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DATE: December 17, 2020
TO: SJVUAPCD Governing Board
FROM: Samir Sheikh, Executive Director/APCO
Project Coordinator: Morgan Lambert



RE: **ITEM NUMBER 18: RECEIVE AND FILE
DISTRICT'S 2019-20 ANNUAL OFFSET
EQUIVALENCY REPORT TO THE FEDERAL
ENVIRONMENTAL PROTECTION AGENCY**

RECOMMENDATION:

Receive and file the District's Final Annual Offset Equivalency Report submitted to the federal Environmental Protection Agency (EPA) for the 12-month period from August 20, 2019 through August 19, 2020.

BACKGROUND:

To achieve the District's mission of improving air quality and public health for all Valley residents, the District has developed and implemented numerous air quality plans to reduce emissions from stationary sources through the adoption of nearly 650 of the most stringent rules in the nation and strong voluntary incentive programs that have invested more than \$3 billion of combined funds in clean-air projects. Over the past several decades, these air quality improvement efforts have reduced NOx emissions (primary precursor for both ozone and PM2.5) from stationary and mobile sources by over 75%, including a greater than 90% reduction from stationary sources under the District's jurisdiction, resulting in significant air quality progress towards meeting the health-based federal ozone and PM2.5 standards.

In addition to the District rules aimed at directly reducing emissions from stationary sources, the District also has a set of rules establishing a permitting program designed under state law to ensure on a regional basis there is no net increase in emissions of nonattainment pollutants or their precursors for new or modified sources.

Under the District's New Source Review (NSR) Rule, new facilities and modifications to existing facilities that result in increases in permitted emissions above specified levels are required to provide offsets as a part of the requirements to obtain an "Authority to Construct" permit. Both federal and state law mandate NSR permitting programs that contain offsetting requirements. Emission reduction credits (ERCs) are the "currency" of offsets. Offsets are intended by both federal and state law to be one part of a comprehensive NSR permitting program that has been specifically designed by Congress and the state legislature to allow for industrial growth while regulating emissions increases. Additionally, any emission increases due to growth in the economy are accounted for in State Implementation Plans that demonstrate how the District's overall air quality control program will require sufficient emissions reductions to attain national ambient air quality standards.

It is important to clarify that ERCs cannot be used in lieu of meeting other air pollution control requirements, such as through market-based systems that other agencies may have in place. Instead, ERCs are required in addition to, and only after, establishing that the new emission units are controlled with the best available control technology (BACT), comply with all applicable prohibitory rules, and will not cause a health risk to surrounding communities. The District's NSR permitting program, including the accompanying ERC program, ensures that new emissions are controlled with the best technologies, prevents the permitting of any operation that will cause a significant health impact, demonstrates that attainment is not endangered, and has historically been found by the state and federal governments to comply with state and federal laws governing NSR/ERC programs.

The purpose of this item is to receive and file the District's 2019-20 Annual Offset Equivalency Report, which was filed with the federal EPA on November 20, 2020, as required by Rule 2201.

DISTRICT OFFSET EQUIVALENCY PROGRAM:

As allowed by the federal Clean Air Act (CAA), the District's offsetting program differs from a direct implementation of the federal offsetting requirements. The federal EPA approved the District's approach in 2001 as the District's local NSR program was at least as stringent as the federal program. As included in the District's NSR Rule, to demonstrate equivalency with the federal NSR offsetting requirements the District is required to prepare and submit an annual offset equivalency report to EPA and the California Air Resources Board (CARB) by November 20th that evaluates whether both of the following conditions are met:

- Offset Quantity (Test 1) – the quantity of offsets required by the District from new and modified stationary sources equals or exceeds the quantity of offsets otherwise required under federal regulations; and

- Surplus Value (Test 2) - the amount of reductions, after discounting at the time of use, required by the District from new and modified stationary sources, plus any additional surplus creditable emission reductions, equals or exceeds the amount of offsets otherwise required under federal regulations.

Under the District's NSR rule, if the system cannot demonstrate equivalency with federal requirements, immediate and specified remedies are required to be enacted for each of the above tests.

CALIFORNIA AIR RESOURCES BOARD ERC REVIEW:

At their January 2019 meeting, CARB directed their staff to review the District's ERC and offset equivalency program in response to a request from environmental advocacy groups. CARB staff worked cooperatively with District staff to review the ERC system, including the annual federal equivalency demonstration, in the context of the District's stationary source permitting program.

Following nearly a year and a half of detailed review, CARB released its final report titled Review of San Joaquin Valley Air Pollution Control District Emission Reduction Credit System on June 5, 2020. In response to CARB's review, the District committed to taking the following specific steps to enhance the program as necessary to maintain an effective permitting system that allows for protection of public health and strong economic growth:

- Develop a new equivalency tracking database, including associated documentation.
- Conduct a public workshop each year, beginning with the 2019-2020 equivalency demonstration, to present the results of the annual equivalency demonstration prior to taking the report to the District's Governing Board.
- Enhance the annual demonstration report to make the report more understandable beginning with the 2019-2020 equivalency demonstration, including more fully characterizing adjustments made to year-to-year carry-overs to ensure the public can better understand all adjustments effective in a tracking year.
- Convene a public advisory working group consisting of affected stakeholders, including regulated Valley businesses, Valley residents, and federal, state, and local public agencies, to assist in developing solutions related to the District's offset equivalency system, as needed to maintain an effective permitting system that allows for protection of public health and strong economic growth.
- Adjust calculated emission reductions from all affected Agricultural Internal Combustion Engine Conversion Incentive Program (AG-ICE) projects to reflect the appropriate load-factor, and incorporate these adjustments into the 2020 equivalency demonstration. The District will include a discussion of the analysis and adjustments in the 2019-2020 report.

- Analyze the orphan shutdown projects identified by CARB, and make adjustments, as appropriate, for inclusion in the 2019-2020 equivalency demonstration. The District will include a discussion of the analysis and adjustments in the 2019-2020 report.
- Update the District's policies that pertain to the quantification of emissions reductions from orphan shutdowns, and ensure procedures and associated staff training maintain consistency with District NSR criteria for creditability of emissions reductions.

PUBLIC ADVISORY WORKGROUP:

To ensure that any enhancements to the District's offset equivalency system benefit fully from the input and suggestions of Valley stakeholders and subject matter experts, the District Governing Board created a public advisory working group to assist in developing solutions related to the District's offset equivalency system. The public advisory working group concept and framework was developed with Valley community based organizations and regulated Valley businesses to support the development of the 2016 Ozone and the 2018 PM2.5 plans. This framework provided a successful mechanism to navigate complex topics and receive valuable stakeholder input that aided the development of the plans. The District believes that this public engagement tool will also be effective in navigating the complex subject matter of ERCs and federal offset equivalency, and enable effective stakeholder input that will be valuable in developing enhancements to the program. To date, the ERC Public Advisory Workgroup has met three times since its formation in September 2020 and is scheduled to meet monthly on an ongoing basis.

PUBLIC WORKSHOP:

Consistent with a commitment by the District to enhance the public engagement and transparency in the offset equivalency process, on November 5, 2020, the District held a public workshop to present and receive feedback on the draft 2019-20 offset equivalency demonstration and provide detailed explanations of the equivalency process and the significant adjustments that were being made as part of this year's demonstration.

2019-2020 ANNUAL OFFSET EQUIVALENCY REPORT:

During this report's tracking period, there were fifteen (15) ATC projects that triggered a FMM. Of these fifteen (15) projects, three (3) projects were a FMM for NOx only, eight (8) projects were a FMM for VOC only, and four (4) were a FMM for both NOx and VOC. There were no projects finalized during this reporting period that triggered a FMM for SOx, PM10, PM2.5, or CO.

In addition to the new projects, each year, prior to conducting the annual equivalency demonstration, it may be necessary to adjust the prior year end carry-over balances to account for cancelled and unimplemented projects, partially implemented projects, and the addition of prior year projects, ERCs, or other creditable emission reductions that were not accounted for previously. Furthermore, the District must review new rules and regulations to determine if adjustments must be made to the surplus creditable reduction carry-over.

This year the District has conducted an extensive review of the projects and entries in the system, and made significant adjustments to the carry-over balances as part of the 2019-2020 demonstration. In addition to the categories listed above, the District also incorporated the effects of the Governing Board's September 2020 provisional removal of orphan shutdown and agricultural engine electrification projects. This action resulted in the inability to demonstrate NOx and VOC surplus value (Test 2) equivalency, and also resulted in the need to make adjustments to the surplus creditable reduction carry-over balances for PM10, PM2.5, and SOx. The District also determined that an adjustment was necessary to correct an issue affecting NOx and VOC for tracked federal projects during the period starting August 20, 2010, and ending August 19, 2014. Specifically, the appropriate extreme non-attainment federal offset ratio of 1.5 to 1 for NOx and VOC was not applied during this period. Lastly, the District identified a few ERC withdrawal projects that were associated with ATC projects that were deemed complete prior to August 20, 2001. Pursuant to Section 7.3.1 of Rule 2201, these projects were removed from the system because equivalency is only tracked for projects which submitted a complete application for ATC after August 20, 2001.

Annual Equivalency Demonstration - Offset Quantity Equivalency (Test 1)

As detailed in the report, there was a current year offset quantity excess for all pollutants except VOC, for which there was a 15.0 ton shortfall for 2019-20. Following the year-to-year adjustments to the prior year end carry-over balances, all pollutants, except for VOC, maintain a positive carry-over balance and thus remain offset quantity (Test 1) equivalent. For VOC, following the year-to-year adjustments to the prior year carry-over balance, there are not sufficient carry-over credits to mitigate the 15.0 ton shortfall in 2019-20. Therefore, VOC was no longer offset quantity (Test 1) equivalent as of the date of the report.

Annual Equivalency Demonstration – Surplus Value Equivalency (Test 2)

As detailed in the report, there were no new major source or federal major modification projects for PM10, PM2.5, SOx, or CO for the 2019-20 tracking year. Following the year-to-year adjustments to the prior year carry-over balances, these pollutants maintain a positive carry-over balance and thus remain surplus value (Test 2) equivalent.

As detailed in the report, with the Governing Board's provisional removal of the emissions reductions associated with the orphan shutdown and AG-ICE projects in September 2020, the system was no longer able to demonstrate equivalency with the surplus value test for NOx and VOC. Pursuant to the District's NSR rule, effective September 17, 2020, the Rule 2201 remedy was enacted and all ATCs requiring NOx or VOC offsets under the NSR rule for a new major source or federal major modification are now required to supply ERCs with sufficient "surplus at time of use" credit at the time of ATC issuance. Therefore, surplus value (Test 2) equivalency was not evaluated for NOx and VOC in this report.

Implications of 2019-20 Offset Equivalency Demonstration

VOC

Effective November 20, 2020, all new major sources or federal major modification projects triggering offsets for VOC under 40 CFR 51.165 and part D of Title I of the CAA are required to satisfy the full federal offset quantity and ERCs used to satisfy the offset requirements must be surplus at the time of ATC issuance.

NOx

Effective September 17, 2020, NOx was not Surplus Value (Test 2) equivalent. Since that time, pursuant to Section 7.4.2 of Rule 2201, any ATC requiring NOx offsets under the District NSR rule for a new major source or federal major modification as defined by 40 CFR 51.165 and part D of Title I of the CAA has been required to supply ERCs that are surplus-at-time of ATC issuance.

As demonstrated above, NOx remains Offset Quantity (Test 1) equivalent. Therefore, there is no change to the offset quantity requirement at this time.

PM10, PM2.5, SOx, and CO

As demonstrated above, PM10, PM2.5, SOx, and CO remain both Offset Quantity (Test 1) and Surplus Value (Test 2) equivalent. Therefore, there is no change to the offset quantity and ERC surplus value requirements at this time.

NEXT STEPS:

With the enactment of the Rule 2201 remedies for VOC and NOx, the District is working to educate stakeholders on the current status of offsetting requirements, and is actively engaging with project proponents to help navigate the potentially significant impacts of federal offsetting requirements. Additionally, the District is working with stakeholders through the Public Advisory Workgroup in pursuit of solutions to enhance the District ERC and offset equivalency programs to correct the shortfall in VOC and NOx and

ensure an adequate supply of credits to meet offsetting obligations. District staff will provide regular progress reports to the Governing Board at the regularly scheduled public meetings.

Furthermore, consistent with state law and Governing Board direction, the District currently considers on a case-by-case basis the transfer of ERCs from the Valley to other regions of the state. Given that the current limited supply of surplus at time of use ERCs may not be sufficient to support longer-term projected economic growth and development in Valley, the District is considering not allowing the inter-district transfer of surplus credits to other regions. The District intends to begin a public process to solicit feedback on this potential change and will return to the Board with recommendations at a future date.

San Joaquin Valley Unified Air Pollution Control District
Governing Board Meeting
December 17, 2020

**RECEIVE AND FILE DISTRICT'S FINAL ANNUAL OFFSET
EQUIVALENCY REPORT TO THE FEDERAL ENVIRONMENTAL
PROTECTION AGENCY**

Attachment:

ANNUAL OFFSET EQUIVALENCY REPORT
(199 PAGES)

November 20, 2020

Elizabeth Adams, Director
Air Division
U.S. EPA, Region IX
75 Hawthorne St
San Francisco, CA 94105-3901

Re: Offset Equivalency Report, August 2019 – August 2020

Dear Ms. Adams:

Pursuant to Rule 2201 (*New and Modified Stationary Source Review NSR Rule*), the San Joaquin Valley Air Pollution Control District (District) has completed its annual offset equivalency report for the twelve-month period from August 20, 2019, to August 19, 2020. The individual elements that contributed to this year's offset equivalency determination are presented in this District's annual offset equivalency report, which is attached to this letter.

The attached report details the following:

- The quantity of offsets that would have been required from new major sources and major modifications to existing sources under a federal NSR program,
- The quantity of offsets actually required by the District,
- The surplus-at-time-of-use value of the emission reductions used to offset emissions increases from stationary sources,
- Adjustments to prior year end carry-over balances,
- Adjustments to account for the September 2020 action taken by the District's Governing Board in response to questions raised by the California Air Resources Board's review of the District's offset equivalency system, and
- The quantity of shortfall or excess carry-over credits.

For your information, there were fifteen (15) Federal Major Modification projects during this reporting period, as detailed in the 2019-2020 Annual Offset Equivalency report, Appendix A, New Major Sources and Federal Major Modification Projects.

Samir Sheikh
Executive Director/Air Pollution Control Officer

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Ms. Adams
Page 2

As detailed in the report, the District required the same or more offsets than would have been required under federal offset requirements (Test 1) for all pollutants, except for volatile organic compounds (VOC). Consistent with the remedy contained within the District's NSR rule, effective November 20, 2020, all new major sources or federal major modification projects triggering offsets for VOC under 40 CFR 51.165 and part D of Title I of the CAA are now required to satisfy the full federal offset quantity by providing emission reduction credits (ERCs) that are surplus at time of Authority to Construct (ATC) issuance.

