		00008 0.0003 0.0003 0.0003 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 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0.0100 0.0330 0.0320 0.0340 0.0260 0.0270	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0022 0.0022 0.0025 0.0020 0.0015 0.0052	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0004 0.0001 0.0001 0.0003 0.0003	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640 1.9670	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S.023_5401_JUNE28 M1S02540401JULY3 M1S0255401JULY11 M1S02785401JULY13 M1S028A5401JULY13 M1S_028B_5401_AUG15 M1S_028B_5401_AUG15 M1S_30A_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30C_5401_AUG1 M1S_30C_5401_AUG1 M1S_30C_5401_AUG1 M1S_30C_5401_AUG1 M1S_30C_5401_AUG15 M1S_31A_5401_AUG122 M1S_31B_5401_AUG 22	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 0.2010 4.5240 5.1430 4.1160 0.6460	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0275 0.0189 0.0276 0.0276 0.0209 0.0318	0.0054 0.0064 0.0031 0.0049 0.0041 0.0011 0.0023 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800	10990.0000 633.3000 1090.0000 1428.0000 1438.0000 158.6000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236 0.1236	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0013 0.0006 0.0007 0.0003 0.0002 0.0017 0.0013	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0050 0.0050 0.0060 0.0060 0.0044 0.0022 0.0101 0.0065 0.0066 0.0084 0.0111	0.0007 0.0002 0.0003 0.0003 0.0003 0.0001 0.0004 0.0004 0.0004 0.0009 0.0003 0.0009	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.000 41.2400 19.8100 24.4600	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134 0.0056 0.0067 0.0139 0.0139 0.0071 0.0084	0.0010 0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 1 0.0200 2 0.0310 5 0.0200 2 0.0200 3 0.0200 1 0.0200 1 0.0200 2 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 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0.01.11.8500 0.01.11.8500 0.01.11.8500 0.01.11.8500 0.01.11.8500 0.01.11.8500 0.01.11.8500 0.0	.0007 .0007 .0005 .0015 .0010 .0004 .0007 .0009 .0009 .0009 .0005 .0002 .0007 .0007	0.3266         0           0.6915         0           0.3990         0           0.3476         0           0.4709         0           0.3565         0           0.6002         0           0.3021         0           0.5206         0           0.4121         0           0.6402         0           0.7413         0           0.9367         0		00008 0.0008 0.0003 0.0003 0.0003 0.00043 0.00043 0.00042 0.00048 0.00048 0.00046 0.00018 0.00014 0.00014 0.00014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 0.0014 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0.0029 0.0034 0.0022 0.0026 0.0024	0.0001 0.0002 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.005	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850 1.3320	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0330 0.0320 0.0340 0.0260 0.0270 0.0230	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0022 0.0022 0.0022 0.0025 0.0052 0.0052	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730	0.0074 0.0671 0.0058 0.0077 0.0088 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0070
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S_023_5401_JUNE28 M1S0255401JULY4 M1S0255401JULY11 M1S027R5401JULY13 M1S028A5401JULY13 M1S_028B_5401_AUG15 M1S_028B_5401_AUG15 M1S_028B_5401_AUG14 M1S_30B_5401_AUG1 M1S_30B_5401_AUG14 M1S_30B_5401_AUG14 M1S_30D_5401_AUG14 M1S_30D_5401_AUG14 M1S_30D_5401_AUG12 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32A_5401_AUG 25	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 0.6460 0.4650	0.0001 0.0028 0.0014 0.0016 0.0003 0.0003 0.0003 0.0275 0.0189 0.0276 0.029 0.0318 0.0399	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180	10990.0000 633.3000 1090.0000 1428.0000 433.4000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1236 0.1095 0.0994	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0001 0.0006 0.0007 0.0003 0.0002 0.0017 0.0011 0.0010	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0055 0.0050 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0011 0.0058	0.0007 0.0002 0.0003 0.0003 0.0001 0.0001 0.0004 0.0009 0.0010 0.0003 