Department of Energy
Washington, DC 20585

Puerto Rico Electric Power Authority
Regarding Transmission and Distribution Facilities

Order No. 202-25-2F

Pursuant to the authority vested in the Secretary of Energy (Secretary) by section 202(c) of the Federal Power Act (FPA)[1] and section 301(b) of the Department of Energy (DOE or Department) Organization Act,[2] and for the reasons set forth below, I hereby determine that a statutory emergency continues to exist in Puerto Rico due to a sudden increase in demand for electric energy, or a shortage of electric energy or of facilities for the transmission and distribution of electric energy, and other causes. Issuance of this Order will meet the emergency and serve the public interest.

BACKGROUND

Order No. 202-25-2, issued pursuant to FPA section 202(c) on May 16, 2025, required vegetation management to be performed on the Specified Transmission Facilities, as described in the attachment "Order No. 202-25-2 Specified Transmission Resources," to ensure their operational availability. Specifically, I determined that an emergency existed in Puerto Rico and that Order No. 202-25-2 was necessary to best meet the emergency and serve the public interest given the emergency nature of the expected load stress, the responsibility of the Puerto Rico Electric Power Authority (PREPA) to ensure maximum reliability on its system, and the ability of PREPA to ensure the operational availability of transmission facilities to meet load requirements.[3] Order Nos. 202-25-2, 202-25-2A, 202-25-2B, 202-25-2C, 202-25-2D, and 202-25-2E issued pursuant to FPA Section 202(c) each required PREPA and its agents to perform vegetation management on the Specified Transmission Facilities for 90 days, through August 14, 2025, November 12, 2025, February 10, 2026, May 11, 2026, August 9, 2026, and November 7, 2026, respectively. I noted, among other risks, the threat posed

[1] 16 U.S.C. § 824a(c).
[2] 42 U.S.C. § 7151(b).
[3] *P.R. Elec. Power Auth.*, DOE Order No. 202-25-2, at 3 (May 16, 2025).

to system reliability by overgrown vegetation, recognizing that transmission lines were being operated with up to 70% derating to avoid failures from sagging due to vegetation.[4] I also pointed out that vegetation control on the transmission and distribution system rights-of-way is one of the main causes of power failures.[5]

In Order No. 202-25-2A, I determined that the emergency conditions described in Order No. 202-25-2 were still present. Between May 16, 2025, and July 28, 2025, only 38 miles of transmission lines were cleared of vegetation.[6] In Order No. 202-25-2A, I directed PREPA and its agents to perform vegetation management and asset management to ensure operational availability of the Specified Transmission Facilities.[7] I also increased the number of Specified Transmission Facilities to include 38 kV transmission lines as described in the attachment "Order No. 202-25-2A Additional Specified Transmission Facilities."[8] Order No. 202-25-2A expired on November 12, 2025. That same day, I issued Order No. 202-25-2B, pursuant to FPA section 202(c).

In Order No. 202-25-2B, I determined that the emergency conditions described in Order Nos. 202-25-2 and 202-25-2A were still present.[9] Between July 28, 2025, through October 21, 2025, only 82 miles of transmission lines were cleared of vegetation.[10] Additionally, I directed PREPA and its agents to perform vegetation management consistent with good utility practice on at least 400 total miles by February 10, 2026, consisting of 38 kV, 115 kV, and 230 kV rights-of-way and on the covered lines, with 130 total miles to be completed by December 29, 2025.[11]

In Order No. 202-25-2C, I determined that the emergency conditions described in Order Nos. 202-25-2, 202-25-2A, and 202-25-2B were still present.[12] Additionally, I directed PREPA and its agents to perform vegetation management consistent with good utility practice on an additional 400 miles by May 11, 2026, consisting of 38 kV, 115 kV, and 230 kV rights-of-way and on the covered lines with an additional 130 miles to be completed by March 27, 2026.[13]

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[4] *Id.* at 1.
[5] *Id*.
[6] *P.R. Elec. Power Auth.*, DOE Order No. 202-25-2A, at 1 (Aug. 14, 2025).
[7] *Id.* at 1–2.
[8] *Id.* at 3.
[9] *P.R. Elec. Power Auth.*, DOE Order No. 202-25-2B, at 1 (Nov. 12, 2025).
[10] *Id.* at 2.
[11] *Id.* at 4, Ordering Paras. B & C.
[12] *P.R. Elec. Power Auth.*, DOE Order No. 202-25-2C, at 1, (Feb. 10, 2026).
[13] *Id.* at 5.

In Order No. 202-25-2D, I determined that the emergency conditions described in Order Nos. 202-25-2, 202-25-2A, 202-25-2B, and 202-25-2C were still present. As such, I expanded the Specified Transmission and Distribution Facilities list to include all of the transmission and distribution lines in Puerto Rico.

In Order No. 202-25-2E, I determined that the emergency conditions described in Order Nos. 202-25-2, 202-25-2A, 202-25-2B, 202-25-2C, and 202-25-2D were still present. As such, I expanded the Specified Transmission and Distribution Facilities list to include all of the transmission and distribution lines in Puerto Rico. I have determined this work is critical for improving system reliability.

CONTINUING EMERGENCY CONDITIONS

The emergency conditions that necessitated the issuance of Order Nos. 202-25-2, 202-25-2A, 202-25-2B, 202-25-2C, 202-25-2D, and 202-25-2E continue. Puerto Rico's electric grid is facing an energy crisis, given unstable reserve capacity and widespread blackouts. Factors contributing to the emergency conditions include decades of deferred maintenance, the bankruptcy of the system owner and operator, as well as devasting hurricanes and earthquakes. These factors have combined to significantly deteriorate the Puerto Rican electric grid, resulting in repair times that take years rather than months.

Given the extended nature of the emergency, I will continue to assess the state of the Puerto Rican electric grid for the need for continued emergency orders until the emergency conditions are no longer present.

The risk of adverse events remains high due to failure to meet prior directives in clearing overgrown vegetation. As of October 22, 2026, 2,186 miles of transmission and distribution lines had been cleared of vegetation. Vegetation management efforts are subject to numerous delays caused by funding authorizations, contract disputes, weather, and environmental permitting review requirements. As such, Puerto Rico continues to experience severely inadequate transmission line ratings and a high number of transmission disruptions. Similarly, energy disruptions in the distribution system continue in frequency and duration due to slowing or stalled progress in vegetation management efforts. Vegetation management is needed along distribution lines in the same way it is needed along transmission lines.