The report also demonstrates that the surplus value of the reductions used were equal to or exceeded those required under federal NSR for particulate matter (PM10 and PM2.5) and sulfur oxides (SOx). Please note that with the provisional removal of the emissions reductions associated with orphan shutdown and agricultural engine electrification projects, the system was no longer able to demonstrate equivalency with the surplus value test for NOx and VOC. Pursuant to the District's NSR rule, effective September 17, 2020, the remedy was enacted and all projects requiring NOx or VOC offsets under the NSR rule for a new major source or federal major modification are now required to supply ERCs with sufficient "surplus at time of use" credit at the time of ATC issuance. Therefore, surplus value (Test 2) equivalency was not evaluated for NOx and VOC in this report, and the remedy enacted in September 2020 remains in place for NOx and VOC.

The District looks forward to working with your staff to navigate the impacts of the 2019-2020 equivalency demonstration, and to assist in developing solutions related to the District's offset equivalency system, as needed to maintain an effective permitting system that allows for protection of public health and strong economic growth in the Valley. Please call me at (559) 230-5900 or email me at arnaud.marjollet@valleyair.org if you have any questions regarding this matter, or if you need additional details.

Sincerely,



Arnaud Marjollet
Director of Permit Services

cc: Courtney Graham, CARB

Attachment: Annual Offset Equivalency Report

Attachment: 2019-2020 Annual Offset Equivalency Report

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

2019-2020 Annual Offset Equivalency Report

November 20, 2020

San Joaquin Valley APCD

Annual Offset Equivalency Report

Offset Quantity Equivalency

Summary for 08/20/2019 through 08/19/2020

Pollutant	Number of New Major Sources	Number of Federal Major Mods	Offsets Required under Federal NSR	Offsets Required under District NSR	Current Year Excess or Shortfall	Previous Year-End Total Carry- over Excess or Shortfall	Year-to-Year Adjustment to Carry-over Balance	Year-End Total Carry- over Excess or Shortfall
NOx	0	7	18.8	26.8	8.0	4,319.9	(3,968.8)	359.1
VOC	0	12	50.0	35.0	(15.0)	733.4	(2,820.6)	(2,102.2)
PM10	0	0	0.0	15.1	15.1	837.5	(529.7)	322.9
PM2.5	0	0	0.0	0.0	0.0	377.7	(185.4)	192.3
CO	0	0	0.0	0.0	0.0	198.1	0.0	198.1
SOx	0	0	0.0	8.5	8.5	2,863.6	(1,696.1)	1,176.0

Notes:

- All values are in tons per year

San Joaquin Valley APCD

Annual Offset Equivalency Report

Surplus Value Equivalency

Summary for 08/20/2019 through 08/19/2020

Pollutant	Number of New Major Sources	Number of Federal Major Mods	Offsets Required under Federal NSR	Surplus Reductions Used for Equivalency This Year	Current Year Excess or Shortfall	Previous Year-End Total Carry-over Creditable Reductions	Year-to-Year Adjustment to Carry-over Balance	Current Year New Creditable Reductions	Year-End Total Carry-over Creditable Reductions
NOx ¹	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
VOC ¹	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
PM10	0	0	0.0	0.0	0.0	1,898.0	(1,583.2)	15.2	330.0
PM2.5	0	0	0.0	0.0	0.0	1,020.0	(823.0)	0.0	197.0
CO	0	0	0.0	0.0	0.0	763.0	0.0	0.0	763.0
SOx	0	0	0.0	0.0	0.0	2,038.0	(1,702.2)	2.3	338.2

Notes:

- All values are in tons per year

¹ Effective September 17, 2020, NOx and VOC were no longer Surplus Value equivalent and Rule 2201 remedy was enacted to require surplus at time-of-use ERCs for projects requiring NOx and VOC offsets under Rule 2201. Therefore, these pollutants are not included in Surplus Value demonstration.

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List of Acronyms

AER:	Actual Emission Reductions
AG-ICE:	Agricultural Internal Combustion Engine Conversion Incentive Program
AQID:	Air Quality Improvement Deduction
ATC:	Authority to Construct
BACT:	Best Available Control Technology
CAA:	Clean Air Act
CARB:	California Air Resources Board
CFR:	Code of Federal Regulations
CO:	Carbon Monoxide
DOQ:	District Offset Quantity
EPA:	Environmental Protection Agency
ERC:	Emission Reduction Credit
FMM:	Federal Major Modification
FOQ:	Federal Offset Quantity
NMS:	New Major Source
NSR:	New Source Review
NOx:	Nitrogen Oxides
PM10:	Particulate Matter 10 microns in size or smaller
PM2.5:	Particulate Matter 2.5 microns in size or smaller
SOx:	Sulfur Oxides
tpy:	Tons Per Year
VOC:	Volatile Organic Compounds

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

2019-2020 SJVAPCD Annual Offset Equivalency Report
November 20, 2020

I. Summary

Pursuant to Rule 2201 (*New and Modified Stationary Source Review NSR Rule*), the San Joaquin Valley Air Pollution Control District (District) has completed its annual offset equivalency report for the twelve-month period from August 20, 2019, to August 19, 2020. The individual elements that contributed to this year's offset equivalency determination are presented in this annual offset equivalency report.

A summary of the results from the 2019-2020 offset equivalency demonstration is shown in the following table:

Table 1: 2019-2020 Offset Equivalency Report Summary

Equivalent?	NOx	VOC	PM10	PM2.5	CO	SOx
Test 1: Offset Quantity	Yes	No	Yes	Yes	Yes	Yes
Test 2: Surplus Value	No	No	Yes	Yes	Yes	Yes

II. Background

To achieve the District's mission of improving air quality and public health for all Valley residents, the District has developed and implemented numerous air quality plans to reduce emissions from stationary sources through the adoption of nearly 650 of the most stringent rules in the nation and strong voluntary incentive programs that have invested more than \$3 billion of combined funds in clean-air projects. Over the past several decades, these air quality improvement efforts have reduced NOx emissions (primary precursor for both ozone and PM2.5) from stationary and mobile sources by over 75%, including a greater than 90% reduction from stationary sources under the District's jurisdiction, resulting in significant air quality progress towards meeting the health-based federal ozone and PM2.5 standards.

In addition to the District rules aimed at directly reducing emissions from stationary sources, the District also has a set of rules establishing a permitting program designed under state law to ensure on a regional basis there is no net increase in emissions of nonattainment pollutants or their precursors for new or modified sources.

Under the District's New Source Review (NSR) Rule, new facilities and modifications to existing facilities that result in increases in permitted emissions above specified levels are required to provide offsets as a part of the requirements to obtain an "Authority to Construct" permit. Both federal and state law mandate NSR permitting programs that contain offsetting requirements. Emission reduction credits (ERCs) are the "currency" of offsets. Offsets are intended by both federal

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

2019-2020 SJVAPCD Annual Offset Equivalency Report
November 20, 2020

and state law to be one part of a comprehensive NSR permitting program that has been specifically designed by Congress and the state legislature to allow for industrial growth while regulating emissions increases. Additionally, any emission increases due to growth in the economy are accounted for in State Implementation Plans that demonstrate how the District's overall air quality control program will require sufficient emissions reductions to attain national ambient air quality standards.

It is important to clarify that ERCs cannot be used in lieu of meeting other air pollution control requirements, such as through market-based systems that other agencies may have in place. Instead, ERCs are required in addition to, and only after, establishing that the new emission units are controlled with the best available control technology (BACT), comply with all applicable prohibitory rules, and will not cause a health risk to surrounding communities. The District's NSR permitting program, including the accompanying ERC program, ensures that new emissions are controlled with the best technologies, prevents the permitting of any operation that will cause a significant health impact, demonstrates that attainment is not endangered, and has historically been found by the state and federal governments to comply with state and federal laws governing NSR/ERC programs.

A. District Offset Equivalency Program

As allowed by the federal Clean Air Act (CAA), the District's offsetting program differs from a direct implementation of the federal offsetting requirements. The federal Environmental Protection Agency (EPA) approved the District's approach in 2001 as the District's local NSR program was at least as stringent as the federal program. As included in the District's NSR Rule, to demonstrate equivalency with the federal NSR offsetting requirements the District is required to prepare and submit an annual offset equivalency report to EPA and the California Air Resources Board (CARB) by November 20th that evaluates whether both of the following conditions are met:

- Offset Quantity (Test 1) – the quantity of offsets required by the District from new and modified stationary sources equals or exceeds the quantity of offsets otherwise required under federal regulations; and
- Surplus Value (Test 2) - the amount of reductions, after discounting at the time of use, required by the District from new and modified stationary sources, plus any additional surplus creditable emission reductions, equals or exceeds the amount of offsets otherwise required under federal regulations.

Under the District's NSR rule, if the system cannot demonstrate equivalency with federal requirements, immediate and specified remedies are required to be enacted for each of the above tests. For example, if the system fails to demonstrate equivalency for the surplus value test, the District's NSR rule requires

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

2019-2020 SJVAPCD Annual Offset Equivalency Report
November 20, 2020

that the District immediately default to requiring “surplus at time of use” credits to satisfy offset requirements under the rule for each new major source or federal major modification. This means that credits that are not surplus of requirements at time of Authority to Construct (ATC) issuance would not be able to be used to satisfy the offset requirement for major federal projects.

For additional information regarding the District offset equivalency program, please see Rule 2201, Section 7.0: <http://www.valleyair.org/rules/currnrules/r2201.pdf>.

B. California Air Resources Board ERC Review

At their January 2019 meeting, CARB directed their staff to review the District’s ERC and offset equivalency program in response to a request from environmental advocacy groups. CARB staff worked cooperatively with District staff to review the ERC system, including the annual federal equivalency demonstration, in the context of the District’s stationary source permitting program.

Following nearly a year and a half of detailed review, CARB released its final report titled *Review of San Joaquin Valley Air Pollution Control District Emission Reduction Credit System* on June 5, 2020. In response to CARB’s review, the District committed to taking the following specific steps to enhance the program as necessary to maintain an effective permitting system that allows for protection of public health and strong economic growth:

- Develop a new equivalency tracking database, including associated documentation.
- Conduct a public workshop each year, beginning with the 2019-2020 equivalency demonstration, to present the results of the annual equivalency demonstration prior to taking the report to the District’s Governing Board.
- Enhance the annual demonstration report to make the report more understandable beginning with the 2019-2020 equivalency demonstration, including more fully characterizing adjustments made to year-to-year carry-overs to ensure the public can better understand all adjustments effective in a tracking year.
- Convene a public advisory working group consisting of affected stakeholders, including regulated Valley businesses, Valley residents, and federal, state, and local public agencies, to assist in developing solutions related to the District’s offset equivalency system, as needed to maintain an effective permitting system that allows for protection of public health and strong economic growth.
- Adjust calculated emission reductions from all affected Agricultural Internal Combustion Engine Conversion Incentive Program (AG-ICE) projects to reflect the appropriate load-factor, and incorporate these adjustments into the 2020 equivalency demonstration. The District will include a discussion of the analysis and adjustments in the 2019-2020 report.
- Analyze the orphan shutdowns projects identified by CARB, and make adjustments, as appropriate, for inclusion in the 2019-2020 equivalency

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

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demonstration. The District will include a discussion of the analysis and adjustments in the 2019-2020 report.

- Update the District's policies that pertain to the quantification of emissions reductions from orphan shutdowns, and ensure procedures and associated staff training maintain consistency with District NSR criteria for creditability of emissions reductions.

C. Public Advisory Workgroup

To ensure that any enhancements to the District's offset equivalency system benefit fully from the input and suggestions of Valley stakeholders and subject matter experts, the District Governing Board created a public advisory working group to assist in developing solutions related to the District's offset equivalency system. The public advisory working group concept and framework was developed with Valley community based organizations and regulated Valley businesses to support the development of the 2016 Ozone and the 2018 PM2.5 plans. This framework provided a successful mechanism to navigate complex topics and receive valuable stakeholder input that aided the development of the plans. The District believes that this public engagement tool will also be effective in navigating the complex subject matter of ERCs and federal offset equivalency, and enable effective stakeholder input that will be valuable in developing enhancements to the program. To date, the ERC Public Advisory Workgroup has met two times since its formation in September 2020 and is scheduled to meet monthly on an ongoing basis.

D. Provisional Removal of Ag Engine Electrification Projects and Orphan Shutdowns

The findings of CARB's review pointed to the need to revisit the assumptions used in the District's equivalency demonstrations for the surplus value test. Consistent with the District's offset equivalency agreement with EPA and with the provisions of the District's NSR rule, the District has historically utilized the surplus value of emission reductions across various categories to demonstrate equivalency with federal surplus value offsetting requirements on an annual basis. Two particular categories that have been utilized were agricultural engine electrification projects associated with the AG-ICE incentive program and unbanked facility shutdowns ("orphan shutdowns"). CARB raised questions regarding the assumptions, quantification methodologies, and creditability of the emission reductions associated with these projects when viewed in an NSR context. In response to the review, the District committed to revisiting the emission reductions used in the equivalency demonstration from these two categories.

After review of these projects and given the significant questions surrounding the assumptions, quantification methodologies, and creditability of the emission reductions from these two categories, on September 17, 2020, the District

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Governing Board took action to provisionally withdraw the emission reductions from these projects from the equivalency system. This action is allowing the public process, including the recently created ERC Public Advisory Workgroup, to inform the development of mechanisms and methodologies for the use of these and other types of creditable emission reductions in demonstrating equivalency. Once EPA and CARB accepted mechanisms and methodologies are developed, the District will reintroduce the appropriate portion of the emission reductions from the provisionally withdrawn projects.

With the recommended provisional removal of the emissions reductions associated with the AG-ICE and orphan shutdown projects, the system was no longer able to demonstrate equivalency with the surplus value test for NO_x and VOC. Pursuant to the District's NSR rule, effective September 17, 2020, any ATC requiring NO_x or VOC offsets under the NSR rule for a new major source or federal major modification is now required to supply ERCs with sufficient "surplus at time of use" credit at the time of ATC issuance. Therefore, surplus reductions for NO_x and VOC were not evaluated in this report.

Surplus value test equivalency for PM₁₀, PM_{2.5}, and SO_x has not relied on the significant use of emissions reductions associated with the AG-ICE and orphan shutdown projects. Therefore, the provisional removal of these reductions was not anticipated to affect the ability to demonstrate surplus value test equivalency for these pollutants. Adjustments to account for the impact of the removal of these projects on the surplus value test equivalency for PM₁₀, PM_{2.5}, and SO_x were made in this report. Similarly, these reductions are not used in demonstrating offset quantity test equivalency for any pollutant, so their provisional removal did not affect offset quantity test equivalency.

E. Public Workshop

Consistent with a commitment by the District to enhance the public engagement and transparency in the offset equivalency process, on November 5, 2020, the District held a public workshop to present the draft 2019-20 offset equivalency demonstration and provide detailed explanations of the equivalency process and the significant adjustments that were being made as part of this year's demonstration.