0.0009 0.0003 0.0009	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 24.4600 25.7000	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0134 0.0056 0.0056 0.0057 0.0139 0.0123 0.0071 0.0084 0.0084	0.0010 0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 1 0.0200 2 0.0310 5 0.0200 2 0.0200 2 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0.0014           0.0228         0.0228           0.0238         0.00162           0.03324         0.00133           0.0133         0.0122           0.0122         0.00122	00002 0.000 00003 0.0000 00001 0.0001 00001 0.0003 00001 0.0001 00001 0.0001 00001 0.0002 00001 0.0001 00001 0.0001 00001 0.0001 00001 0.0001 00001 0.0001 00001 0.0000 00001 0.00000 00001 0.00000 00001 0.00000 00001 0.00000 00001 0.00000000 00001 0.00000 00001 0.00000 00001 0.00000 00001 0.0000000000000000000000000000000	1 0.0097 1 0.0098 4 0.0127 1 0.0124 1 0.0211 5 0.0133 4 0.0049 9 0.0045 7 0.0037 0 0.0049 2 0.0038 2 0.0064 1 0.0056 9 0.0058	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1430 0.1630 0.1630	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125 0.0028 0.0056 0.0029 0.0034 0.0022 0.0026 0.0024	0.0001 0.0002 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0001 0.0001 0.0001 0.0000	0.0025 0.0110 0.0121 0.0156 0.0068 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850 1.3320	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0320 0.0320 0.0320 0.0340 0.0270 0.0270 0.0230 0.0240	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0022 0.0022 0.0025 0.0020 0.0055 0.0055 0.0055 0.0055	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.9950 2.9640 1.9670 1.9730 2.2340	0.0074 0.0074 0.00671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S_023_5401_JUNE28 M1S0255401JULY4 M1S02655401JULY11 M1S027R5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S_028B_5401_AUG15 M1S_030A_5401_AUG11 M1S_30B_5401_AUG1 M1S_30C_5401_AUG14 M1S_30C_5401_AUG14 M1S_30D_5401_AUG15 M1S_31A_5401_AUG22 M1S_31B_5401_AUG 22 M1S_32B_5401_AUG 25 M1S_32B_5401_AUG 25	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.6460 0.4650 0.1000	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0399 0.0007 0.0275 0.0189 0.0276 0.0209 0.0318 0.0136 0.0136 0.0136	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.00023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180	10990.0000 633.3000 1090.0000 1428.0000 433.4000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1201 0.1888 0.1236 0.1095 0.0994 0.1269	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0003 0.0003 0.0006 0.0007 0.0003 0.0002 0.0017 0.0011	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0111 0.0065 0.0065 0.0065	0.0007 0.0002 0.0003 0.0002 0.0003 0.0001 0.0001 0.0004 0.0009 0.0009 0.0009 0.0009 0.0009 0.0009 0.0009	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 69.5400 41.2400 19.8100 24.4600 25.7000 9.4930	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0036 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084 0.0021 0.0036 0.0001	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0020 0.0010 0.0010 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0.9367         0           0.8833         0           1.0440         0		00008 0.00008 0.00003 0.00003 0.00003 0.000042 0.00042 0.00048 0.00006 0.00006 0.00006 0.000018 0.000018 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.00019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 0.000019 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1.3320 1.5700	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0100 0.0330 0.0320 0.0340 0.0260 0.0270 0.0230 0.0240 0.0250	0.0050 0.0035 0.0046 0.0069 0.0020 0.0020 0.0022 0.0025 0.0020 0.0015 0.0055 0.0055 0.0075 0.0084 0.0218	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730 2.2340 2.3170	0.0074 0.0071 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0070 0.0110