Estimates indicate that the full vegetation clearing of the 115 kV and 230 kV transmission right-of-way could lead to a total reduction of over 80% of adverse events. This would avoid 1.76 million customer interruptions and over 1.2 billion customer minutes of interruption. Once initial vegetation management is complete, with ongoing maintenance clearing, improvement in service is anticipated due to reduced incidents caused by vegetation.[14]

In Order No. 202-25-2B, the Department of Energy required PREPA and its agents to clear 130 miles of transmission line by December 29, 2025, or explain why this directive could not be completed.[15] PREPA's agent reported that it could not comply due to environmental permitting and review requirements, funding questions, and the inaccuracy of mapping. Ongoing non-compliance warrants issuance of this Order to ensure vegetation management is performed, as required.

As the Puerto Rico Energy Czar stated in his letter, "The record developed during 2025 and 2026 demonstrates that DOE's emergency actions have provided essential and targeted operational flexibility and have functioned as complimentary stabilization tools; preserving generation that otherwise could become unavailable during periods of critically low reserves, while accelerating critical work needed to reduce transmission constraints, address vegetation-related reliability risks, and strengthen the overall reliability and resilience of Puerto Rico's electric grid."[16] "The transmission-related Section 202(c) directives therefore address a distinct but interdependent component of the same emergency; reducing the probability that vegetation contacts, constrained corridors, or degraded transmission conditions will initiate or amplify outages."[17]

[14] Technical information provided by LUMA Energy, LLC to the Department of Energy via email on May 14, 2025.

[15] DOE Order No. 202-25-2B, Ordering Paras. B & C.

[16] Letter from Puerto Rico Energy Czar on Continued Importance of Emergency Orders Issued Pursuant to Section 202(c) of the Federal Power Act for the Stabilization and Reliability of Puerto Rico's Electric System; September 25, 2026.

[17] *Id.* at 5.

While vegetation management is a key first step for improving operational availability of Specified Transmission Facilities, the repair or replacement of degraded transmission and distribution facilities is also necessary. Delays in the vegetation management program have delayed completion of other emergency improvements necessary to address the poor-quality metrics of voltage and frequency regulation.[18] These risks to the electric system threaten public safety, healthcare, residential customers, industry, commerce, telecommunications, and other essential critical services. Accelerated asset management is therefore needed to increase transmission and distribution facility reliability, address derating and oscillations of the lines, and decrease the likelihood of unplanned failures to electricity transmission.

As outlined in this Order, I am requiring operational limitations to ensure—to the maximum extent practicable—adherence to applicable environmental laws and regulations. I have also imposed reporting requirements to ensure transparency and timely implementation of the directives contained within this Order. The reporting required under my prior Orders (Order Nos. 202-25-2, 202-25-2A, 202-25-2B, 202-25-2C, 202-25-2D, 202-25-2E) reflects continued delay that threatens the operational availability of the Specified Transmission Facilities. As the emergency conditions continue to exist, I hereby issue Order No. 202-25-2F to permit vegetation management at the Specified Transmission and Distribution Facilities as described in Attachments A and B to this Order, as well as asset management to ensure operational availability of the Specified Transmission and Distribution Facilities, for an additional 90-day period through February 5, 2027.

Pursuant to FPA section 202(c)(4)(B),[19] DOE has consulted with the primary Federal agencies with expertise in the environmental interests protected by laws or regulations that may conflict with this Order. These agencies did not submit conditions for inclusion in this Order. To the extent that any permitting, procedures, inspections, or other requirements would further delay the vegetation management necessary to ensure operational availability of the Specified Transmission and Distribution Facilities identified in this Order, I hereby determine that such requirements would prevent this Order from adequately addressing the emergency necessitating its issuance.[20]

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[18] *See* Alexandre Nassif, *Inst. of Elec. Eng'rs, IEEE Power & Energy Soc'y Panel Discussion: Managing distribution resources: the LUMA perspective* (July 20, 2023).

[19] 16 U.S.C. § 824a(c)(4)(B).

[20] *Id.*; *see also id*. § 824a(c)(3) ("To the extent any omission or action taken by a party, that is necessary to comply with an order issued under this subsection, including any omission or action taken to voluntarily comply with such order, results in noncompliance with, or causes such party to not comply with, any Federal, State, or local environmental law or regulation, such omission or action shall not be considered a violation of such environmental law or regulation, or subject such party to any

requirement, civil or criminal liability, or a citizen suit under such environmental law or regulation.").

ORDER

FPA section 202(c)(1) provides that, whenever the Secretary determines "that an emergency exists by reason of a sudden increase in the demand for electric energy, or a shortage of electric energy or of facilities for the generation or transmission of electric energy . . . or other causes," the Secretary has the authority "to require by order . . . such generation, delivery, interchange, or transmission of electric energy as in his judgment will best meet the emergency and serve the public interest."[21] This statutory language constitutes a specific grant of authority to the Secretary to require vegetation management and asset management to ensure operational availability of the Specified Transmission and Distribution Facilities when the Secretary has determined that such operation will best meet an emergency.

As described above, the emergency conditions supporting the issuance of Order Nos. 202-25-2, 202-25-2A, 202-25-2B, 202-25-2C, 202-25-2D, and 202-25-2E continue. If vegetation management and asset management is not performed at the Specified Transmission and Distribution Facilities, this could result in the loss of power, affecting public safety, healthcare, residential customers, industry, commerce, telecommunications, and other essential critical services. Given the emergency nature of the expected load stress, the responsibility of PREPA and its agents to ensure maximum reliability on the system, and the ability of PREPA and its agents to ensure the operational availability of transmission and distribution facilities to meet load requirements, I have determined that, under the conditions specified below, the operational availability of the Specified Transmission and Distribution Facilities is necessary to best meet the emergency and serve the public interest for the purposes of FPA section 202(c). This determination is based on the expected electricity demand, the shortage of electric energy, the shortage of facilities for the transmission of electric energy, and other causes.