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III. Federal Offsets Required During 2019-2020 Tracking Period

Federal offsetting requirements are specified in 40 CFR 51.165, and part D of Title I of the CAA. Pursuant to these requirements, New Major Sources or Federal Major Modifications must provide a sufficient quantity of surplus-at-time-of-use ERCs to satisfy offsetting requirements. The amount of Federal Offset Quantity (FOQ) required for ATC projects finalized during this report's tracking period is discussed in the following sections.

A. New Major Source (NMS):

Pursuant to 40 CFR 51.165 (a)(1)(iv)(A)(3), a New Major Source is created if emission increases for a given pollutant at a new source or existing non-major source equals or exceeds the major source threshold for that pollutant, i.e. the project by itself would result in a net emission increase exceeding the major source threshold. The major source emission threshold for each criteria pollutant is specified in Rule 2201, Table 3-3 (8/15/19).

During this report's tracking period, there were no NMS projects finalized. Therefore, there was no NMS project mitigation necessary in this year's equivalency demonstration.

B. Federal Major Modification (FMM):

As defined in 40 CFR 51.165, Section (a)(1)(v) and part D of Title I of the CAA, a Federal Major Modification is any physical change in, or change in the method of operation of, a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the federal Clean Air Act. The significant net emission increase threshold for each criteria pollutant is specified in Rule 2201, Table 3-1 (8/15/19).

During this report's tracking period, there were fifteen (15) ATC projects that triggered a FMM. Of these fifteen (15) projects, three (3) projects were a FMM for NOx only, eight (8) projects were a FMM for VOC only, and four (4) were a FMM for both NOx and VOC. There were no projects finalized during this reporting period that triggered a FMM for SOx, PM10, or PM2.5.

Table 2: Federal Major Modification Projects

Tracking Period	NOx Only	VOC Only	NOx and VOC	SOx, PM10, or PM2.5	Total
2019-2020	3	8	4	0	15

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All FMM projects are individually identified in Appendix A.

C. Total Federal Offset Quantity Required

The total FOQ to be mitigated in this year's offset equivalency demonstration is shown in the table below:

Table 3: Total Federal Offsets Required (tpy)

Project Type	NOx	SOx	PM10	PM2.5	VOC
NMS	0.0	0.0	0.0	0.0	0.0
FMM	18.8	0.0	0.0	0.0	50.0
Total	18.8	0.0	0.0	0.0	50.0

The amount of federal offsets required for projects finalized during this report's tracking period is used to determine both Offset Quantity (Test 1) and Surplus Value (Test 2) equivalency.

IV. District Offsets Required During 2019-2020 Tracking Period

During this report's tracking period, sixteen (16) ATC projects triggered offsets under the District's local NSR rule, and ERCs were required to satisfy the offsetting requirements for these projects.

Table 4: Total District Offsets Required (tpy)

NOx	SOx	PM10	VOC
26.8	8.4	15.0	35.0

The total amount of District offsets required for projects finalized during this report's tracking period and the surplus value of those ERCs used to satisfy the offset obligation are used to determine both Offset Quantity (Test 1) and Surplus Value (Test 2) equivalency.

All District offset projects are individually identified in Appendix B.

V. Creditable Emission Reductions Generated During 2019-2020 Tracking Period

To satisfy surplus value (Test 2) equivalency, the District may use the surplus at time-of-use value of various categories of creditable emission reductions, including ERCs reserved/withdrawn, surrendered ERCs, Air Quality Improvement Deduction

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(the district portion of newly issued ERCs), orphan shutdowns, and BACT on existing minor sources.

Surplus reductions generated during a tracking year in excess of federal NSR requirements are allowed to be carried forward and used to demonstrate equivalency with federal offsetting requirements in future years provided the reductions remain surplus at time-of-use.

On September 17, 2020, the District's Governing Board provisionally removed emission reductions from orphan shutdowns, including agricultural engine electrification projects, from the District's offset equivalency system. With the provisional removal of these emissions reductions, the system was no longer able to demonstrate equivalency with the surplus value (Test 2) for NO_x and VOC. As the Rule 2201 surplus value (Test 2) remedy for NO_x and VOC was previously enacted, surplus reductions for NO_x and VOC will not be evaluated in this report.

The new surplus reductions generated and added as part of this equivalency demonstration are summarized in the following table.

Table 5: 2019-2020 New Surplus Reduction Summary (tpy)

Category	NO _x	SO _x	PM10	PM2.5	VOC
ERC Reserved/Withdrawn	n/a	2.3	15.1	0.0	n/a
ERCs Surrendered	n/a	0.0	0.0	0.0	n/a
ERCs Newly Issued (AQID)	n/a	0.0	0.1	0.0	n/a
Orphan Shutdowns	n/a	0.0	0.0	0.0	n/a
BACT on Minor Sources	n/a	0.0	0.0	0.0	n/a
Total	n/a	2.3	15.2	0.0	n/a

A. Emission Reduction Credits Reserved/Withdrawn

During this report's tracking period, there were sixteen (16) ATC projects for which ERC certificates were reserved/withdrawn to satisfy the offsetting requirements of District Rule 2201.

A detailed list of these ERC certificates is included in Appendix C-1.

B. Emission Reduction Credits Surrendered

No SO_x, PM10, or PM2.5 ERCs were surrendered during this reporting period.

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C. Air Quality Improvement Deduction

During this report's tracking period, there were two (2) new ERC banking projects finalized. Pursuant to District Rule 2201, Section 4.12, prior to banking Actual Emission Reductions (AER) for ERC certificates, the AER shall be discounted by 10 percent for Air Quality Improvement Deduction (AQID). The AQID is surplus of all federal rules and regulations at the time of banking and is included in the District's offset equivalency system as a surplus additional creditable reduction.

Individual ERC banking projects are included in Appendix C-2.

D. Orphan Shutdowns

On September 17, 2020, the District's Governing Board provisionally removed emission reductions from unbanked facility shutdowns ("orphan shutdowns") from the District's offset equivalency system. The District intends to work through a public process to develop mechanisms and methodologies for the use of these and other types of creditable emission reductions in demonstrating equivalency. Once EPA and CARB accepted mechanisms and methodologies are developed, the District will reintroduce the appropriate portion of the emission reductions from the provisionally withdrawn projects.

No mechanisms and methodologies to reintroduce these reductions have been approved as of the date of this report. Therefore, the surplus reductions from orphan shutdowns will not be considered in the equivalency demonstration for this tracking period.

E. BACT on Minor Source Projects

Pursuant to District Rule 2201, actual emission reductions in excess of any federal requirement, generated from control technologies required by the District's Best Available Control Technology (BACT) requirements for minor sources, are identified as surplus reductions. To date, the District has not used these surplus reductions to demonstrate offset equivalency as no mechanisms or methodologies to quantify the surplus value of these reductions have been approved as of the date of this report. Therefore, the surplus reductions from minor source BACT will not be considered in the equivalency demonstration for this tracking period.

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VI. Adjustments to Prior Year End Carry-Over Balances

Each year, prior to conducting the annual equivalency demonstration, it may be necessary to adjust the prior year end carry-over balances to account for cancelled and unimplemented projects, partially implemented projects, and the addition of prior year projects, ERCs, or other creditable emission reductions that were not accounted for previously. Additionally, the District must review new rules and regulations to determine if adjustments must be made to the surplus creditable reduction carry-over.

This year the District has conducted an extensive review of the projects and entries in the system, and made significant adjustments to the carry-over balances as part of the 2019-2020 demonstration. In addition to the categories listed above, the District also incorporated the effects of the Governing Board's removal of orphan shutdown and agricultural engine electrification projects. This action resulted in the inability to demonstrate NOx and VOC surplus value (Test 2) equivalency, and also resulted in the need to make adjustments to the surplus creditable reduction carry-over balances for PM10, PM2.5, and SOx. The District also determined that an adjustment was necessary to correct an issue affecting NOx and VOC for tracked federal projects during the period starting August 20, 2010, and ending August 19, 2014. Specifically, the appropriate extreme non-attainment federal offset ratio of 1.5 to 1 for NOx and VOC was not applied during this period. Lastly, the District identified a few ERC withdrawal projects that were associated with ATC projects that were deemed complete prior to August 20, 2001. Pursuant to Section 7.3.1 of Rule 2201, these projects were removed from the system because equivalency is only tracked for projects which submitted a complete application for ATC after August 20, 2001.

All adjustments made to the prior year end carry-over balances are presented below.

A. Offset Quantity (Test 1) Carry-Over Balance Adjustments

Table 6: Total Adjustments to Offset Quantity Carry-Over Balance (tpy)

Category	NOx	SOx	PM10	PM2.5	VOC
Adjustments to District Offset Quantity	(3,713.9)	(1,567.5)	(452.7)	(198.5)	(1,615.0)
Adjustments to Federal Offset Quantity	(230.0)	(128.6)	(77.0)	13.1	(1,193.0)
Addition of Prior Year Federal Major Modifications	(24.9)	0.0	0.0	0.0	(12.6)
Total Adjustment to Unused Carry-over	(3,968.8)	(1,696.1)	(529.7)	(185.4)	(2,820.6)

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1. *District and Federal Offset Quantity Adjustments*

For this year's offset equivalency demonstration, the District identified 670 project entries in the equivalency system that needed to be re-evaluated to account for potential adjustments to District Offset Quantity (DOQ) and FOQ. Once validated, the DOQ and FOQ for these project entries were adjusted, where necessary, and are reflected in the changes to the carry-over balances.

A list of adjustments to the DOQ and FOQ values for the Offset Quantity Carry-Over Balance is provided in Appendices D-1 and D-2.

2. *Pre 2019-2020 Federal Major Modification Projects Additions*

In addition to the FMM projects finalized in this report's tracking period, the District identified seven (7) additional ATC projects that triggered FMM and were finalized before this report's tracking period, but that were not included in previous annual offset equivalency reports. These additional FMM projects were added to this year's offset equivalency demonstration.

A list of all prior years' FMM projects are provided in Appendix D-3.

B. Surplus Creditable Reductions (Test 2) Carry-Over Balance Adjustments

Table 7: Total Adjustments to Unused Surplus Carry-over Creditable Reductions (tpy)

Category	NOx	SOx	PM10	PM2.5	VOC
Removal of Orphan Shutdown Projects	n/a	(338.0)	(1,146.7)	(613.5)	n/a
Removal of Ag Engine Electrification Projects	n/a	(3.0)	(56.8)	(46.8)	n/a
Re-surplusing of Prior Year Carry-over	n/a	(642.5)	0.0	0.0	n/a
Adjustments to District Offset Quantity	n/a	(590.0)	(302.7)	(175.8)	n/a
Adjustments to Federal Offset Quantity	n/a	(128.6)	(77.0)	13.1	n/a
Total Adjustment to Unused Carry-over	n/a	(1,702.2)	(1,583.2)	(823.0)	n/a

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1. *Orphan Shutdowns and Ag Engine Electrification Removal*

As discussed above, all emission reductions from orphan shutdown projects, including agricultural engine electrification projects, have been provisionally removed from the District's offset equivalency system. This action resulted in the inability to demonstrate NO_x and VOC surplus value (Test 2) equivalency effective September 17, 2020, and also resulted in the need to make adjustments to the surplus creditable reduction carry-over balances for PM₁₀, PM_{2.5}, and SO_x. The District has made the necessary adjustments as part of the 2019-2020 demonstration.

A list of the emissions reductions removed for orphan shutdowns and Ag engine electrification projects is provided in Appendices D-4 and D-5 respectively.

2. *Re-surplusing of Surplus Carry-Over Creditable Reductions*

Each year the District must review changes to rules and regulations to determine if adjustments must be made to the surplus carry-over creditable reduction balance. During this report's tracking period, the District identified a number of SO_x reductions in the surplus carry-over bank that required a surplus value discounting as a facility became subject to the requirements in 40 CFR 60, Subpart H, Standards of Performance for Sulfuric Acid Plants. Several ATC projects associated with these discounted SO_x reductions were reviewed during the District's DOQ and FOQ validation process. In some cases, the validation evaluations resulted in an adjustment to SO_x reductions in the equivalency system. In these cases, the re-surplusing of the SO_x reductions was performed following the DOQ and FOQ validation adjustment to the project.

Additionally, the District identified five (5) SO_x emission reduction credits that were previously used to provide 78.5 tons of excess mitigation of FOQs from NMS and FMM projects. In order to adjust for this issue, the District has removed 78.5 tons from the SO_x surplus carry-over balance and set the remaining surplus balance from each of the five (5) SO_x emission reduction credits to 0.0 tons per year.

A list of the total adjustment to the carry-over surplus bank due to the surplus value discounting discussed above is provided in Appendix D-6.

3. *District and Federal Offset Quantity Adjustments*

For this year's offset equivalency demonstration, the District identified 670 project entries in the equivalency system that needed to be re-evaluated to account for potential adjustments to DOQ and FOQ. Once validated, the

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DOQ and FOQ for these project entries were adjusted, where necessary, and are reflected in the changes to the carry-over balances. For purposes of surplus value (Test 2) equivalency, the adjustments to DOQ must be translated to the impact on the surplus value of those credits. Therefore, using the validated DOQ, the corresponding surplus value adjustments were determined for each impacted project and utilized in evaluating surplus value (Test 2) equivalency as reflected in Table 7 above.

A list of adjustments to the FOQ and DOQ values for the Surplus Carry-Over Creditable Reduction Balance is provided in Appendices D-2 and D-7.

VII. Annual Equivalency Demonstration - Offset Quantity Equivalency (Test 1)

The table below outlines the District's 2019-2020 equivalency demonstration for the Offset Quantity (Test 1) requirements specified in Section 7.2.1 of Rule 2201.

Table 8: Offset Quantity Equivalency Demonstration (tpy)

Pollutant	Number of New Major Sources	Number of Federal Major Mods	Offsets Required under Federal NSR	Offsets Required under District NSR	Current Year Excess or Shortfall	Previous Year-End Total Carry-over Excess or Shortfall	Year-to-Year Adjustment to Carry-over Balance	Year-End Total Carry-over Excess or Shortfall
NOx	0	7	18.8	26.8	8.0	4,319.9	(3,968.8)	359.1
VOC	0	12	50.0	35.0	(15.0)	733.4	(2,820.6)	(2,102.2)
PM10	0	0	0.0	15.1	15.1	837.5	(529.7)	322.9
PM2.5	0	0	0.0	0.0	0.0	377.7	(185.4)	192.3
CO	0	0	0.0	0.0	0.0	198.1	0.0	198.1
SOx	0	0	0.0	8.5	8.5	2,863.6	(1,696.1)	1,176.0

As shown in the table, there is a current year offset quantity excess for all pollutants except VOC, for which there is a 15.0 ton shortfall for the current year. Following the year-to-year adjustments to the prior year end carry-over balances, all pollutants, except for VOC, maintain a positive carry-over balance and thus remain offset quantity (Test 1) equivalent. For VOC, following the year-to-year adjustments to the prior year carry-over balance, there are not sufficient carry-over credits to mitigate the 15.0 ton shortfall in the current year. Therefore, VOC is no longer offset quantity (Test 1) equivalent as of the date of this report.