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S026A5401JULY11 M1S027R5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG15 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32A_5401_AUG 25 M1S_32A_5401_AUG 23	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17 170.69	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.4650 0.4650 0.1000 2.5810	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0039 0.0003 0.0276 0.0189 0.0276 0.0209 0.0318 0.0136 0.0105 0.0105	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0042	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180 3.1130	10990.0000 633.3000 1090.0000 1428.0000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200 31.6600	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1201 0.1201 0.1888 0.1236 0.1095 0.0994 0.1269 0.1052	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0005 0.0005 0.0005 0.0007 0.0006 0.0007 0.0001 0.0011 0.0011 0.0010 0.0011	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0111 0.0058 0.0065 0.0061	0.0007 0.0002 0.0003 0.0003 0.0001 0.0001 0.0004 0.0004 0.0009 0.0010 0.0009 0.0009 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 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     00023         0.0           00043         0.0           00042         0.0           00048         0.0           00026         0.0           0018         0.0           0230         0.0           02219         0.0           00228         0.0           0238         0.0           0238         0.0           0324         0.0           03133         0.0           0122         0.0           0042         0.0           00188         0.0	00002 0.000 00003 0.000 00001 0.0003 00001 0.0003 00002 0.002 00001 0.000 00001 0.000	1 0.0097 1 0.0098 4 0.0127 1 0.0121 5 0.0133 4 0.0049 9 0.0045 7 0.0037 0 0.0049 2 0.0058 1 0.0058 1 0.0058 3 0.0101 1 0.0045	1.0860 1.9990 0.2337 0.2140 0.3800 0.4293 0.1887 0.2703 0.0764 0.1235 0.1285 0.1430 0.1674 0.1630 0.2063 0.1682 0.2055	0.0007 0.0032 0.0020 0.0014 0.0015 0.0125 0.0028 0.0029 0.0034 0.0022 0.0026 0.0024 0.0010 0.0015	0.0001 0.0002 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0000 0.0000 0.0001 0.0000 0.00001 0.0000 0.0000	0.0025 0.0110 0.0121 0.0126 0.0068 0.0095 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058 0.0028 0.0028	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.5850 1.3320 1.5700 1.4540	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0320 0.0320 0.0320 0.0260 0.0270 0.0240 0.0250 0.0270	0.0050 0.0035 0.0046 0.0069 0.0020 0.0029 0.0022 0.0025 0.0025 0.0075 0.0084 0.0218 0.0243 0.0129	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730 2.2340 2.3170 1.4730	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074 0.0035 0.0092 0.0070 0.0110 0.0074 0.0075 0.0074
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0254501JULY14 M1S026A5401JULY11 M1S027R5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S_028B_5401_AUG15 M1S_03B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG12 M1S_31B_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32B_5401_AUG 25 M1S_33B_5401_AUG 23 M1S_33B_5401_AUG 23	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17 170.69 160.64	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.6460 0.4650 0.1000 2.5810 1.5590	0.0001 0.0028 0.0014 0.0016 0.0003 0.0003 0.0003 0.0039 0.0003 0.0275 0.0189 0.0276 0.029 0.0318 0.0136 0.01053	0.0054 0.0064 0.0031 0.0049 0.0048 0.0041 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0042 0.0042	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180 3.1130 1.2750	10990.0000 633.3000 1090.0000 1428.0000 1428.0000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200 31.6600 31.0800	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1574 0.1201 0.1888 0.1236 0.1095 0.0994 0.1269 0.1052 0.1258	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0009 0.0005 0.0005 0.0005 0.0007 0.0003 0.0001 0.0011 0.0010 0.0011 0.0010 0.0012	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0050 0.0050 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0066 0.0084 0.0111 0.0058 0.0065 0.0061 0.0065	0.0007 0.0002 0.0003 0.0003 0.0001 0.0001 0.0004 0.0004 0.0004 0.0009 0.0010 0.0003 0.0009 0.0009 0.0005 0.0006 0.0006	183.1000 63.1100 67.2300 79.6600 22.7200 38.7900 32.5600 23.5200 31.0000 12.1900 41.2400 19.8100 24.4600 25.7000 9.4930 43.3000 29.5400	0.0028 0.0103 0.0288 0.0162 0.0108 0.0045 0.0043 0.0034 0.0056 0.0067 0.0139 0.0123 0.0071 0.0084 0.0001 0.0001 0.0001 0.0001	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0200 