Based on my determination that a statutory emergency continues to exist in Puerto Rico, I hereby order PREPA and its agents to perform vegetation management and asset management to ensure operational availability of the Specified Transmission and Distribution Facilities under the specified circumstances:

A. Beginning November 8, 2026, PREPA and its agents are directed to perform vegetation management, including vegetation clearing to re-establish a right-of-way, and asset management, including component refurbishment and

[21] 16 U.S.C. § 824a(c)(1). Although the text of FPA section 202(c) grants this authority to "the Commission," section 301(b) of the Department of Energy Organization Act transferred this authority to the Secretary of the Department of Energy. *See* 42 U.S.C. § 7151(b).

replacement, to ensure operational availability of the Specified Transmission and Distribution Facilities.[22] Covered resources are limited to the facilities necessary to meet the emergency and serve the public interest, and, to the maximum extent practicable, is consistent with any applicable Federal, State, or local environmental law or regulation and minimizes any adverse environmental impacts.

B. By February 5, 2027, PREPA and its agents are directed to perform vegetation management, consistent with good utility practice for at least an additional 400 miles, consisting of 38 kV, 115 kV, and 230 kV rights-of-way and to include lines, towers and any supporting facilities of 38 kV, 115 kV, and 230 kV transmission systems.

C. If PREPA and its agents are unable to comply with the request to clear at least an additional 400 miles of the identified lines by February 5, 2027, PREPA is directed to provide the Department of Energy (via AskCR@hq.doe.gov) with a report concerning the measures it has taken and is planning to take to ensure that at least an additional 400 miles are cleared as soon as possible. PREPA shall also provide such additional information regarding its compliance with the conditions of this Order, in each case as requested by the Department of Energy from time to time.

D. Every two weeks on Wednesdays, PREPA and its agents shall report all dates on which vegetation management was performed to the Department of Energy (via AskCR@hq.doe.gov). Each biweekly report shall continue to provide complete information using the Department of Energy 202(c) Reporting Templates submitted to PREPA and its agents on July 8, 2025.

E. This Order shall be effective on November 8, 2026, through February 5, 2027.

Issued in Washington, D.C. on this 6th day of November 2026.

Chris Wright

Chris Wright
Secretary of Energy

Attachment A: Order No. 202-25-2F Specified Transmission Facilities
Attachment B: Order No. 202-25-2F Specified Distribution Facilities

[22] The complete Specified Transmission and Distribution Facilities are listed in Attachment A and Attachment B.

Attachment A:
Order No. 202-25-2F Specified Transmission Facilities

Line Number	Voltage Level
7500	38
8900	38
7300	38
2300	38
8200	38
3900	38
1974	38
0100	38
10500	38
6900	38
3100	38
3700	38
2100	38
37200	115
4800	38
7100	38
7200	38
2800	38
39100	115
0700	38
3000	38
2400	38
6500	38
5600	38
14900	38
41200	115
36800	115
0400	38
15900	38
8500	38
0200	38
14400	38
0600	38
10900	38
9300	38
5200	38
3200	38

0300	38
2200	38
7900	38
17200	38
37400	115
1900	38
2500	38
11100	38
3600	38
10000	38
16300	38
10600	38
5000	38
5100	38
36200	115
13800	38
3400	38
9800	38
4100	38
16500	38
4400	38
6400	38
7000	38
10700	38
17900	38
14700	38
40300	115
39000	115
36400	115
13400	38
13700	38
12600	38
0500	38
0900	38
5300	38
13600	38
14100	38
36900	115
10200	38
38200	115
36100	115

14000	38
6600	38
1500	38
16600	38
15500	38
8100	38
3300	38
1000	38
5800	38
5700	38
15600	38
50900	230
2000	38
7400	38
0800	38
36300	115
39800	115
50300	230
51300	230
38300	115
38900	115
50700	230
50200	230
36500	115
37800	115
12500	38
15700	38
37000	115
42000	115
40400	115
51000	230
38400	115
38500	115
38600	115
38700	115
38800	115
37500	115
38100	115
50500	230
50100	230
36600	115

36700	115
41400	115
37100	115
50400	230
41300	115
40200	115
51100	230
40100	115
3500	38
13300	38
37300	115
37700	115
2600	38
39700	115
9500	38
5400	38
37600	115
17600	38
3800	38
39900	115
41000	115
4000	38
2700	38
14800	38
39600	115
1200	38
40800	115
8300	38
1700	38
1300	38
40900	115
4600	38
1600	38
37900	115
38000	115
15400	38
18400	38
18800	38
11200	38
19400	38
18000	38

12300	38
19500	38
1800	38
41500	115
7800	38
17400	38
15000	38
4500	38
6800	38
6000	38
17800	38
18300	38
4700	38
41100	115
51200	230
4300	38
9600	38
9900	38
50800	230
6100	38
10300	38
0030	38
8000	38
9400	38
9200	38
11000	38
10800	38
14300	38
15200	38
4900	38
9000	38
1400	38
5900	38
6700	38
41600	115
16700	38
41700	115
13200	38
16000	38
1100	38
9100	38

40500	115
7700	38
1326	38
13500	38
11400	38
17700	38
11500	38
11600	38
2900	38
40600	115
17500	38
4200	38
15300	38
10100	38
16800	38
9700	38
20100	38
6300	38
41800	115
11700	38
11800	38
39500	115
18100	38
17300	38
42100	115
8600	38
8400	38
18200	38
50600	230
13100	38
8700	38
6200	38
9382	38
5500	38
18500	38
19100	38
39300	115
18600	38
12900	38
2479	38
1387	38

39400	115
8800	38
16200	38
1164	38
17100	38
40000	115
17000	38
16900	38
39200	115
16400	38
19900	38
2373	38
42400	115
19600	38
3686	38
2081	38
16100	38
11,100	38
4402	115
10400	38
40700	115
42500	115
9385	38

Attachment B:
Order 202-25-2F Specified Distribution Facilities

Line Number	Low Voltage Level	High Voltage Level
7403-02	2.4	8.32
7403-01	2.4	4.16
7403-03	2.4	4.16
1206-02	7.62	13.2
7003-01	2.4	4.16
6703-01	4.16	7.2
1717-03	7.62	13.2
1719-18	7.62	13.2
8008-01	2.4	8.32
9403-03	2.4	4.16
1909-08	7.62	13.2
9801-03	4.8	8.32
6201-01	2.4	4.16
8104-02	2.4	8.32
1618-01	2.4	4.16
1012-08	2.4	4.16
1012-07	2.4	4.16
1338-02	2.4	4.16
9703-03	4.8	8.32
1718-02	7.62	13.2
9605-02	4.8	8.32
7503-05	2.4	13.2
7402-01	2.4	4.16
7402-02	2.4	4.16
7402-03	2.4	4.16
7404-06	2.4	4.16
7402-04	2.4	4.16
3004-01	4.8	8.32
1716-03	7.62	13.2
7601-03	2.4	4.16
1012-09	2.4	4.16
1013-13	7.62	13.2
1330-01	2.4	4.16
7503-03	2.4	4.16