An explanation of the categories in the table is provided in Appendix E.

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VIII. Annual Equivalency Demonstration - Surplus Value Equivalency (Test 2)

The table below outlines the District’s 2019-2020 equivalency demonstration for the Surplus Value (Test 2) requirements specified in Section 7.2.2 of Rule 2201.

Table 9: Surplus Value Equivalency Demonstration (tpy)

Pollutant	Number of New Major Sources	Number of Federal Major Mods	Offsets Required under Federal NSR	Surplus Reductions Used for Equivalency This Year	Current Year Excess or Shortfall	Previous Year-End Total Carry-over Creditable Reductions	Year-to-Year Adjustment to Carry-over Balance	Current Year New Creditable Reductions	Year-End Total Carry-over Creditable Reductions
PM10	0	0	0.0	0.0	0.0	1,898.0	(1,583.2)	15.2	330.0
PM2.5	0	0	0.0	0.0	0.0	1,020.0	(823.0)	0.0	197.0
CO	0	0	0.0	0.0	0.0	763.0	0.0	0.0	763.0
SOx	0	0	0.0	0.0	0.0	2,038.0	(1,702.2)	2.3	338.2

As previously discussed, with the provisional removal of the emissions reductions associated with the orphan shutdown and AG-ICE projects, the system was no longer able to demonstrate equivalency with the surplus value test for NOx and VOC. Pursuant to the District’s NSR rule, effective September 17, 2020, the Rule 2201 remedy was enacted and all ATCs requiring NOx or VOC offsets under the NSR rule for a new major source or federal major modification are now required to supply ERCs with sufficient “surplus at time of use” credit at the time of ATC issuance. Therefore, surplus value (Test 2) equivalency was not evaluated for NOx and VOC in this report.

For the remainder of the pollutants, there were no NMS or FMM projects this tracking year. Following the year-to-year adjustments to the prior year carry-over balances, all remaining pollutants maintain a positive carry-over balance and thus remain surplus value (Test 2) equivalent.

An explanation of the categories in the table is provided in Appendix E.

IX. Implications of 2019-2020 Offset Equivalency Demonstration

A. VOC

Effective November 20, 2020, all new major sources or federal major modification projects triggering offsets for VOC under 40 CFR 51.165 and part D of Title I of the CAA are required to satisfy the full federal offset quantity and ERCs used to satisfy the offset requirements must be surplus at time of ATC issuance.

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B. NO_x

Effective September 17, 2020, NO_x was not Surplus Value (Test 2) equivalent. Since that time, pursuant to Section 7.4.2 of Rule 2201, any ATC requiring NO_x offsets under the District NSR rule for a new major source or federal major modification as defined by 40 CFR 51.165 and part D of Title I of the CAA has been required to supply ERCs that are surplus-at-time of ATC issuance.

As demonstrated above, NO_x remains Offset Quantity (Test 1) equivalent. Therefore, there is no change to the offset quantity requirement at this time.

C. PM₁₀, PM_{2.5}, and SO_x

As demonstrated above, PM₁₀, PM_{2.5}, and SO_x remain both Offset Quantity (Test 1) and Surplus Value (Test 2) equivalent. Therefore, there is no change to the offset quantity and ERC surplus value requirements at this time.

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Appendices

- A. NMS and FMM Projects Entered for the 2019-2020 Tracking Period
- B. ERCs Reserved/Withdrawn During the 2019-2020 Tracking Period
- C. Surplus Reductions Generated by the District NSR Rule
 - C-1: ERCs Reserved or Withdrawn
 - C-2: Air Quality Improved Deduction
- D. Adjustments to Offset Equivalency Carry-Over Balances
 - D-1: District Offset Quantity Adjustments
 - D-2: Federal Offset Quantity Adjustments
 - D-3: Prior Year Federal Major Modification Projects
 - D-4: Orphan Facility Shutdown Projects
 - D-5: Ag Engine Electrification Projects
 - D-6: Re-surplusing of Surplus Carry-Over Creditable Reductions
 - D-7: Surplus Adjustments Due to District Offset Quantity Adjustments
- E. Offset Equivalency Report Summary Table Glossary

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Appendix A

NMS and FMM Projects Entered for the 2019-2020 Tracking
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2019-20 Federal Major Modification Projects

Region	Facility ID	Facility	Project	Track Number	Final Date	NOx FOQ	VOC FOQ	PM10 FOQ	PM25 FOQ	SOx FOQ
S	36	SAN JOAQUIN REFINING CO	1190998	7308	02/20/2020	0	9.5	0	0	0
C	1080	SCELZI ENTERPRISES INC	1182078	7306	08/21/2019	0	18.9	0	0	0
S	1372	SENTINEL PEAK RESOURCES CA LLC	1190870	7307	09/20/2019	3.5	1.7	0	0	0
S	1131	CHEVRON USA INC	1192124	7309	09/25/2019	0.7	0	0	0	0
S	1372	SENTINEL PEAK RESOURCES CA LLC	1193903	7317	12/27/2019	3.5	1.7	0	0	0
S	3088	TRC CYPRESS GROUP LLC	1193387	7313	12/30/2019	0.6	0	0	0	0
N	3606	PACIFIC SOUTHWEST CONTAINER	1193364	7312	01/28/2020	0	6.6	0	0	0
S	1372	SENTINEL PEAK RESOURCES CA LLC	1193689	7316	02/19/2020	6.9	3.4	0	0	0
C	5870	KELPETRO OPERATING INC.	1193168	7310	03/11/2020	0	2.1	0	0	0
C	535	FRESNO/CLOVIS REGIONAL WWTP	1193231	7311	04/01/2020	0.1	0	0	0	0
N	9371	MCMANIS FAMILY VINEYARDS	1193660	7315	05/19/2020	0	0.6	0	0	0
S	37	KERN OIL & REFINING CO.	1201077	7319	06/30/2020	0	0.2	0	0	0
N	9371	MCMANIS FAMILY VINEYARDS	1200184	7318	08/07/2020	0	1.2	0	0	0
C	1234	SAN PABLO BAY PIPELINE COMPANY LLC	1193657	7314	08/11/2020	0	0.9	0	0	0
S	1328	BERRY PETROLEUM COMPANY LLC	1193430	7375	12/16/2019	3.5	3.2	0	0	0

Field Key:

- FOQ [pollutant] – Federal Offset Quantity for the project in tons per year

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Appendix B

ERCs Reserved/Withdrawn During the 2019-2020 Tracking
Period

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2019-2020 Projects with ERCs Reserved/Withdrawn

Region	Facility ID	Project	Facility Name	ERC Certificate	Track Number	NOx	VOC	PM10	SOx
C	1121	1192318	AERA ENERGY LLC	C-1399-1	7325	0.0	4.9	0.0	0.0
C	1234	1193657	SAN PABLO BAY PIPELINE COMPANY LLC	C-1501-1	7335	0.0	0.9	0.0	0.0
C	7537	1191302	CALIFORNIA RESOURCES PRODUCTION CORP	N-1196-2	7322	0.5	0.0	0.0	0.0
C	7537	1191302	CALIFORNIA RESOURCES PRODUCTION CORP	N-1219-2	7323	0.2	0.0	0.0	0.0
C	7537	1191302	CALIFORNIA RESOURCES PRODUCTION CORP	N-1233-2	7324	0.1	0.0	0.0	0.0
C	8694	1182309	MID VALLEY DISPOSAL	N-1498-1	7334	0.0	0.4	0.0	0.0
C	8694	1182309	MID VALLEY DISPOSAL	S-4969-1	7344	0.0	0.1	0.0	0.0
C	8694	1182309	MID VALLEY DISPOSAL	S-5097-1	7347	0.0	1.0	0.0	0.0
C	8694	1182309	MID VALLEY DISPOSAL	S-5098-1	7348	0.0	0.2	0.0	0.0
C	9251	1172884	DARLING INGREDIENTS, INC	N-1503-4	7336	0.0	0.0	0.5	0.0
C	9251	1172884	DARLING INGREDIENTS, INC	C-1485-4	7327	0.0	0.0	0.4	0.0
C	9251	1172884	DARLING INGREDIENTS, INC	C-1487-4	7328	0.0	0.0	0.4	0.0
C	9251	1172884	DARLING INGREDIENTS, INC	S-5113-4	7349	0.0	0.0	1.0	0.0
C	9251	1172884	DARLING INGREDIENTS, INC	S-5115-4	7350	0.0	0.0	2.9	0.0
C	9251	1172884	DARLING INGREDIENTS, INC	C-1482-4	7326	0.0	0.0	1.0	0.0
N	9371	1193660	MCMANIS FAMILY VINEYARDS	S-5170-1	7362	0.0	0.6	0.0	0.0
N	9371	1200184	MCMANIS FAMILY VINEYARDS	S-5170-1	7363	0.0	1.3	0.0	0.0
S	33	1202094	ALON BAKERSFIELD REFINING	S-5176-2	7365	0.1	0.0	0.0	0.0
S	33	1202094	ALON BAKERSFIELD REFINING	S-5179-1	7366	0.0	3.9	0.0	0.0
S	36	1190998	SAN JOAQUIN REFINING CO	S-4910-1	7343	0.0	9.5	0.0	0.0
S	37	1192411	KERN OIL & REFINING CO.	S-4982-1	7345	0.0	1.7	0.0	0.0
S	37	1192411	KERN OIL & REFINING CO.	S-5050-1	7346	0.0	0.5	0.0	0.0
S	1328	1193430	BERRY PETROLEUM COMPANY LLC	N-1533-4	7340	0.0	0.0	1.7	0.0
S	1328	1193430	BERRY PETROLEUM COMPANY LLC	N-1535-5	7341	0.0	0.0	0.0	1.6

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Region	Facility ID	Project	Facility Name	ERC Certificate	Track Number	NOx	VOC	PM10	SOx
S	1328	1193430	BERRY PETROLEUM COMPANY LLC	N-1537-2	7342	3.5	0.0	0.0	0.0
S	1328	1193430	BERRY PETROLEUM COMPANY LLC	S-5174-1	7364	0.0	3.1	0.0	0.0
S	1372	1190870	SENTINEL PEAK RESOURCES CA LLC	S-5138-4	7357	0.0	0.0	1.7	0.0
S	1372	1190870	SENTINEL PEAK RESOURCES CA LLC	N-1521-5	7338	0.0	0.0	0.0	1.6
S	1372	1190870	SENTINEL PEAK RESOURCES CA LLC	S-5134-2	7354	3.5	0.0	0.0	0.0
S	1372	1190870	SENTINEL PEAK RESOURCES CA LLC	C-1495-1	7331	0.0	1.7	0.0	0.0
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5194-4	7371	0.0	0.0	1.7	0.0
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5193-4	7372	0.0	0.0	1.7	0.0
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5192-5	7369	0.0	0.0	0.0	1.6
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5191-5	7370	0.0	0.0	0.0	1.6
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5190-2	7367	3.5	0.0	0.0	0.0
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5189-2	7368	3.5	0.0	0.0	0.0
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5196-1	7373	0.0	1.7	0.0	0.0
S	1372	1193689	SENTINEL PEAK RESOURCES CA LLC	S-5195-1	7374	0.0	1.7	0.0	0.0
S	1372	1193903	SENTINEL PEAK RESOURCES CA LLC	S-5139-4	7358	0.0	0.0	1.7	0.0
S	1372	1193903	SENTINEL PEAK RESOURCES CA LLC	N-1522-5	7339	0.0	0.0	0.0	1.4
S	1372	1193903	SENTINEL PEAK RESOURCES CA LLC	S-5136-5	7356	0.0	0.0	0.0	0.2
S	1372	1193903	SENTINEL PEAK RESOURCES CA LLC	S-5125-2	7353	0.2	0.0	0.0	0.0
S	1372	1193903	SENTINEL PEAK RESOURCES CA LLC	S-5135-2	7355	3.3	0.0	0.0	0.0
S	1372	1193903	SENTINEL PEAK RESOURCES CA LLC	C-1496-1	7332	0.0	0.6	0.0	0.0
S	1372	1193903	SENTINEL PEAK RESOURCES CA LLC	C-1497-1	7333	0.0	1.1	0.0	0.0
S	1624	1193935	E&B NATURAL RESOURCES MGMT	S-5147-5	7359	0.0	0.0	0.0	0.3
S	1624	1193935	E&B NATURAL RESOURCES MGMT	S-5149-2	7360	4.3	0.0	0.0	0.0
S	1624	1193935	E&B NATURAL RESOURCES MGMT	S-5151-2	7361	3.6	0.0	0.0	0.0
S	3088	1193387	TRC CYPRESS GROUP LLC	C-1489-4	7330	0.0	0.0	0.4	0.0
S	3088	1193387	TRC CYPRESS GROUP LLC	N-1513-5	7337	0.0	0.0	0.0	0.2

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Region	Facility ID	Project	Facility Name	ERC Certificate	Track Number	NOx	VOC	PM10	SOx
S	3088	1193387	TRC CYPRESS GROUP LLC	C-1489-2	7329	0.2	0.0	0.0	0.0
S	3088	1193387	TRC CYPRESS GROUP LLC	S-5117-2	7351	0.4	0.0	0.0	0.0
S	3088	1193387	TRC CYPRESS GROUP LLC	S-5119-1	7352	0.0	0.3	0.0	0.0

Field Key:

- [pollutant] – quantity of ERC provided to satisfy offset obligations (valued at time of banking) in tons per year

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Appendix C

Surplus Reductions Generated by the District NSR Rule

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Appendix C-1

ERCs Reserved or Withdrawn

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2019-2020 ERCs Reserved/Withdrawn Surplus Value

Region	Project	ERC Certificate	Track Number	NOx	VOC	PM10	SOx	Surplus NOx	Surplus VOC	Surplus PM10	Surplus SOx
C	1192318	C-1399-1	7325	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0
C	1193657	C-1501-1	7335	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
C	1191302	N-1196-2	7322	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1191302	N-1219-2	7323	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1191302	N-1233-2	7324	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1182309	N-1498-1	7334	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
C	1182309	S-4969-1	7344	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	1182309	S-5097-1	7347	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1182309	S-5098-1	7348	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
C	1172884	N-1503-4	7336	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
C	1172884	C-1485-4	7327	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0
C	1172884	C-1487-4	7328	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0
C	1172884	S-5113-4	7349	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
C	1172884	S-5115-4	7350	0.0	0.0	2.9	0.0	0.0	0.0	2.9	0.0
C	1172884	C-1482-4	7326	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
N	1193660	S-5170-1	7362	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
N	1200184	S-5170-1	7363	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
S	1202094	S-5176-2	7365	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1202094	S-5179-1	7366	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
S	1190998	S-4910-1	7343	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0
S	1192411	S-4982-1	7345	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
S	1192411	S-5050-1	7346	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0