1 0.0200 2 0.0310 5 0.0200 2 0.0310 5 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1 0.0200 1	18.2000 0.9 9.2280 0.5 52.0000 0.7 7.3600 0.3 25.5100 0.0 19.1200 0.0 19.1100 0.0 19.1100 0.0 19.1100 0.0 19.1100 0.0 19.1100 0.0 11.1800 0.0 11.1800 0.0 11.37400 0.0 11.37400 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0 11.500 0.0	.0007 .0007 .0007 .0015 .0015 .0016 .0004 .0007 .0009 .0009 .0005 .0002 .0007 .0007 .0014 .0006 .00012 .00012	0.3266         0           0.6915         0           0.3990         0           0.3476         0           0.4709         0           0.3565         0           0.4907         0           0.6002         0           0.3021         0           0.5206         0           0.4421         0           0.4421         0           0.4421         0           0.7413         0           0.9367         0           0.8833         0           1.0440         0           0.1881         0		00008 0.0008 0.0003 0.0003 0.0003 0.0003 0.00042 0.00042 0.00048 0.00046 0.00066 0.00066 0.00066 0.00066 0.00066 0.00066 0.00018 0.00018 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.000113 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 0.00014 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0.3800 0.4293 0.1887 0.2703 0.0764 0.1233 0.1285 0.1285 0.1243 0.1674 0.1630 0.2063 0.1682 0.2025 0.2025 0.2025	0.0007 0.0032 0.0020 0.0014 0.0011 0.0005 0.0125 0.0028 0.0029 0.0029 0.0029 0.0024 0.0018 0.0018 0.0015 0.0015	0.0001 0.0002 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0002 0.0001 0.0001	0.0025 0.0110 0.0121 0.0126 0.0068 0.0095 0.0095 0.0095 0.0159 0.0203 0.0146 0.0101 0.0158 0.0130 0.0071 0.0058 0.0128 0.0128 0.0137 0.0128	0.4480 0.3880 0.4510 0.4300 0.6610 0.3010 0.6020 0.3740 0.8290 1.1440 0.9990 1.4960 1.5850 1.3320 1.5700 1.4520 1.6290	0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0430 0.0100 0.0320 0.0320 0.0270 0.0230 0.0240 0.0150 0.0270 0.0150 0.0270	0.0050 0.0035 0.0046 0.0069 0.0035 0.0020 0.0029 0.0022 0.0025 0.0025 0.0075 0.0084 0.0218 0.0243 0.0129 0.0137	0.0008 0.0004 0.0005 0.0001 0.0003 0.0002 0.0001 0.0004 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0005 0.0001	42.6100 31.1900 29.1300 14.8700 12.1800 12.4900 5.6360 6.3390 3.6920 2.6020 2.1590 2.3950 2.9640 1.9670 1.9730 2.23470 2.23170 1.4730 1.4560	0.0074 0.0671 0.0058 0.0077 0.0088 0.0104 0.0070 0.0110 0.0030 0.0074 0.0092 0.0070 0.0110 0.0070 0.0075 0.0075 0.0071
	M1S_022_5401_JUNE27 M1S_023_5401_JUNE28 M1S0245401JULY3 M1S0255401JULY4 M1S026A5401JULY11 M1S027R5401JULY13 M1S028A5401JULY19 M1S_028B_5401_AUG15 M1S029A5401AUG2 M1S_30A_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG1 M1S_30B_5401_AUG15 M1S_31A_5401_AUG 22 M1S_31B_5401_AUG 22 M1S_32A_5401_AUG 25 M1S_32A_5401_AUG 23	858.93 11386.03 858.64 1304.11 1741.89 634.58 293.22 232.12 148.39 255.66 106.88 222.36 214.01 207.83 184.77 164.33 126.17 170.69	4.3970 11.9700 5.0190 6.2130 6.2900 17.1000 1.7890 2.8160 3.9900 4.7830 0.2010 4.5240 5.1430 4.1160 0.4650 0.4650 0.1000 2.5810	0.0001 0.0028 0.0014 0.0016 0.0013 0.0003 0.0003 0.0003 0.00275 0.0189 0.0276 0.0290 0.0318 0.0136 0.0105 0.0105 0.0053 0.0192 0.0221	0.0054 0.0064 0.0031 0.0049 0.0048 0.0011 0.0046 0.0033 0.0023 0.0004 0.0011 0.0079 0.0052 0.0042 0.0042 0.0042	0.1760 0.3250 1.4840 15.6400 11.6300 50.0900 8.2210 8.1600 6.8260 4.5390 5.0050 4.6410 6.8080 2.7100 2.6800 3.7180 3.1130	10990.0000 633.3000 1090.0000 1428.0000 158.6000 105.0000 47.3900 121.0000 20.4500 33.7700 48.9200 71.9000 64.6400 43.6300 25.3200 31.6600	0.0766 0.0614 0.0840 0.0523 0.0460 0.2101 0.0687 0.1517 0.0943 0.1201 0.1201 0.1888 0.1236 0.1095 0.0994 0.1269 0.1052	0.0012 0.0009 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	0.0007 0.0011 0.0006 0.0012 0.0005 0.0005 0.0005 0.0007 0.0006 0.0007 0.0001 0.0011 0.0011 0.0010 0.0011	0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010	0.0040 0.0045 0.0029 0.0050 0.0057 0.0057 0.0040 0.0060 0.0044 0.0022 0.0101 0.0065 0.0060 0.0084 0.0111 0.0058 0.0065 0.0061	0.0007 0.0002 0.0003 0.0003 0.0001 0.0001 0.0004 0.0004 0.0009 0.0010 0.0009 0.0009 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 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