1710-04	7.62	13.2
1909-09	7.62	13.2
1602-05	2.4	4.16
1204-02	2.4	13.2
4402-01	7.62	13.2
6603-03	4.16	13.2
7008-05	2.4	13.2
7008-04	2.4	13.2
1806-03	7.62	13.2
3501-02	4.8	8.32
3403-01	2.4	8.32
1204-05	7.62	13.2
4006-02	7.62	13.2
4006-04	7.62	13.2
9801-01	4.8	8.32
2604-01	4.8	13.2
1107-04	2.4	4.16
1101-01	2.4	4.16
1101-02	2.4	4.16
7503-02	2.4	4.16
7503-04	2.4	4.16
1907-05	7.62	13.2
3006-05	2.4	13.2
6802-02	2.4	13.2
6802-04	2.4	13.2
9003-06	4.8	8.32
1114-01	7.62	13.2
8010-01	4.16	8.32
2005-10	7.62	13.2
5401-02	2.4	4.16
1014-16	7.62	13.2
9003-05	4.8	8.32
9201-01	2.4	8.32
1718-03	7.62	13.2
9802-04	4.8	8.32
3101-01	2.4	4.16
7402-05	2.4	4.16
5003-02	2.4	4.8
5005-03	2.4	4.16
1907-04	7.62	13.2
1907-03	7.62	13.2

1204-03	7.62	13.2
2404-08	7.62	13.2
3406-02	4.8	8.32
1346-04	7.62	13.2
2006-03	7.62	13.2
4101-04	2.4	4.16
1619-01	7.62	13.2
1011-01	2.4	4.16
7601-04	2.4	8.32
7602-05	2.4	4.16
8104-01	2.4	4.16
8801-04	4.8	8.32
8302-04	2.4	8.32
1717-01	2.4	13.2
5305-03	7.62	13.2
2201-03	4.8	8.32
5004-07	2.4	13.2
1709-03	7.62	13.2
2603-08	4.8	13.2
7801-01	2.4	4.16
9503-05	7.62	13.2
7505-05	2.4	13.2
1713-05	7.62	13.2
2404-06	7.62	13.2
5018-04	7.62	13.2
2605-02	7.62	13.2
1336-09	7.62	13.2
5005-02	2.4	4.16
2604-03	4.8	13.2
8301-01	2.4	4.16
9601-02	4.16	8.32
7301-02	2.4	4.16
7301-01	2.4	4.16
8002-02	2.4	4.16
8002-04	2.4	4.16
8002-03	2.4	4.16
8002-05	2.4	4.16
8002-01	2.4	4.8
7104-06	2.4	4.16
1012-10	2.4	4.16
2305-04	4.8	13.2

5012-01	2.4	4.16
7901-01	2.4	4.16
1709-02	7.62	13.2
7301-04	2.4	4.16
3016-03	7.62	13.2
1620-04	7.62	13.2
4201-03	2.4	4.16
5018-03	2.4	13.2
4201-02	2.4	4.16
4602-01	2.4	4.16
9101-04	4.8	8.32
9207-08	2.4	13.2
2901-02	4.8	8.32
2302-03	7.62	13.2
4504-02	2.4	4.16
1011-03	2.4	4.16
1709-05	7.62	13.2
8004-02	2.4	4.16
4601-04	2.4	4.16
7003-05	2.4	4.16
7003-03	2.4	4.16
7003-02	2.4	4.16
1710-01	2.4	13.2
7011-03	2.4	13.2
7301-05	2.4	4.16
8104-05	2.4	8.32
5602-01	7.62	13.2
2179-02	7.62	13.2
8013-02	2.4	13.2
1002-02	2.4	4.16
1002-03	2.4	4.16
8010-02	2.4	8.32
1002-04	2.4	4.16
1002-01	2.4	4.16
6003-03	2.4	4.16
7008-07	2.4	13.2
8015-09	7.62	13.2
1303-01	2.4	13.2
1646-01	7.62	13.2
1303-03	7.62	13.2
5012-03	2.4	4.16

3302-02	4.8	8.32
5005-01	2.4	13.2
1336-06	7.62	13.2
1109-02	2.4	4.16
1109-04	2.4	4.16
1111-01	7.62	13.2
4002-02	2.4	4.16
7008-08	2.4	13.2
1346-06	7.62	13.2
NONE	2.4	13.2
8501-03	2.4	4.16
8501-02	2.4	4.16
8501-01	2.4	4.16
9501-01	4.16	8.32
5011-03	7.62	13.2
2603-10	7.62	13.2
5501-04	2.4	4.16
3701-04	4.8	8.32
2002-02	4.8	8.32
4401-04	2.4	4.16
7805-11	2.4	13.2
5902-02	2.4	4.16
8005-01	2.4	4.16
9202-02	4.8	8.32
1336-07	7.62	13.2
3401-03	4.8	8.32
3501-01	4.8	8.32
8011-02	2.4	4.16
4101-01	2.4	4.16
1713-03	7.62	13.2
1521-01	7.62	13.2
9501-03	4.8	8.32
3603-01	4.8	8.32
2404-05	7.62	13.2
3101-03	2.4	4.16
6015-01	7.62	13.2
8504-03	2.4	13.2
8504-01	2.4	13.2
5803-02	2.4	13.2
3014-02	2.4	4.16
8801-02	4.8	13.2

4401-02	2.4	4.16
3015-06	7.62	13.2
1801-03	7.62	13.2
3015-05	4.8	13.2
8602-03	2.4	8.32
9004-08	4.8	13.2
1330-02	2.4	4.16
1203-02	2.4	4.16
1719-15	7.62	13.2
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9001-03	4.8	8.32
9004-09	7.62	13.2
9004-10	4.8	13.2
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7011-02	2.4	13.2
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2003-01	7.62	13.2
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7303-01	2.4	4.16
9503-06	2.4	13.2
5002-03	2.4	4.16
2404-07	7.62	13.2
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9202-03	4.16	8.32
8504-02	2.4	13.2
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3007-02	4.8	8.32
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2701-01	4.8	13.2
1343-05	2.4	4.16
1646-05	7.62	13.2
3013-01	4.8	8.32
1346-01	7.62	13.2
1205-02	2.4	4.16
1908-05	7.62	13.2
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7002-01	2.4	4.16
9902-01	4.8	8.32