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Region	Project	ERC Certificate	Track Number	NOx	VOC	PM10	SOx	Surplus NOx	Surplus VOC	Surplus PM10	Surplus SOx
S	1193430	N-1533-4	7340	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0
S	1193430	N-1535-5	7341	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6
S	1193430	N-1537-2	7342	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193430	S-5174-1	7364	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
S	1190870	S-5138-4	7357	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0
S	1190870	N-1521-5	7338	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
S	1190870	S-5134-2	7354	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1190870	C-1495-1	7331	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
S	1193689	S-5194-4	7371	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0
S	1193689	S-5193-4	7372	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0
S	1193689	S-5192-5	7369	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.1
S	1193689	S-5191-5	7370	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.1
S	1193689	S-5190-2	7367	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193689	S-5189-2	7368	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193689	S-5196-1	7373	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
S	1193689	S-5195-1	7374	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
S	1193903	S-5139-4	7358	0.0	0.0	1.7	0.0	0.0	0.0	1.7	0.0
S	1193903	N-1522-5	7339	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
S	1193903	S-5136-5	7356	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
S	1193903	S-5125-2	7353	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193903	S-5135-2	7355	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193903	C-1496-1	7332	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
S	1193903	C-1497-1	7333	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
S	1193935	S-5147-5	7359	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3

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Region	Project	ERC Certificate	Track Number	NOx	VOC	PM10	SOx	Surplus NOx	Surplus VOC	Surplus PM10	Surplus SOx
S	1193935	S-5149-2	7360	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193935	S-5151-2	7361	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193387	C-1489-4	7330	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0
S	1193387	N-1513-5	7337	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2
S	1193387	C-1489-2	7329	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193387	S-5117-2	7351	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1193387	S-5119-1	7352	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Field Key:

- [pollutant] – quantity of ERC provided to satisfy offset obligations (valued at time of banking) in tons per year
- Surplus [pollutant] – surplus value of ERC at time of ATC issuance (time of use) in tons per year

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Appendix C-2

Air Quality Improvement Deduction

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AQID from ERCs issued in 2019-2020

Region	Facility ID	Project	Facility Name	Track Number	Surplus PM10	Surplus PM25	Surplus SOx
S	209	1183831	JG BOSWELL CO	7320	0.01	0.00	0.00
S	49	1183979	CHEVRON USA INC	7321	0.06	0.06	0.00

Field Key:

- Surplus [pollutant] – surplus value of ERC in tons per year

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Appendix D

Adjustments to Offset Equivalency Carry-Over Balances

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Appendix D-1

District Offset Quantity Adjustments

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District Offset Quantity Adjustments

Region	Facility ID	Project	DOQ NOx	DOQ SOx	DOQ PM10	DOQ PM25	DOQ VOC	adj DOQ NOx	adj DOQ SOx	adj DOQ PM10	adj DOQ PM25	adj DOQ VOC
N	811	980147	34.1	0.0	0.0	0.0	41.8	0.0	0.0	0.0	0.0	0.5
S	1543	1000899	2.5	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0
S	1543	1001355	0.0	0.0	0.0	0.0	2.4	1.4	0.0	0.0	0.0	(0.5)
S	1132	1010080	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	(0.8)
S	2010	1010131	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.1)
S	1641	1010317	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
S	1543	1010630	0.0	0.0	0.0	0.0	33.1	0.0	0.0	0.0	0.0	0.0
S	1543	1010632	1.4	0.0	0.0	0.0	0.0	(1.2)	0.0	0.0	0.0	0.0
S	1548	1010633	7.0	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.1
N	3233	1010750	27.1	34.8	0.0	0.0	9.4	7.9	0.0	0.0	0.0	0.0
S	1135	1010868	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	5.7
S	1547	1010962	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	(0.8)
S	1135	1011029	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.2)
C	1380	1011237	0.0	0.0	16.1	2.0	0.0	0.0	0.0	(16.1)	(2.0)	0.0
N	4597	1011254	201.1	4.0	15.7	0.6	4.0	(0.1)	0.0	0.0	0.0	0.0
S	1792	1011269	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0
S	1548	1011304	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.3)
C	963	1011331	0.0	0.0	1.7	0.2	0.0	0.0	0.0	(1.7)	(0.2)	0.0
S	3412	1011383	710.7	72.8	49.7	20.2	49.0	(710.7)	(72.8)	(49.7)	(20.2)	(49.0)

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Region	Facility ID	Project	DOQ NOx	DOQ SOx	DOQ PM10	DOQ PM25	DOQ VOC	adj DOQ NOx	adj DOQ SOx	adj DOQ PM10	adj DOQ PM25	adj DOQ VOC
N	4607	1011408	147.9	0.0	140.4	132.1	0.0	(96.4)	0.0	(122.5)	(115.3)	0.0
N	4581	1011792	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1020015	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	(6.6)
S	1135	1020016	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	(2.4)
S	1135	1020019	0.0	0.0	0.0	0.0	16.6	0.0	0.0	0.0	0.0	(16.6)
N	4581	1020027	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1020073	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1020107	0.0	1.2	0.0	0.0	0.8	0.0	(1.2)	0.0	0.0	(0.8)
S	1547	1020136	0.0	20.0	0.0	0.0	0.0	0.0	(11.8)	0.0	0.0	0.0
S	1548	1020206	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	(8.8)
S	1547	1020249	0.0	8.0	0.0	0.0	0.0	0.0	(7.8)	0.0	0.0	0.0
S	3978	1020383	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	353	1020385	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	348	1020386	6.1	0.0	0.0	0.0	0.0	(4.3)	0.0	0.0	0.0	0.0
S	350	1020388	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1326	1020451	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1020463	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
S	382	1020524	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
S	33	1020545	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	(1.9)
S	3529	1020572	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.8
S	335	1020672	0.0	0.0	0.5	0.1	0.0	0.0	0.0	(0.5)	(0.1)	0.0

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Region	Facility ID	Project	DOQ NOx	DOQ SOx	DOQ PM10	DOQ PM25	DOQ VOC	adj DOQ NOx	adj DOQ SOx	adj DOQ PM10	adj DOQ PM25	adj DOQ VOC
S	75	1020710	60.1	0.0	0.0	0.0	0.0	(32.5)	0.0	0.0	0.0	0.0
S	75	1020711	60.1	0.0	0.0	0.0	0.0	(25.1)	0.0	0.0	0.0	0.0
S	1548	1020722	4.4	0.0	0.0	0.0	0.0	(4.4)	0.0	0.0	0.0	0.0
S	382	1020725	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)
S	984	1020746	4.6	0.0	0.0	0.0	0.0	(4.6)	0.0	0.0	0.0	0.0
S	1141	1020772	1.9	0.1	0.3	0.0	0.4	4.4	0.0	0.0	0.0	0.0
S	1128	1020815	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
C	3929	1020868	59.3	2.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
S	1246	1020894	2.1	0.0	0.3	0.3	0.0	1.2	0.0	0.2	0.2	0.3
S	1246	1020916	0.0	3.9	0.4	0.1	0.5	0.0	0.0	0.0	0.0	0.0
S	33	1020960	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	1547	1020978	0.0	2.0	0.0	0.0	0.0	0.0	(2.0)	0.0	0.0	0.0
S	1548	1020996	4.4	25.1	0.0	0.0	0.4	3.1	0.2	0.0	0.0	0.2
S	71	1021052	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0	2.9
S	3523	1021076	322.1	0.0	0.0	0.0	0.0	(322.1)	0.0	0.0	0.0	0.0
S	1141	1021081	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)
S	1135	1021132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3844	1021408	2.8	0.0	0.0	0.0	0.0	(2.8)	0.0	0.0	0.0	0.0
S	1128	1030647	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	(5.5)
N	4940	1030648	62.6	6.0	12.9	0.0	6.6	(10.8)	(6.0)	4.6	0.0	(5.0)
S	382	1030704	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)

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S	2076	1030705	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.2	0.2	0.0
S	1246	1031885	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	1.1
S	1246	1033042	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	1.7
S	2234	1040458	38.1	13.1	0.0	0.0	6.4	(38.1)	(13.1)	0.0	0.0	(6.4)
N	355	1040517	2.9	0.0	1.2	0.0	0.0	0.2	0.0	0.1	0.0	0.0
S	3636	1040705	243.4	465.6	0.0	0.0	155.7	0.0	0.0	0.0	0.0	0.0
S	1131	1041060	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	(1.5)
N	285	1041192	2.2	0.0	0.0	0.0	0.3	(1.7)	0.0	0.0	0.0	0.0
S	1548	1041246	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	1372	1041721	14.0	0.8	5.0	2.5	4.5	0.0	0.0	(1.3)	(0.6)	0.0
N	3696	1042295	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)	0.0	0.0
N	2052	1043007	15.6	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	72	1043086	2.4	0.0	0.0	0.0	0.0	(2.4)	0.0	0.0	0.0	0.0
S	1135	1043280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	603	1043492	0.0	19.2	0.0	0.0	0.0	0.0	25.8	0.0	0.0	0.0
S	1346	1043898	0.0	0.0	12.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6048	1043946	6.9	0.0	0.0	0.0	113.2	(6.9)	0.0	0.0	0.0	(113.2)
S	3585	1044033	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	(9.2)
S	1548	1044334	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	(6.1)
S	1548	1044467	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	(1.9)
S	1246	1050293	0.0	0.0	0.0	0.0	13.4	0.0	0.0	0.0	0.0	(9.7)

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S	1548	1050389	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.5
S	1128	1050458	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	(5.2)
S	6502	1050942	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	(8.5)
S	2234	1050952	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	(0.9)
C	6923	1051449	83.5	79.9	15.5	1.2	0.0	(1.5)	(39.9)	(4.1)	(0.3)	0.0
S	1129	1051655	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	(1.9)
S	1246	1052026	0.0	0.0	0.9	0.0	0.8	0.0	0.0	(0.9)	0.0	(0.8)
S	3636	1052027	252.4	41.0	0.0	0.0	0.0	(252.4)	(41.0)	0.0	0.0	0.0
N	2052	1052210	0.4	0.0	0.0	0.0	0.0	11.5	18.2	0.0	0.0	0.0
S	382	1053856	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	(0.1)
S	1129	1053864	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	3.4
N	7365	1054197	0.0	0.0	0.0	0.0	21.7	0.0	0.0	0.0	0.0	(21.7)
S	1372	1054372	7.0	0.4	1.4	1.1	2.3	0.0	0.0	0.0	0.0	0.0
S	1326	1054555	2.9	0.0	0.0	0.0	1.5	(2.9)	0.0	0.0	0.0	(1.5)
S	1548	1054675	2.4	0.1	0.1	0.0	0.2	(2.4)	(0.1)	(0.1)	0.0	(0.2)
S	1141	1054766	13.1	0.0	0.0	0.0	0.0	(4.3)	0.0	0.0	0.0	0.0
S	36	1055248	5.8	0.0	0.0	0.0	0.0	(1.6)	0.0	0.0	0.0	0.0
S	1346	1060032	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	608	1060086	5.2	0.0	0.0	0.0	4.4	(2.6)	0.0	0.0	0.0	0.0
S	1128	1060363	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	(8.4)
S	6788	1060449	0.0	0.0	21.8	1.5	0.0	0.0	0.0	(21.8)	(1.5)	0.0

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C	7126	1060669	0.0	20.0	0.0	0.0	0.0	0.0	(20.0)	0.0	0.0	0.0
C	5203	1060791	0.0	7.8	0.0	0.0	7.4	0.0	(7.8)	0.0	0.0	(7.4)
S	1372	1061054	1.1	5.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1
S	33	1061149	70.9	25.8	0.0	0.0	85.0	(70.9)	(25.8)	0.0	0.0	(85.0)
S	2010	1061472	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	(0.1)
C	4261	1061750	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	(2.5)
S	1327	1061931	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
N	7402	1061932	0.0	7.6	0.0	0.0	0.0	0.0	(7.6)	0.0	0.0	0.0
N	7488	1062063	5.0	0.0	0.0	0.0	0.0	(5.0)	0.0	0.0	0.0	0.0
S	2234	1062249	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	(0.1)
S	1114	1062358	9.2	0.0	0.0	0.0	0.0	(1.7)	0.0	0.0	0.0	0.0
C	7220	1062518	276.0	6.2	55.5	70.1	88.5	(145.6)	56.1	(19.4)	(24.5)	(58.0)
S	1129	1062524	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	(5.4)
S	3303	1062741	0.0	0.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	(10.8)
S	33	1062742	0.0	0.0	0.0	0.0	52.2	0.0	0.0	0.0	0.0	(52.2)
S	382	1062781	12.2	0.4	0.0	0.0	0.7	(0.6)	(0.2)	0.0	0.0	0.0
N	829	1062958	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0
S	1327	1063135	2.7	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0
S	6900	1063256	1.3	12.2	0.0	0.0	20.7	(1.3)	(12.2)	0.0	0.0	(20.7)
S	2234	1063316	6.2	0.5	0.0	0.0	3.3	(1.3)	(0.1)	0.0	0.0	(1.1)
C	7286	1063535	34.2	28.6	0.0	0.0	0.0	(0.6)	(13.9)	0.0	0.0	0.0

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C	801	1063613	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1063768	0.3	0.0	0.0	0.0	0.0	(0.3)	0.0	0.0	0.0	0.3
S	1246	1063816	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1063866	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	(0.6)
S	2010	1063897	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0
S	1327	1063940	6.1	0.0	0.0	0.0	0.0	(6.1)	0.0	0.0	0.0	0.0
S	2234	1064023	18.2	1.5	0.0	0.0	20.6	(3.1)	(0.2)	0.0	0.0	(3.6)
S	3585	1064117	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	(10.0)
S	2234	1064167	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.2)
S	1246	1064789	0.0	2.1	0.8	0.0	0.6	0.0	0.0	0.0	0.0	0.2
S	1128	1065121	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0
C	4312	1070027	0.0	20.1	0.0	0.0	0.0	0.0	(20.1)	0.0	0.0	0.0
C	5719	1070348	0.0	17.7	0.0	0.0	0.0	0.0	(17.7)	0.0	0.0	0.0
S	1128	1070377	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	(1.2)
S	1246	1070443	4.5	1.6	2.8	0.0	3.1	0.1	0.0	0.0	0.0	0.0
S	1246	1070497	0.0	0.4	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0
C	379	1070545	0.0	0.0	16.0	0.0	0.0	0.0	0.0	(8.0)	0.0	0.0
S	1128	1070620	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	(7.1)
S	6848	1070932	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3
S	1626	1071070	4.0	0.0	0.0	0.0	0.0	(4.0)	0.0	0.0	0.0	0.0
S	39	1071300	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	(0.4)