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2302-02	7.62	13.2
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9901-02	2.4	8.32
7301-03	2.4	4.16
1342-02	2.4	4.16
5802-03	2.4	4.16
4504-01	2.4	4.16
1602-03	2.4	4.16
5001-02	2.4	4.16
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9004-07	7.62	13.2
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3004-04	4.8	8.32
3005-03	4.8	8.32
1529-12	7.62	13.2
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1110-02	2.4	4.16
2001-03	4.8	8.32
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5019-01	2.4	4.16
1330-04	2.4	4.16
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1903-05	2.4	4.16
4003-01	7.62	13.2
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1616-14	2.4	4.16
1616-13	2.4	4.16
4401-01	2.4	4.16
1616-12	2.4	4.16
1616-11	2.4	4.16
1615-10	2.4	4.16
1617-01	2.4	4.16
1617-02	2.4	4.16
1615-09	2.4	4.16
3103-02	7.62	13.2
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1346-03	7.62	13.2
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6406-02	2.4	13.2
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1607-03	2.4	4.16
3103-05	7.62	13.2
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2301-02	4.8	8.32
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8010-03	4.16	7.2
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5501-02	2.4	4.16
8101-05	2.4	4.16

2402-03	7.62	13.2
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8001-03	2.4	4.16
8001-02	2.4	4.16
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8101-02	2.4	8.32
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6012-05	7.62	13.2
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7901-02	2.4	4.16
8007-04	4.16	8.32
8013-01	2.4	13.2
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8007-03	4.16	8.32
3405-03	2.4	8.32
1901-01	2.4	4.16
6704-03	4.16	13.2

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8007-05	4.16	7.2
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3502-01	4.8	8.32
8012-01	2.4	4.16
8101-03	2.4	8.32
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2006-04	7.62	13.2
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1707-05	2.4	4.16
8405-02	7.62	13.2
6704-02	4.16	13.2
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1707-03	2.4	4.16
1707-01	2.4	4.16
1707-02	2.4	4.16
3102-01	2.4	13.2
3470-02	4.8	8.32
1345-01	2.4	4.16
5007-02	2.4	4.16
9101-03	4.8	8.32
1924-04	2.4	4.16
1924-03	2.4	4.16
1924-02	2.4	4.16
1710-03	7.62	13.2
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2001-04	4.8	8.32
2001-02	4.8	8.32
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1924-05	2.4	4.16
1924-01	2.4	4.16

5010-06	2.4	4.16
4402-02	2.4	13.2
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2002-03	4.8	8.32
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1803-05	2.4	4.16
1803-02	2.4	4.16
1803-04	2.4	4.16
1803-03	2.4	4.16
3010-03	4.8	8.32
6501-01	2.4	4.16
5008-01	2.4	4.16
1618-03	2.4	4.16
9207-06	7.62	13.2
1734-02	2.4	4.16
4003-03	7.62	13.2
1110-03	2.4	4.16
1011-04	2.4	4.16
8302-05	2.4	8.32
7103-04	2.4	4.16
4502-02	2.4	4.16
1657-05	7.62	13.2
1710-05	2.4	13.2
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1711-04	7.62	13.2
9902-02	4.8	8.32
1607-01	2.4	4.16
1711-02	7.62	13.2
3005-02	4.8	8.32
1419-09	7.62	13.2
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1301-03	2.4	4.16
5007-03	2.4	4.16
1618-04	2.4	4.16
7005-03	2.4	4.16
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5011-02	7.62	13.2
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3601-04	4.8	8.32
1303-04	7.62	13.2

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1437-05	2.4	4.16
7201-05	2.4	4.16
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1657-03	7.62	13.2
8404-02	7.62	13.2
1909-07	7.62	13.2
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1716-01	7.62	13.2
1806-01	7.62	13.2
8014-06	7.62	13.2
7104-05	2.4	4.16
6501-04	2.4	4.16
3013-03	4.8	8.32
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1421-05	2.4	4.16
1421-04	2.4	4.16
1421-03	2.4	4.16
3401-01	4.8	8.32
1421-01	2.4	4.16
1359-08	2.4	4.16
1359-07	2.4	4.16
1327-13	2.4	4.16
1327-12	2.4	4.16
1327-11	2.4	4.16
1327-10	2.4	4.16
2501-01	2.4	4.16
1401-07	7.62	13.2
1401-06	7.62	13.2
1404-07	7.62	13.2
1418-02	2.4	4.16
1336-08	7.62	13.2
6601-04	4.16	7.2
1706-01	2.4	13.2
5016-01	7.62	13.2
3602-03	4.8	8.32
2603-07	4.8	13.2
3601-02	4.8	8.32
2601-03	4.8	8.32
2601-04	4.8	8.32

1338-04	2.4	4.16
1338-03	2.4	4.16
1338-05	2.4	4.16
1338-01	2.4	4.16
9501-02	2.4	8.32
1343-04	2.4	4.16
1801-01	7.62	13.2
1346-02	7.62	13.2
2605-01	4.8	13.2
8405-01	7.62	13.2
3103-04	4.8	13.2
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1328-01	2.4	4.16
1328-04	2.4	4.16
1801-02	7.62	13.2
6012-03	2.4	13.2
1652-05	2.4	4.16
5007-01	2.4	4.16
4601-01	2.4	4.16
1328-02	2.4	4.16
1328-05	2.4	4.16
1348-07	7.62	13.2
1328-03	2.4	4.16
1348-06	7.62	13.2
1422-03	2.4	4.16
1422-05	2.4	4.16
1424-06	7.62	13.2
1424-08	7.62	13.2
5013-03	2.4	4.16
3202-01	2.4	13.2
1327-09	2.4	4.16
1359-05	2.4	4.16
1359-06	2.4	4.16
1359-04	2.4	4.16
1359-03	2.4	4.16
1359-02	2.4	4.16
1359-01	2.4	4.16
9502-02	4.8	13.2
8301-03	2.4	8.32
7201-03	2.4	4.16
7101-02	2.4	4.16