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S	4073	1071437	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	2.5
S	33	1071447	0.0	0.0	0.0	0.0	32.2	0.0	0.0	0.0	0.0	(32.2)
S	39	1071454	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	(0.4)
S	1129	1071457	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	(3.3)
C	801	1071474	0.0	0.0	0.4	0.1	0.0	0.0	0.0	(0.4)	(0.1)	0.0
S	2010	1071649	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	(0.1)
C	705	1071722	0.0	3.1	0.0	0.0	0.0	0.0	(1.5)	0.0	0.0	0.0
S	1372	1071954	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	(2.0)
S	1547	1072356	39.8	34.9	5.6	0.0	20.1	0.0	(5.3)	1.4	0.0	0.0
C	283	1072627	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	(0.1)	33.7
S	2010	1073281	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	(7.4)
S	1548	1073282	0.0	0.0	0.0	0.0	39.0	0.0	0.0	0.0	0.0	(3.4)
S	3103	1073298	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4261	1073682	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
C	214	1073801	1.1	0.0	0.0	0.0	0.4	(0.2)	0.0	0.0	0.0	0.0
C	6048	1073961	0.0	0.0	0.0	0.0	45.4	0.0	0.0	0.0	0.0	(45.4)
N	1662	1074121	0.0	0.0	5.9	5.8	0.0	0.0	0.0	(0.1)	(0.1)	0.0
C	1077	1074133	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	(0.7)
N	7488	1074155	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0	(11.3)
S	39	1074194	6.2	0.0	0.0	0.0	1.0	(3.1)	0.0	0.0	0.0	0.0
S	1128	1074216	0.0	0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0	(5.8)

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S	4212	1074218	0.0	0.0	0.0	0.0	201.0	0.0	0.0	0.0	0.0	(95.7)
S	2010	1074281	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	(3.6)
N	7478	1074407	2.6	0.0	0.0	0.0	0.0	(2.6)	0.0	0.0	0.0	2.6
S	2234	1074518	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	(0.7)
S	1141	1074702	0.0	46.3	14.5	5.4	0.0	0.0	(5.4)	0.0	0.0	0.0
S	3585	1075277	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1075579	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)
S	4073	1080106	3.9	2.0	0.0	0.0	0.0	51.9	0.0	0.0	0.0	0.0
N	1758	1080120	0.0	0.0	6.6	0.3	0.0	0.0	0.0	2.6	0.1	0.0
S	36	1080240	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	1246	1080246	5.1	1.6	2.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
S	7063	1080272	11.7	13.7	0.7	0.5	0.0	(3.0)	0.0	(0.7)	(0.5)	0.0
S	1141	1080278	0.0	124.8	0.0	0.0	0.0	0.0	(124.8)	0.0	0.0	0.0
C	629	1080354	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	(0.5)
C	3953	1080386	104.3	193.5	1.8	1.4	37.2	(104.3)	(193.5)	(1.8)	(1.4)	(37.2)
S	1738	1081017	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.7
S	1548	1081064	0.0	0.0	0.0	0.0	66.6	0.0	0.0	0.0	0.0	4.0
S	1372	1081413	5.3	1.7	4.2	0.5	1.7	(1.2)	(0.1)	0.0	0.0	0.0
N	477	1082005	0.3	0.0	6.0	0.7	0.0	(0.3)	0.0	(6.0)	(0.7)	0.0
C	276	1082047	11.1	0.0	0.0	0.0	24.3	(11.1)	0.0	0.0	0.0	(24.3)
C	447	1082417	4.1	0.0	0.0	0.0	0.0	(4.1)	0.0	0.0	0.0	0.0

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S	1548	1082419	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	(1.3)
S	1246	1082447	10.0	1.6	3.3	0.1	0.0	(4.5)	0.0	0.0	0.0	0.0
S	1141	1082456	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.5)
S	3585	1082526	1.0	0.0	0.0	0.0	0.0	(1.0)	0.0	0.0	0.0	0.0
S	3585	1082865	1.5	0.0	0.0	0.0	0.0	3.4	0.3	0.0	0.0	0.0
S	1372	1082885	30.3	3.2	0.0	0.0	3.4	(15.3)	(1.6)	0.0	0.0	(1.7)
C	1683	1083022	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
C	628	1083159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4140	1083169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3929	1083176	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1131	1083203	3.6	0.2	0.4	0.0	3.4	(1.8)	(0.1)	(0.2)	0.0	(1.7)
N	4597	1083212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1083337	1.2	0.0	0.0	0.0	6.2	9.0	0.0	0.0	0.0	3.0
S	1327	1083338	60.8	0.0	0.0	0.0	15.9	(56.1)	0.0	0.0	0.0	(12.5)
N	2697	1083490	152.6	75.0	15.5	1.1	25.2	(37.9)	(25.3)	0.1	0.0	(0.2)
N	3233	1083510	34.5	53.5	0.7	0.7	49.2	(3.0)	(30.8)	0.0	0.0	(8.8)
C	273	1083699	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	25.1
S	1626	1083749	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.4)
C	283	1083923	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	(12.2)
S	1246	1083924	2.3	15.2	0.0	0.0	8.0	9.9	(11.1)	11.0	0.0	0.0
S	2010	1083927	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0

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S	1547	1084210	33.5	59.7	0.0	0.0	12.3	(6.7)	(6.4)	0.0	0.0	(1.3)
S	1547	1084406	23.8	0.0	0.0	0.0	0.0	(23.8)	0.0	0.0	0.0	0.0
S	1135	1084419	0.0	15.2	0.0	0.0	0.0	0.0	(15.2)	0.0	0.0	0.0
S	6848	1084448	0.0	0.0	0.0	0.0	6.7	4.7	0.0	0.0	0.0	(3.3)
S	39	1084478	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.3)
S	1128	1084509	20.6	0.0	6.7	0.0	9.2	(8.2)	3.2	0.0	0.0	0.0
S	33	1084518	4.2	3.1	4.1	4.1	27.0	(4.2)	(3.1)	(4.1)	(4.1)	(27.0)
S	1114	1084594	5.8	7.7	0.0	0.0	3.9	(3.7)	(5.7)	5.4	0.0	0.0
S	1128	1084693	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	(1.5)
S	1216	1084991	6.6	1.0	0.0	0.0	4.2	(6.6)	(1.0)	0.0	0.0	(4.2)
S	1128	1085002	6.9	0.0	0.0	0.0	0.0	(6.9)	0.0	0.0	0.0	0.0
S	1216	1085102	1.7	0.0	0.0	0.0	1.8	(1.7)	0.0	0.0	0.0	(1.8)
S	1216	1085106	5.2	0.4	0.0	0.0	2.2	(5.2)	(0.4)	0.0	0.0	(2.2)
S	548	1085134	4.2	1.2	0.0	0.0	0.7	(0.9)	2.1	0.0	0.0	(0.4)
S	1385	1085370	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.5)
N	7365	1091307	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	(0.4)
N	3299	1091384	106.2	40.5	0.0	0.0	18.3	0.0	0.0	0.0	0.0	0.0
S	1548	1091457	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
S	1128	1092332	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	(0.9)
N	266	1092405	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1092523	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	(1.6)

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S	2010	1092524	51.0	0.0	19.2	7.1	33.0	(51.0)	0.0	(19.2)	(7.1)	(33.0)
S	71	1092535	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	(4.2)
S	3585	1092704	0.0	4.7	0.0	0.0	0.0	0.0	(0.5)	0.0	0.0	0.0
C	276	1093286	11.1	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	29.4
S	7616	1093741	305.0	274.0	0.0	0.0	68.1	(305.0)	(274.0)	0.0	0.0	(68.1)
S	4073	1093857	0.0	4.0	0.0	0.0	0.0	0.0	(4.0)	0.0	0.0	0.0
S	1246	1093864	7.2	25.6	0.0	0.0	12.1	0.1	(0.1)	0.0	0.0	0.2
S	2010	1093933	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	(8.9)
S	37	1094422	0.7	2.0	0.0	0.0	1.0	(0.7)	(2.0)	0.0	0.0	(1.0)
S	2010	1094945	0.0	0.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	(7.9)
S	2234	1094956	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	2010	1095026	0.0	0.0	0.0	0.0	29.2	0.0	0.0	0.0	0.0	(14.6)
S	1128	1095027	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	0.0	(14.3)
S	1141	1095192	0.0	1.4	7.7	2.6	0.0	0.0	0.0	(5.0)	(1.7)	0.0
S	1128	1095193	0.0	1.4	0.0	0.0	0.5	0.0	(0.6)	0.0	0.0	0.3
S	3585	1095655	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0
N	3386	1100247	5.1	0.0	0.0	0.0	0.0	(5.1)	0.0	0.0	0.0	0.0
S	2010	1100306	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
N	96	1100320	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	7940	1100454	0.0	0.0	0.7	0.1	0.0	0.0	0.0	(0.7)	(0.1)	0.0
S	2010	1100701	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	(2.8)

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S	37	1100705	0.7	2.0	0.0	0.0	1.0	(0.7)	(2.0)	0.0	0.0	(1.0)
N	956	1101336	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	629	1101398	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
S	1128	1101450	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	(4.4)
C	2872	1101828	1.0	0.0	0.0	0.0	0.0	(0.5)	0.0	0.0	0.0	0.0
C	311	1102455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1102743	0.0	0.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	0.0
S	4080	1102816	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	904	1102936	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	799	1102958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	801	1103119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	801	1103288	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
S	3007	1103330	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1624	1103331	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	36	1103459	0.4	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
S	1326	1103505	4.5	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
N	717	1103540	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1103628	18.6	15.0	0.0	0.0	20.8	(9.3)	0.3	0.0	0.0	(10.3)
C	629	1103740	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0
N	1919	1103895	1.8	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
S	3636	1103990	242.3	23.0	0.0	0.0	22.0	(242.3)	(23.0)	0.0	0.0	(22.0)

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S	7857	1104195	43.0	26.5	0.0	0.0	0.0	(43.0)	(26.5)	0.0	0.0	0.0
S	1548	1104268	0.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	(14.0)
S	33	1104286	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
S	1703	1104570	3.9	1.7	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
S	1326	1104728	9.0	0.0	0.0	0.0	6.2	(4.5)	0.0	0.0	0.0	(3.1)
S	36	1104824	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1518	1104897	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1105279	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1237	1110129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
S	1246	1110237	0.0	0.0	8.8	0.0	0.0	23.7	12.0	11.8	0.0	0.0
C	535	1110245	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	956	1110256	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1110265	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7855	1110296	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	447	1110475	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0
S	1128	1110599	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	(14.9)
S	1372	1110679	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0
N	1237	1110722	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.0	0.0	(10.1)
S	1327	1110750	4.9	3.3	0.0	0.0	0.0	(4.9)	(3.3)	0.0	0.0	0.0
S	1329	1110921	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1385	1110944	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0

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S	4034	1110967	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	7048	1110978	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)
S	7063	1111009	0.5	8.0	0.0	0.0	0.0	(0.5)	(8.0)	0.0	0.0	0.0
S	1246	1111128	35.8	22.3	0.0	0.0	0.0	(22.4)	(5.5)	0.0	0.0	0.0
S	1246	1111129	9.8	14.0	0.0	0.0	3.1	(5.3)	(8.4)	0.0	0.0	0.0
C	799	1111164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	377	1111177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3386	1111273	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	(0.8)
S	1372	1111509	0.4	1.9	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
S	1246	1111510	8.8	5.6	0.0	0.0	3.1	(4.4)	0.0	0.0	0.0	0.0
S	1737	1111515	0.2	0.0	0.0	0.0	0.0	(0.2)	0.0	0.0	0.0	0.0
C	6048	1111582	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.4
C	799	1111651	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1111779	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
N	3386	1111823	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
S	1246	1111824	22.3	21.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
S	1346	1111873	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1111901	18.0	22.4	0.0	0.0	6.2	(9.1)	(11.2)	0.0	0.0	(0.1)
S	1246	1111902	13.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1111928	11.3	16.7	0.0	0.0	3.1	(6.8)	(10.2)	0.0	0.0	0.0
S	1246	1111978	22.3	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	1326	1112303	13.4	4.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0
S	1385	1112529	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	(0.8)
C	6048	1112854	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	276	1112871	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	(6.9)
C	629	1113210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	477	1113227	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	629	1113230	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.3
C	447	1113298	0.5	0.0	0.0	0.0	0.0	(0.1)	0.0	0.0	0.0	2.6
N	1237	1113344	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.6
S	33	1113367	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
N	1237	1113395	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
N	1237	1113407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3309	1113445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3309	1113446	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3852	1113462	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1113576	135.4	120.9	0.0	0.0	50.7	(135.4)	(120.9)	0.0	0.0	(50.7)
S	1548	1113577	0.0	0.0	0.0	0.0	36.9	0.0	0.0	0.0	0.0	(36.9)
N	7478	1113684	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1703	1113747	3.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1113786	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
N	1237	1113864	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8

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N	266	1113968	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1114061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1114091	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1114222	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
S	1326	1114230	0.7	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
S	1624	1114353	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1114442	3.8	4.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0
S	1327	1114449	13.6	7.4	0.0	0.0	1.4	(13.6)	(7.4)	0.0	0.0	(1.4)
S	1327	1114465	12.8	4.1	0.0	0.0	8.0	(12.8)	(4.1)	0.0	0.0	(8.0)
S	37	1114600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1114735	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1114818	10.6	5.4	4.3	0.5	5.1	(5.8)	(0.5)	(4.3)	(0.5)	(2.0)
S	2760	1114825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	713	1114855	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2980	1114893	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1737	1120071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3115	1120109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1624	1120238	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	608	1120252	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8347	1120254	35.9	0.0	1.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0
C	3275	1120258	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2

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S	377	1120294	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	956	1120314	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1120328	0.6	0.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0
N	7855	1120343	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1216	1120347	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
S	1326	1120405	13.4	10.1	0.0	0.0	9.2	0.0	(5.3)	0.0	0.0	0.0
C	5870	1120431	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
S	1624	1120528	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	266	1120591	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1703	1120718	3.9	1.6	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
C	315	1120796	0.0	0.0	0.0	0.0	12.9	0.0	0.0	0.0	0.0	(12.9)
S	1738	1120872	5.0	0.6	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0
N	1275	1121076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7478	1121092	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	(0.3)
S	1624	1121188	15.3	0.0	0.0	0.0	0.0	(2.1)	0.0	0.0	0.0	0.0
S	382	1121353	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	1738	1121355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1121401	5.3	4.7	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
S	8170	1121534	75.2	0.0	0.0	0.0	126.2	(75.2)	0.0	0.0	0.0	(126.2)
S	37	1121674	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
N	7478	1121902	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0

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S	7616	1121903	281.4	182.0	0.0	0.0	52.2	(281.4)	(182.0)	0.0	0.0	(52.2)
S	2273	1121912	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1237	1121959	21.0	0.0	0.0	0.0	0.1	(15.2)	0.0	0.0	0.0	3.8
S	2980	1122041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2980	1122378	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	283	1122501	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2918	1122546	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	377	1122706	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1237	1122834	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	1.5
N	1665	1123083	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	(0.6)
C	447	1123332	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.0
C	315	1123349	0.0	0.0	0.0	0.0	43.8	0.0	0.0	0.0	0.0	(43.8)
S	1737	1123486	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1123499	26.8	10.1	0.0	0.0	32.4	0.0	0.0	0.0	0.0	(14.0)
N	96	1123569	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1123575	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0
N	1237	1123583	0.0	0.0	0.0	0.0	25.7	0.0	0.0	0.0	0.0	0.0
S	1327	1123645	31.6	24.5	0.0	0.0	10.9	(14.2)	(13.7)	0.0	0.0	(1.5)
S	1624	1123679	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1237	1123806	8.6	0.0	0.0	0.0	10.0	(6.2)	0.0	0.0	0.0	(9.9)
S	1326	1124099	0.4	0.0	0.0	0.0	0.0	(0.4)	0.0	0.0	0.0	0.0

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S	1703	1124232	15.6	2.2	0.0	0.0	6.2	(7.8)	1.2	0.0	0.0	(0.1)
S	1624	1124268	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
S	2010	1124301	14.1	35.4	7.4	0.0	0.5	(14.1)	(35.4)	(7.4)	0.0	(0.5)
S	1246	1124303	9.0	5.6	0.0	0.0	3.1	(4.5)	0.0	0.0	0.0	0.0
S	382	1124364	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	1246	1124502	8.6	9.2	11.1	4.2	0.0	(0.6)	0.4	0.1	0.0	0.0
S	36	1130003	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
N	956	1130012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1624	1130129	12.3	4.0	0.6	0.0	0.0	(5.5)	(0.4)	(0.3)	0.0	0.0
N	3606	1130130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1807	1130131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	447	1130134	0.0	0.0	0.0	0.0	54.9	0.0	0.0	0.0	0.0	(11.8)
N	4939	1130191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1130232	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	(2.5)
S	6509	1130396	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1130397	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
S	8282	1130506	18.8	0.6	2.3	0.9	1.3	(9.4)	0.0	1.0	0.4	0.4
S	377	1130510	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7478	1130542	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	(1.0)
S	1326	1131067	1.0	0.0	0.3	0.3	0.5	0.0	0.0	0.0	0.0	0.0
N	1275	1131080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	382	1131243	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7855	1131345	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1131410	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	(1.4)
N	1275	1131453	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1237	1131559	0.0	0.0	0.0	0.0	40.8	0.0	0.0	0.0	0.0	(2.9)
S	8282	1131613	0.8	0.0	0.0	0.0	0.0	(0.8)	0.0	0.0	0.0	0.0
N	1237	1131615	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	35.9
S	377	1131768	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1646	1131851	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8887	1132068	0.0	0.0	0.0	0.0	4.4	0.1	0.0	0.0	0.0	0.0
C	801	1132203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1132264	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
C	120	1132537	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1976	1132542	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7365	1132556	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	(0.7)
N	4939	1132719	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	311	1132740	52.2	17.5	19.7	0.0	33.8	(47.5)	(15.9)	(17.9)	0.0	(30.7)
S	377	1132837	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1737	1132866	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1237	1132991	0.0	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0	(7.2)
S	37	1133043	4.8	1.5	3.5	1.3	1.3	(4.8)	(1.5)	(3.5)	(1.3)	(1.3)

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S	6848	1133056	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	3.4
N	3309	1133139	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0
N	3386	1133147	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
C	447	1133176	0.8	0.0	0.0	0.0	5.2	(0.4)	0.0	0.0	0.0	(2.6)
N	2321	1133189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1738	1133220	1.4	0.1	0.0	0.0	0.7	(0.1)	(0.1)	0.0	0.0	0.0
C	447	1133313	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7478	1133328	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0
S	1246	1133332	9.0	5.6	6.1	3.6	6.1	(0.1)	0.0	0.0	0.0	0.0
C	447	1133347	0.0	0.0	0.0	0.0	29.4	0.0	0.0	0.0	0.0	(29.4)
N	2321	1133440	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1133502	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8282	1133525	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.4)
S	8282	1133536	12.1	0.8	4.2	0.9	4.0	0.0	(0.1)	0.0	0.0	(1.8)
N	1237	1133659	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1133661	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1326	1133785	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1133786	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	6848	1133800	1.6	0.2	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
S	1326	1133970	1.3	3.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
S	1327	1133983	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	1738	1134181	3.1	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.1
S	3303	1134223	0.0	0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.0	(19.4)
S	33	1134224	0.0	3.9	2.2	0.0	0.0	0.0	(3.9)	(2.2)	0.0	0.0
S	382	1134253	4.7	5.8	0.0	0.0	3.4	(4.7)	(5.8)	0.0	0.0	(3.4)
S	1738	1134305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1134319	1.1	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0
S	4034	1134445	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	7059	1134490	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1738	1134513	1.0	0.0	0.0	0.0	0.0	(1.0)	0.0	0.0	0.0	0.0
S	3317	1134520	2.4	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0
S	6509	1134631	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1134679	0.0	0.0	0.0	0.0	26.5	0.0	0.0	0.0	0.0	(2.8)
S	1548	1140111	0.0	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0	(14.4)
S	1329	1140115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	608	1140284	3.1	0.0	0.0	0.0	0.0	(0.2)	0.0	0.0	0.0	0.0
S	1327	1140286	1.1	3.9	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0
S	1326	1140292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	83	1140301	0.0	0.0	0.0	0.0	10.1	0.0	0.0	0.0	0.0	0.0
S	1703	1140337	3.9	0.0	1.7	0.2	3.1	0.0	0.0	0.0	0.0	0.0
C	629	1140372	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6509	1140440	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	49	1140493	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	(1.0)
S	6509	1140506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1131	1140568	25.7	12.5	0.0	0.0	15.4	(16.8)	(8.1)	0.0	0.0	(9.3)
S	1372	1140709	3.5	3.3	1.1	0.1	1.7	(0.1)	0.0	(1.1)	(0.1)	0.0
S	1372	1140710	3.4	1.6	1.7	0.2	1.7	0.0	0.0	0.0	0.0	0.0
C	311	1140728	27.5	23.7	0.0	0.0	21.5	(22.8)	(20.3)	0.0	0.0	(18.4)
S	382	1140870	2.1	0.0	0.1	0.1	7.1	(2.1)	0.0	(0.1)	(0.1)	(7.1)
S	1128	1140935	0.0	0.0	0.0	0.0	17.9	0.0	0.0	0.0	0.0	(0.3)
N	1662	1141107	23.6	21.1	5.8	5.3	0.0	(5.5)	0.0	0.7	0.6	0.0
S	1327	1141288	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
C	8694	1141302	0.0	0.0	0.0	0.0	13.2	0.0	0.0	0.0	0.0	0.0
S	1372	1141425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	238	1141447	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1141607	3.1	6.4	0.4	0.0	2.8	0.0	0.0	0.0	0.0	0.0
S	2010	1141623	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8282	1141816	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1141820	15.7	1.2	0.0	0.0	19.2	(11.1)	(0.9)	0.0	0.0	(14.4)
S	6509	1141881	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	629	1141976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1142135	9.0	5.0	6.1	3.6	6.1	(0.1)	0.6	0.0	0.0	0.0
S	1326	1142341	0.0	0.0	0.0	0.0	0.4	1.2	0.0	0.0	0.0	0.0

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S	8282	1142405	12.1	4.9	0.0	0.0	2.2	0.0	(4.2)	2.8	0.0	(0.1)
N	645	1142618	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	4.4
N	1662	1142733	4.8	0.0	0.3	0.3	0.3	(4.8)	0.0	(0.3)	(0.3)	(0.3)
S	8282	1142829	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	(0.7)
S	377	1142949	2.1	0.0	0.0	0.0	0.0	(2.1)	0.0	0.0	0.0	0.0
N	238	1143155	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0
S	1738	1143395	10.9	4.3	0.0	0.0	1.9	(0.3)	0.1	0.0	0.0	0.0
S	1326	1143483	13.4	16.3	0.0	0.0	15.9	0.0	(6.5)	0.0	0.0	(6.7)
S	1114	1143503	0.0	0.0	0.5	0.0	0.1	0.7	0.2	0.0	0.0	0.0
S	8452	1143709	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	(0.6)
S	36	1143794	5.7	0.0	0.0	0.0	0.0	(1.4)	0.0	0.0	0.0	0.0
S	1246	1143823	4.5	2.8	3.1	0.8	3.1	0.0	0.0	0.0	0.0	0.0
S	1326	1143842	0.0	0.2	0.1	0.0	0.1	0.0	(0.2)	(0.1)	0.0	(0.1)
S	1326	1143901	0.5	0.5	0.3	0.0	0.1	(0.5)	(0.5)	(0.3)	0.0	(0.1)
S	1327	1143925	1.3	3.9	0.0	0.0	1.6	0.0	0.0	0.0	0.0	(0.7)
S	1246	1144079	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	(3.6)
S	1246	1144245	13.4	8.4	12.7	12.5	9.2	0.0	0.0	0.0	0.0	0.0
S	1246	1144246	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	(1.9)
S	1328	1144248	8.9	5.6	8.5	8.4	3.2	0.0	0.0	0.0	0.0	2.9
S	1203	1144293	0.0	0.8	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
S	37	1144438	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0

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S	1128	1144548	33.2	27.0	0.0	0.0	0.0	(33.2)	(27.0)	0.0	0.0	0.0
S	1246	1144567	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	(6.1)
S	1326	1150086	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.7
C	629	1151244	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3585	1151709	4.5	0.0	4.2	4.1	3.1	(4.5)	0.0	(4.2)	(4.1)	(3.1)
S	1547	1151973	0.0	0.0	0.0	0.0	0.0	18.4	20.6	0.0	0.0	7.9
S	1246	1151996	15.0	14.4	18.7	8.2	4.3	(7.6)	1.3	(18.7)	(8.2)	(2.2)
S	1246	1151997	0.0	0.0	0.0	0.0	0.0	7.4	15.7	0.0	0.0	2.1
S	1346	1152035	0.2	0.0	2.0	2.0	0.0	1.4	0.0	0.0	0.0	0.0
C	7748	1152363	4.1	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0
S	1807	1152825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	273	1153011	0.0	0.0	0.0	0.0	109.0	0.0	0.0	0.0	0.0	(109.0)
S	6971	1153325	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.8
S	2234	1153552	0.0	0.0	0.0	0.0	32.3	0.0	0.0	0.0	0.0	5.0
S	1624	1153553	3.5	0.0	0.1	0.1	0.0	0.0	0.0	1.9	1.9	0.0
S	525	1153671	13.4	5.4	2.5	1.4	2.5	(13.4)	(5.4)	(2.5)	(1.4)	(2.5)
S	1738	1153753	2.2	0.0	0.2	0.0	2.2	0.0	0.0	0.1	0.0	0.0
N	956	1160024	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	(0.4)
N	3309	1160121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
C	3609	1160266	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0
C	8609	1160267	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0

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S	1547	1160356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1160507	0.0	0.0	0.0	0.0	10.1	0.0	0.0	0.0	0.0	(4.6)
N	238	1160542	6.1	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
S	6971	1160740	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
S	3636	1160793	0.0	2.6	6.3	1.2	3.0	0.0	(2.6)	(6.3)	(1.2)	(3.0)
S	1548	1161027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
C	311	1161067	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3
C	801	1161110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1161165	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	(3.4)
N	1662	1161175	34.9	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8841	1161654	0.0	0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0
S	37	1161823	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
C	4261	1161841	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
S	37	1161937	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
N	3386	1162270	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	(18.0)
N	1237	1162285	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
S	1128	1162368	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	2.5
S	1128	1162415	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.1
S	1547	1162420	0.0	0.0	0.0	0.0	0.0	8.5	0.0	3.8	0.0	1.9
N	1237	1162653	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	1.1
S	1328	1162683	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

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N	1237	1162686	0.0	0.0	0.0	0.0	62.6	0.0	0.0	0.0	0.0	(30.4)
S	37	1162746	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.4
N	3386	1162751	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
S	984	1162756	0.8	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
S	37	1163219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
S	37	1163546	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
S	8282	1163552	2.4	0.0	2.1	2.1	0.0	0.0	0.0	(0.1)	(0.1)	4.2
S	8282	1163578	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.5)
S	1131	1163747	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
C	535	1170082	16.1	6.6	0.0	0.0	0.0	0.0	(0.1)	0.0	0.0	0.0
S	37	1170172	1.1	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.0	1.0
S	37	1170679	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.6
N	3386	1170883	0.0	0.0	0.0	0.0	43.6	0.0	0.0	0.0	0.0	(43.6)
S	1131	1171052	0.2	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
S	1135	1171557	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	(0.9)
S	1114	1171563	0.7	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1624	1171635	4.1	0.0	3.5	1.4	0.0	2.8	0.4	0.0	0.0	0.0
S	1131	1171639	3.0	0.7	0.7	0.7	0.7	(1.4)	(0.6)	(0.7)	(0.7)	0.1
C	1080	1171970	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6699	1172086	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	(2.0)
S	1128	1173082	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.1

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S	1128	1173308	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.4
S	525	1173420	6.7	5.4	2.9	1.9	1.8	0.1	0.0	0.1	0.1	(1.0)
S	1547	1173456	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
S	1141	1173494	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.1)
N	3386	1173812	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.4)
S	4034	1174061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	629	1180097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9248	1180142	0.0	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	(13.3)
C	1121	1181109	3.3	1.8	0.0	0.0	1.2	0.0	0.3	0.0	0.0	0.0
S	37	1181577	0.6	0.0	0.5	0.2	2.8	0.0	0.0	0.0	0.0	0.0
C	273	1181625	2.6	0.0	0.0	0.0	0.0	(0.1)	0.0	0.0	0.0	0.0
S	3012	1181998	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
S	8282	1182220	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	273	1182294	2.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
S	1738	1182776	2.0	0.0	0.0	0.0	3.3	(0.1)	0.0	0.0	0.0	0.0
S	37	1182896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1182997	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0
S	37	1182998	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
S	8282	1183422	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	72	1183435	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3386	1183449	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

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S	8282	1183522	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8044	1183571	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0
S	8282	1184354	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
S	1372	1190962	3.4	1.5	1.7	0.0	1.7	(3.4)	(1.5)	(1.7)	0.0	(1.7)
S	510	1192631	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	(1.6)
S	33	1010680	0.0	0.0	0.7	0.7	0.0	0.0	0.0	(0.7)	(0.7)	0.0
S	1372	1010731	0.0	0.0	2.2	0.0	0.0	0.0	0.0	(2.2)	0.0	0.0
S	1543	1010809	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3715	1010833	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	(14.6)
S	3746	1010887	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.5)
S	3746	1010888	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	3746	1010889	0.0	0.0	0.0	0.0	22.1	0.0	0.0	0.0	0.0	(22.1)
S	3746	1010890	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	(5.5)
S	3746	1010891	22.5	0.0	0.0	0.0	0.0	(22.5)	0.0	0.0	0.0	0.0
S	3746	1010892	23.0	0.0	0.0	0.0	0.0	(23.0)	0.0	0.0	0.0	0.0
S	3746	1010893	7.9	0.0	0.0	0.0	0.0	(7.9)	0.0	0.0	0.0	0.0
S	3746	1010894	11.1	0.0	0.0	0.0	0.0	(11.1)	0.0	0.0	0.0	0.0
S	3746	1010895	61.6	0.0	0.0	0.0	0.0	(61.6)	0.0	0.0	0.0	0.0
S	3746	1010896	61.6	0.0	0.0	0.0	0.0	(61.6)	0.0	0.0	0.0	0.0
S	3746	1010897	0.0	0.0	8.4	0.0	0.0	0.0	0.0	(8.4)	0.0	0.0
S	3746	1010898	0.0	0.0	0.2	0.2	0.0	0.0	0.0	(0.2)	(0.2)	0.0