4501-01	2.4	4.16
1342-05	2.4	4.16
1418-03	2.4	4.16
1404-06	7.62	13.2
1403-04	2.4	4.16
1115-05	7.62	13.2
1647-07	7.62	13.2
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1414-04	2.4	4.16
1414-05	2.4	4.16
1414-03	2.4	4.16
6015-02	2.4	13.2
9401-01	2.4	4.16
1119-01	7.62	13.2
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5011-01	7.62	13.2
1106-04	2.4	4.16
7302-02	2.4	13.2
1330-03	2.4	4.16
1720-08	7.62	13.2
6012-01	7.62	13.2
1719-19	7.62	13.2
9201-02	4.8	8.32
1403-03	2.4	4.16
1647-08	7.62	13.2
7802-01	2.4	4.16
4301-02	2.4	4.16
3010-01	4.8	8.32
5401-04	2.4	4.8
5403-02	2.4	4.16
4503-01	2.4	13.2
5403-01	2.4	4.16
2603-09	4.8	13.2
5401-03	2.4	4.16
9207-05	7.62	13.2
4101-02	2.4	4.16
5303-02	2.4	4.16
6002-05	2.4	4.16
5402-02	2.4	4.16

5501-01	2.4	4.16
5303-01	2.4	4.16
2601-01	4.8	8.32
3502-02	4.8	8.32
5602-02	2.4	13.2
9206-08	4.8	13.2
8015-07	7.62	13.2
1912-08	7.62	13.2
1117-11	7.62	13.2
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5602-03	7.62	13.2
5019-02	2.4	4.16
5601-02	2.4	13.2
9002-03	4.16	8.32
9001-01	4.8	8.32
6802-05	2.4	13.2
2901-03	4.8	8.32
5010-04	2.4	4.16
4201-01	2.4	4.16
4001-03	2.4	4.16
1657-01	7.62	13.2
3205-07	2.4	13.2
9801-02	4.8	8.32
2005-08	7.62	13.2
6004-02	2.4	4.16
8013-03	7.62	13.2
8801-01	4.8	8.32
1423-04	2.4	4.16
1423-03	2.4	4.16
1423-05	2.4	4.16
1423-02	2.4	4.16
1423-01	2.4	4.16
3701-03	4.8	8.32
2501-02	2.4	4.16
3014-04	2.4	4.16
2801-02	4.8	8.32
8404-03	4.8	13.2
1602-04	2.4	4.16

1343-01	2.4	4.16
1343-02	2.4	4.16
6007-02	2.4	4.16
2002-01	4.8	8.32
3102-02	2.4	13.2
1706-05	2.4	4.16
1416-02	2.4	4.16
1416-05	2.4	13.2
4301-01	2.4	4.16
6010-01	2.4	4.16
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1424-07	7.62	13.2
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7505-01	2.4	13.2
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7302-01	7.62	13.2
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1519-01	2.4	4.16
5012-02	2.4	4.16
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1647-09	7.62	13.2
2402-01	7.62	13.2
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6601-02	4.16	7.2
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5010-03	2.4	4.16
8404-04	7.62	13.2
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1420-01	7.62	13.2
3205-08	7.62	13.2
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9206-07	7.62	13.2
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4501-02	2.4	4.16
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4101-03	2.4	4.16
3205-10	7.62	13.2
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4602-04	2.4	4.16
3201-02	2.4	4.8
1301-04	2.4	4.16
1708-05	2.4	4.16
1342-01	2.4	4.16
1345-04	2.4	4.16
6010-02	2.4	4.16
1303-05	2.4	13.2
9404-01	2.4	4.16
7502-03	2.4	4.16
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6012-02	2.4	13.2
3701-01	4.8	8.32
1903-02	2.4	4.16
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4002-01	2.4	13.2
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6014-01	2.4	13.2
3701-02	4.8	8.32
1671-02	2.4	4.16
4501-05	2.4	4.16
5016-03	7.62	13.2
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45CS-01	2.4	4.16
3602-02	4.8	8.32
4602-02	2.4	4.16
5301-01	2.4	4.16
2201-02	4.8	8.32
1711-05	7.62	13.2
6801-02	2.4	4.16
8004-04	2.4	4.16
1704-02	2.4	4.16
7201-04	2.4	4.16
5302-03	2.4	4.16
7903-07	2.4	13.2
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1620-03	7.62	13.2
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2005-09	7.62	13.2
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1709-01	2.4	13.2
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4401-03	2.4	4.16
1335-05	2.4	4.16
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3401-02	4.8	8.32
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6014-02	2.4	13.2
4301-04	2.4	4.16
3014-01	2.4	4.16
3405-02	4.8	8.32
6401-02	2.4	4.16
3302-01	4.8	8.32
9105-06	7.62	13.2
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6801-01	2.4	4.16
3008-03	4.8	8.32
3601-01	4.8	8.32
5901-03	2.4	4.16

3302-03	4.8	8.32
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3302-04	4.8	8.32
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6201-03	2.4	4.16
9602-04	4.8	8.32
3101-02	2.4	4.16
6004-05	2.4	4.16
1105-01	2.4	4.16
2201-01	4.8	8.32
3801-01	2.4	4.16
1343-03	2.4	4.16
7005-01	2.4	4.16
7005-02	2.4	4.16
8101-04	2.4	8.32
6404-04	2.4	4.16
1801-05	7.62	13.2
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5304-02	2.4	4.16
1133-01	2.4	4.16
1531-05	2.4	4.16
9502-01	4.8	8.32
3406-01	4.8	8.32
4501-04	2.4	4.16
1703-02	2.4	4.16
6703-03	4.16	7.2
1420-03	7.62	13.2
1646-02	7.62	13.2
1529-15	7.62	13.2
1521-02	7.62	13.2
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7011-01	7.62	13.2
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9207-07	7.62	13.2
1110-01	2.4	4.16
1404-09	7.62	13.2

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5018-01	7.62	13.2
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5018-05	2.4	13.2
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6603-05	7.62	13.2
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1718-01	7.62	13.2
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1206-01	7.62	13.2
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1602-01	2.4	4.16
5003-03	2.4	4.8
1334-01	2.4	4.16
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9405-05	7.62	13.2
3008-01	4.16	8.32
1525-01	2.4	4.16
5011	7.62	13.2
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2701-03	4.8	8.32
5304-01	2.4	4.16
5817-02	2.4	4.16
2603-06	7.62	13.2
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6404-03	2.4	4.16
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5007-04	2.4	4.16
5007	2.4	4.16
1002-05	2.4	4.16
2001-01	4.8	8.32
3065-01	4.8	8.32
1120-09	7.62	13.2
5004-06	2.4	13.2
3065-02	4.8	8.32
1116-01	7.62	13.2
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5004-09	2.4	13.2
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1119-03	7.62	13.2
1119-02	7.62	13.2
2403-02	4.8	8.32
1345-02	2.4	4.16
9002-02	4.8	8.32
2176-01	2.4	4.16
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6401-01	2.4	4.16
7502-04	2.4	4.16
3301-01	4.8	8.32
8202-02	2.4	8.32
3405-01	4.8	8.32
3201-01	2.4	4.16
7002-02	2.4	4.16
5012-04	2.4	4.16
1526-03	2.4	4.16
1717-02	7.62	13.2
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6702-02	4.16	7.2
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9206-11	7.62	13.2
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8701-03	4.8	8.32
1620-02	7.62	13.2
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1118-10	7.62	13.2
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3601-03	4.8	8.32
5802-01	2.4	4.16
7201-02	2.4	4.16
8202-03	2.4	8.32
5001-01	2.4	4.16
6201-02	2.4	4.16

7701-01	2.4	4.16
5902-03	2.4	4.16
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8011-01	2.4	13.2
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8203-02	2.4	8.32
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6401-03	2.4	4.16
5005	2.4	4.16
1418-04	2.4	4.16
5009-01	2.4	4.16
4503-03	2.4	4.16
5008	2.4	4.16
5003-04	2.4	4.16
6303-01	2.4	4.16
1526-01	2.4	4.16
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1329-03	2.4	4.16
1335-04	2.4	4.16
1526-02	2.4	4.16
1113-01	2.4	4.16
9203-04	4.8	8.32
9902-03	4.8	8.32

7801-02	2.4	4.16
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5204-02	2.4	4.16
1336-10	7.62	13.2
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1118-09	7.62	13.2
1118-07	7.62	13.2
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5805-01	2.4	4.16
1342-03	2.4	4.16
2901-04	4.8	8.32
1437-02	2.4	4.16
5801-04	2.4	4.16
1901-02	2.4	4.16
1912-07	7.62	13.2
1310-05	2.4	4.16
1903-04	2.4	4.16
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2702-02	4.8	8.32
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6101-05	2.4	4.16
1705-01	2.4	4.16
1105-02	2.4	4.16
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1115-04	7.62	13.2
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6101-04	2.4	4.16
1104-03	2.4	4.16
1104-02	2.4	4.16
1104-01	2.4	4.16
5304-05	2.4	4.16
5802-05	2.4	4.16
1904-07	7.62	13.2
4501-03	2.4	4.16
1519-03	2.4	4.16
5304-04	2.4	4.16
1111-02	7.62	13.2
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5865-01	2.4	4.16
7101-04	2.4	4.16
9403-02	2.4	4.16
6005-02	2.4	4.16
1345-03	2.4	4.16
3103-03	7.62	13.2
8013-04	7.62	13.2
3010-02	4.8	8.32
1345-05	2.4	4.16
9401-03	2.4	4.16
7802-03	2.4	4.16
9203-03	4.8	8.32
7902-03	2.4	8.32
2402-02	7.62	13.2
2403-01	4.8	8.32
2701-02	4.8	8.32
1908-01	7.62	13.2
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1520-02	2.4	4.16

5304	2.4	4.16
2005-11	7.62	13.2
2003-02	7.62	13.2
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2005-07	7.62	13.2
1335-03	2.4	4.16
5204-03	2.4	4.16
3603-02	4.8	8.32
3603-03	4.8	8.32
5302-02	2.4	4.16
9101-02	4.8	8.32
5010-01	2.4	4.16
1703-04	2.4	4.16
9202-04	4.8	13.2
5305-01	7.62	13.2
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3010-04	4.8	8.32
1110-05	2.4	4.16
5802-02	2.4	4.16
1743-05	2.4	4.16
1618-02	2.4	4.8
1530-08	2.4	4.16
1708-02	2.4	4.16
1525-05	2.4	4.16
9105-07	7.62	13.2
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1705-05	2.4	4.16
1525-02	2.4	4.16
1335-02	2.4	4.16
1617-04	2.4	4.16
1529-11	7.62	13.2
1519-04	2.4	4.16
1912-10	7.62	13.2
1531-01	2.4	4.16
2004-02	7.62	13.2
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1615-07	2.4	4.16
1117-09	7.62	13.2
1116-04	7.62	13.2
1117-07	7.62	13.2
1420-05	7.62	13.2

1203-03	2.4	4.16
2174-04	7.62	13.2
1734-01	2.4	4.16
9002-01	4.8	8.32
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1113-04	2.4	4.16
1525-03	2.4	4.16
1421-02	2.4	4.16
5010-05	2.4	4.16
5402-01	2.4	4.16
1529-13	7.62	13.2
1419-13	7.62	13.2
1520-04	2.4	4.16
1519-02	2.4	4.16
1512-04	2.4	4.16
5016	7.62	13.2
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1704-03	2.4	4.16
1113-03	2.4	4.16
1114-03	7.62	13.2
1519-05	2.4	4.16
1704-01	2.4	4.16
1310-01	2.4	4.16
1310-03	2.4	4.16
1301-01	2.4	4.16
2602-01	4.16	8.32
5803-01	2.4	13.2
3013-02	4.8	8.32
1719-16	7.62	13.2
1646-03	7.62	13.2
1205-01	2.4	4.16
6001-05	2.4	4.16
1701-03	2.77	4.8
1743-03	2.4	4.16
6404-01	2.4	4.16
1901-04	2.4	4.16
1901-05	2.4	4.16
1703-05	2.4	4.16
1718-04	7.62	13.2
1102-05	2.4	4.16
1706-02	2.4	4.16

1705-03	2.4	4.16
1703-01	2.4	4.16
3013-04	4.8	8.32
5801-02	2.4	4.16
1704-04	2.4	4.16
6005-01	2.4	4.16
2301-03	4.8	8.32
7002-04	2.4	4.16
7005-04	2.4	4.16
6069P	2.4	4.16
1910-04	2.4	4.16
1910-05	2.4	4.16
7902-01	2.4	4.16
1418-05	2.4	4.16
1658-14	7.62	13.2
1910-01	2.4	4.16
1001-01	2.4	4.16
1714-05	2.4	4.16
2174-06	7.62	13.2
1001-03	2.4	4.16
1714-02	2.4	4.16
1711-03	7.62	13.2
1802-02	2.4	4.16
1705-02	2.4	4.16
1705-04	2.4	4.16
7002-03	2.4	4.16
2176	2.4	4.16
8701-04	4.8	8.32
7003-04	2.4	4.16
1715-03	2.4	4.16
1715-02	2.4	4.8
1671-01	2.4	4.16
7801-03	2.4	4.16
1120-08	7.62	13.2
8401-03	4.8	8.32
9001-02	4.8	8.32
1619-03	7.62	13.2
7702-01	2.4	4.16
1647-10	7.62	13.2
6003-01	2.4	4.16
7805-13	2.4	13.2

5069-01	2.4	4.16
7004-04	2.4	4.16
7004-05	2.4	4.16
1310-04	2.4	4.16
1120-06	7.62	13.2
1119-05	7.62	13.2
1334-02	2.4	4.16
1652-01	2.4	4.16
6102-03	7.62	13.2
6102-04	7.62	13.2
8404-01	7.62	13.2
6702-03	4.16	8.32
7004-06	2.4	4.16
4674-01	2.4	4.16
6003-02	2.4	4.16
6303-02	2.4	4.16
2902-02	4.8	8.32
1115-02	7.62	13.2
1715-05	2.4	4.16
6008-02	2.4	4.16
6006-01	2.4	4.16
6001-02	2.4	4.16
6002-02	2.4	4.16
6012-04	7.62	13.2
6101-03	2.4	4.16
3604-07	4.8	8.32
6007-03	2.4	4.16
6705-02	4.16	7.2
1201-02	2.4	4.16
9206-09	7.62	13.2
8401-01	4.8	8.32
9404-02	2.4	4.16
2604-02	4.8	13.2
1303-02	7.62	13.2
6002-03	2.4	4.16
6001-03	2.4	4.16
9901-01	2.4	4.16
6008-05	2.4	4.16
6001-04	2.4	4.16
1120-10	7.62	13.2
1115-03	7.62	13.2

8011-04	2.4	4.16
8405-03	7.62	13.2
6002-04	2.4	4.16
6001-01	2.4	4.16
6002-01	2.4	4.16
3402-05	4.8	13.2
1652-04	2.4	4.16
2306-01	4.8	13.2
7303-03	2.4	4.16
9203-02	4.8	8.32
5801-01	2.4	4.16
1001-02	2.4	4.16
1615-08	2.4	4.16
1701-01	2.77	4.8
1437-04	2.4	4.16
1530-10	2.4	4.16
8602-02	2.4	4.16
9103-01	4.16	8.32
1657-02	7.62	13.2
1348-08	2.4	13.2
1712-11	7.62	13.2
6404-02	2.4	4.16
1512-03	2.4	4.16
1133-04	2.4	4.16
1706-03	2.4	4.16
0002-03	7.62	13.2
7004-02	2.4	4.16
7103-01	2.4	4.16
3205-06	2.4	13.2
6305-02	2.4	4.16
6703-02	4.16	7.2
7802-02	2.4	4.16
6601-01	4.16	7.2
9201-04	4.8	8.32
9004-11	7.62	13.2
1419-12	7.62	13.2
7902-02	2.4	4.16
6301-02	2.4	4.16
6404-05	2.4	4.16
1419-11	7.62	13.2
1335-01	2.4	4.16

6301-03	2.4	4.16
8014-00	7.62	13.2
1419-10	7.62	13.2
8301-02	2.4	4.16
45CS-02	2.4	4.16
1117-10	7.62	13.2
1709-04	7.62	13.2
4006-03	7.62	13.2
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6702-01	4.16	7.2
1602-02	2.4	4.16
1329-02	2.4	4.16
1204-01	7.62	13.2
1420-04	7.62	13.2
2006-02	7.62	13.2
5062P	2.4	4.16
6102-01	7.62	13.2
7801-04	2.4	4.16
6101-02	2.4	4.16
1671-03	2.4	4.16
1647-06	7.62	13.2
8401-04	4.8	8.32
1113-05	2.4	4.16
6004-03	2.4	4.16
7504-01	2.4	4.16
2305-03	7.62	13.2
7101-03	2.4	4.16
7004-07	2.4	4.16
6602-06	4.16	7.2
6603-02	7.62	13.2
6603-04	7.62	13.2
1329-04	2.4	4.16
2601-02	4.8	8.32
1310-02	2.4	4.16
1329-05	2.4	4.16
1120-07	7.62	13.2
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1329-01	2.4	4.16
7103-02	2.4	4.16
2006-01	7.62	13.2

5802-04	2.4	4.16
5012	2.4	4.16
9405-08	7.62	13.2
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1102-02	2.4	4.16
1102-01	2.4	4.16
7601-02	2.4	4.16
8006-01	7.62	13.2
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6406-03	7.62	13.2
2906-04	7.62	13.2
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3015-07	7.62	13.2
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8008-02	2.4	4.16
3009-02	4.8	8.32
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1403-02	2.4	4.16
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7701-04	2.4	4.16
1004-02	2.4	4.16
1004-04	2.4	4.16
5808	7.62	13.2
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7805-14	7.62	13.2
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6704-01	7.62	13.2
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9001	4.8	8.32
5305-05	7.62	13.2
6703-04	4.16	7.2
3015-09	7.62	13.2
3575-1P	4.8	8.32
3575-2P	4.8	8.32
2174-05	7.62	13.2
5879-01	7.62	13.2
9405-07	7.62	13.2

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0003-01	7.62	13.2
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6802-03	7.62	13.2
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1717-14	7.62	13.2
2179-03	7.62	13.2
PRIVADO	2.4	4.16
8301-05	2.4	4.16
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6004-04	2.4	4.16
1401-09	7.62	13.2
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8014	7.62	13.2
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9405-06	7.62	13.2
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1398P	2.4	4.16
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1710-02	7.62	13.2
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1619-02	7.62	13.2
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9105-10	7.62	13.2
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9003	4.8	8.32

1636-06	7.62	13.2
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3301-02	2.4	8.32
1720-06	7.62	13.2
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1712	7.62	13.2
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1658-15	7.62	13.2
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1658-11	7.62	13.2
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2175-01	7.62	13.2
1416-04	2.4	4.16
1416-03	2.4	4.16
1422-04	2.4	4.16
1133-03	2.4	4.16
1512-05	2.4	4.16
1437-01	2.4	4.16
7202-02	2.4	4.16