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S	3746	1010899	0.0	0.0	38.9	0.0	0.0	0.0	0.0	(38.9)	0.0	0.0
S	3746	1010900	0.0	0.0	76.1	0.0	0.0	0.0	0.0	(76.1)	0.0	0.0
S	3746	1010901	0.0	0.0	2.9	0.0	0.0	0.0	0.0	(2.9)	0.0	0.0
S	3746	1010902	0.0	0.0	6.1	0.0	0.0	0.0	0.0	(6.1)	0.0	0.0
S	3746	1010903	0.0	0.0	5.2	0.0	0.0	0.0	0.0	(5.2)	0.0	0.0
S	3746	1010904	0.0	0.0	2.1	2.1	0.0	0.0	0.0	(2.1)	(2.1)	0.0
S	3746	1010905	0.0	0.0	7.1	0.0	0.0	0.0	0.0	(7.1)	0.0	0.0
S	3746	1010906	0.0	28.5	0.0	0.0	0.0	0.0	(28.5)	0.0	0.0	0.0
N	4304	1011034	16.5	0.0	3.4	0.0	0.0	(16.5)	0.0	(3.4)	0.0	0.0
S	1141	1011070	9.3	0.0	0.0	0.0	0.0	(9.3)	0.0	0.0	0.0	0.0
S	1141	1011071	15.3	0.0	0.0	0.0	0.0	(15.3)	0.0	0.0	0.0	0.0
C	3696	1011088	0.0	7.8	0.0	0.0	0.0	0.0	(7.8)	0.0	0.0	0.0
C	3696	1011089	0.0	44.1	0.0	0.0	0.0	0.0	(44.1)	0.0	0.0	0.0
C	603	1011090	68.8	0.0	0.0	0.0	0.0	(68.8)	0.0	0.0	0.0	0.0
S	1131	1011112	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	(4.5)
S	1129	1011177	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	(0.6)
S	1141	1011178	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	(1.7)
S	1548	1011180	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	3012	1011195	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	(5.1)
C	2872	1011499	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)
N	1758	1011571	0.0	0.0	4.9	0.3	0.0	0.0	0.0	(4.9)	(0.3)	0.0

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S	525	1020001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	525	1020010	0.2	0.0	0.0	0.0	0.0	(0.2)	0.0	0.0	0.0	0.0
S	3412	1020043	0.0	0.0	0.2	0.2	0.0	0.0	0.0	(0.2)	(0.2)	0.0
S	3412	1020044	0.5	0.0	0.0	0.0	0.0	(0.5)	0.0	0.0	0.0	0.0
S	3412	1020045	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.4)
S	1547	1020074	0.0	0.0	1.5	0.0	0.0	0.0	0.0	(1.5)	0.0	0.0
S	1128	1020169	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	(0.2)
S	33	1020197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1020198	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0	(9.2)
N	4238	1020215	0.0	20.6	0.0	0.0	0.0	0.0	(20.6)	0.0	0.0	0.0
S	55	1020452	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	(5.1)
S	848	1020479	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	(4.5)
S	848	1020480	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	(3.2)
S	83	1020519	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	(5.5)
S	1109	1020533	4.8	0.0	0.0	0.0	0.0	(4.8)	0.0	0.0	0.0	0.0
S	1109	1020534	0.0	15.5	0.0	0.0	0.0	0.0	(15.5)	0.0	0.0	0.0
S	1109	1020535	0.0	5.7	0.0	0.0	0.0	0.0	(5.7)	0.0	0.0	0.0
S	1543	1020536	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.4)
N	4557	1020697	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0	0.0	(14.1)
N	1283	1030046	0.8	0.0	0.0	0.0	0.0	(0.8)	0.0	0.0	0.0	0.0
C	1121	1062022	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	(1.2)

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Field Key:

- DOQ [pollutant] – initial District Offset Quantity used in equivalency system in tons per year
- adj DOQ [pollutant] – adjustment necessary to initial District Offset Quantity in tons per year; reflected in adjustment to the carry-over balance

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Appendix D-2

Federal Offset Quantity Adjustments

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Federal Offset Quantity Adjustments

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N	811	980147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1543	1000899	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1543	1001355	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1132	1010080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1010131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1641	1010317	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1543	1010630	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1543	1010632	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1010633	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3233	1010750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1010868	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1010962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1011029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1380	1011237	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4597	1011254	184.7	0.0	0.0	0.0	0.0	(0.5)	0.0	0.0	0.0	0.0
S	1792	1011269	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1011304	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	963	1011331	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3412	1011383	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4607	1011408	79.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4581	1011792	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1020015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	1135	1020016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1020019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4581	1020027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1020073	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1020107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1020136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1020206	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1020249	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3978	1020383	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	353	1020385	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	348	1020386	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	350	1020388	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1326	1020451	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1020463	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1020524	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1020545	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3529	1020572	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	335	1020672	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	75	1020710	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	75	1020711	45.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1020722	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1020725	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	984	1020746	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1020772	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	1128	1020815	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3929	1020868	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1020894	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1020916	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1020960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1020978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1020996	0.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	71	1021052	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3523	1021076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1021081	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1021132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3844	1021408	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1030647	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4940	1030648	57.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1030704	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2076	1030705	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1031885	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1033042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1040458	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	355	1040517	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3636	1040705	0.0	0.0	0.0	0.0	0.0	224.2	0.0	118.2	0.0	148.0
S	1131	1041060	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	285	1041192	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1041246	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	1372	1041721	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3696	1042295	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	2052	1043007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	72	1043086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1043280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	603	1043492	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1346	1043898	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6048	1043946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3585	1044033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1044334	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1044467	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1050293	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1050389	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1050458	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6502	1050942	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1050952	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6923	1051449	77.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1129	1051655	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1052026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3636	1052027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	2052	1052210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1053856	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1129	1053864	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7365	1054197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	1372	1054372	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1054555	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1054675	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1054766	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	36	1055248	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1346	1060032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	608	1060086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1060363	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6788	1060449	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	7126	1060669	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	5203	1060791	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1061054	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1061149	0.0	0.0	37.1	0.0	113.6	0.0	0.0	(37.1)	0.0	(113.6)
S	2010	1061472	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4261	1061750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1327	1061931	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7402	1061932	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7488	1062063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1062249	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1114	1062358	0.0	143.2	0.0	0.0	0.0	0.0	140.2	0.0	0.0	0.0
C	7220	1062518	126.1	0.0	0.0	0.0	39.5	(0.1)	0.0	0.0	0.0	0.0
S	1129	1062524	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3303	1062741	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1062742	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	382	1062781	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	829	1062958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1327	1063135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6900	1063256	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1063316	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	7286	1063535	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	801	1063613	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1063768	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1063816	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1063866	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1063897	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1327	1063940	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1064023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3585	1064117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1064167	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1064789	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1065121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4312	1070027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	5719	1070348	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1070377	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1070443	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1070497	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	379	1070545	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1070620	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	6848	1070932	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1626	1071070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	39	1071300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	4073	1071437	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1071447	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	39	1071454	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1129	1071457	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	801	1071474	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1071649	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	705	1071722	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1071954	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1072356	51.7	0.0	36.1	0.0	0.0	0.0	0.0	(8.4)	0.0	0.0
C	283	1072627	0.0	0.0	0.0	0.0	33.7	0.0	0.0	0.0	0.0	0.0
S	2010	1073281	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1073282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3103	1073298	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	4261	1073682	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	214	1073801	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6048	1073961	0.0	0.0	0.0	0.0	121.2	0.0	0.0	0.0	0.0	(121.2)
N	1662	1074121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1077	1074133	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
N	7488	1074155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	39	1074194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1074216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	4212	1074218	0.0	0.0	0.0	0.0	77.0	0.0	0.0	0.0	0.0	27.3
S	2010	1074281	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7478	1074407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1074518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1074702	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3585	1075277	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1075579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	4073	1080106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1758	1080120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	36	1080240	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1080246	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	7063	1080272	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1080278	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	629	1080354	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3953	1080386	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1738	1081017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1081064	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1081413	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	477	1082005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	276	1082047	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	447	1082417	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1082419	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1082447	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1082456	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	3585	1082526	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3585	1082865	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1082885	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1683	1083022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	628	1083159	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	(2.2)
C	4140	1083169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3929	1083176	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1131	1083203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4597	1083212	114.7	0.0	0.0	0.0	0.0	(113.0)	0.0	0.0	0.0	0.0
S	1326	1083337	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1327	1083338	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	2697	1083490	99.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3233	1083510	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	273	1083699	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1626	1083749	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	283	1083923	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1083924	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1083927	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1084210	25.0	0.0	31.1	0.0	0.0	10.4	0.0	(3.2)	0.0	0.0
S	1547	1084406	25.0	0.0	31.1	0.0	0.0	(25.0)	0.0	(31.1)	0.0	0.0
S	1135	1084419	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6848	1084448	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	39	1084478	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1084509	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	33	1084518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1114	1084594	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1084693	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1216	1084991	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1085002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1216	1085102	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1216	1085106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	548	1085134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1385	1085370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7365	1091307	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3299	1091384	0.0	0.0	0.0	0.0	0.0	92.0	0.0	0.0	0.0	0.0
S	1548	1091457	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1092332	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	266	1092405	0.0	0.0	0.0	0.0	116.5	0.0	0.0	0.0	0.0	58.3
S	1548	1092523	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1092524	34.0	0.0	0.0	0.0	22.0	(34.0)	0.0	0.0	0.0	(22.0)
S	71	1092535	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3585	1092704	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	276	1093286	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	7616	1093741	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	4073	1093857	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1093864	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1093933	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1094422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	2010	1094945	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2234	1094956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1095026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1095027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1095192	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1095193	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3585	1095655	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3386	1100247	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1100306	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	96	1100320	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	4.5
C	7940	1100454	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2010	1100701	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1100705	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	956	1101336	0.0	0.0	0.0	0.0	79.3	0.0	0.0	0.0	0.0	284.8
C	629	1101398	0.0	0.0	0.0	0.0	62.9	0.0	0.0	0.0	0.0	195.0
S	1128	1101450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	2872	1101828	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	311	1102455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1102743	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	4080	1102816	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3
C	904	1102936	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	799	1102958	1.3	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0	0.1
C	801	1103119	4.6	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
C	801	1103288	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

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S	3007	1103330	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
S	1624	1103331	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.6
S	36	1103459	0.3	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.2
S	1326	1103505	3.0	0.0	0.0	0.0	2.0	1.5	0.0	0.0	0.0	1.0
N	717	1103540	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	1.2
S	2234	1103628	6.2	0.0	0.0	0.0	7.6	3.1	0.0	0.0	0.0	13.1
C	629	1103740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	261.2
N	1919	1103895	1.2	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
S	3636	1103990	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	7857	1104195	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1104268	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1104286	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.5
S	1703	1104570	2.6	0.0	0.0	0.0	2.0	1.3	0.0	0.0	0.0	1.0
S	1326	1104728	3.0	0.0	0.0	0.0	2.0	1.5	0.0	0.0	0.0	1.1
S	36	1104824	11.1	0.0	0.0	0.0	3.9	(11.1)	0.0	0.0	0.0	(3.9)
S	1518	1104897	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	2.1
S	1372	1105279	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.5
N	1237	1110129	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	2.1
S	1246	1110237	15.8	0.0	0.0	0.0	10.2	7.9	0.0	0.0	0.0	5.2
C	535	1110245	2.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
N	956	1110256	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	3.1
S	2234	1110265	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
N	7855	1110296	0.0	0.0	0.0	0.0	71.9	0.0	0.0	0.0	0.0	36.0
C	447	1110475	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	1128	1110599	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.0	(9.9)
S	1372	1110679	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	1.8
N	1237	1110722	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	(0.5)
S	1327	1110750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1329	1110921	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1385	1110944	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	4034	1110967	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.6
S	7048	1110978	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
S	7063	1111009	4.1	0.0	0.0	0.0	0.0	(4.1)	0.0	0.0	0.0	0.0
S	1246	1111128	11.9	0.0	0.0	0.0	8.2	1.5	0.0	0.0	0.0	1.0
S	1246	1111129	3.0	1.9	1.9	0.0	2.0	1.5	(1.9)	(1.9)	0.0	1.1
C	799	1111164	2.0	0.0	0.0	0.0	0.1	(2.0)	0.0	0.0	0.0	(0.1)
S	377	1111177	2.2	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.1
N	3386	1111273	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.5)
S	1372	1111509	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1
S	1246	1111510	3.0	1.9	1.9	0.0	2.0	1.5	(1.9)	(1.9)	0.0	1.1
S	1737	1111515	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6048	1111582	0.0	0.0	0.0	0.0	93.3	0.0	0.0	0.0	0.0	46.1
C	799	1111651	1.1	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.0
S	37	1111779	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3
N	3386	1111823	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2
S	1246	1111824	14.9	5.3	9.3	0.0	10.2	7.4	(5.3)	(9.3)	0.0	5.2
S	1346	1111873	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1111901	6.0	3.7	3.7	0.0	4.1	2.9	0.0	0.0	0.0	2.0

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S	1246	1111902	8.9	3.2	5.6	0.0	6.1	4.5	0.0	0.0	0.0	3.1
S	1246	1111928	3.0	2.5	1.9	0.0	2.0	1.5	(2.5)	(1.9)	0.0	1.1
S	1246	1111978	14.9	0.0	0.0	0.0	9.3	7.5	0.0	0.0	0.0	4.7
S	1326	1112303	0.0	0.0	0.0	0.0	0.0	13.4	0.0	0.0	0.0	9.2
S	1385	1112529	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	6048	1112854	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	276	1112871	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	629	1113210	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	2.4
N	477	1113227	0.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
C	629	1113230	0.0	0.0	0.0	0.0	29.6	0.0	0.0	0.0	0.0	211.2
C	447	1113298	2.8	0.0	0.0	0.0	2.3	1.4	0.0	0.0	0.0	1.1
N	1237	1113344	0.0	0.0	0.0	0.0	47.2	0.0	0.0	0.0	0.0	20.4
S	33	1113367	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.5
N	1237	1113395	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	2.5
N	1237	1113407	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
N	3309	1113445	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	1.5
N	3309	1113446	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.8
N	3852	1113462	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
S	1547	1113576	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1113577	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7478	1113684	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	(2.1)
S	1703	1113747	2.6	0.0	0.0	0.0	2.0	1.3	0.0	0.0	0.0	1.0
S	1372	1113786	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2
N	1237	1113864	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	1.9

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N	266	1113968	0.0	0.0	0.0	0.0	52.7	0.0	0.0	0.0	0.0	26.4
S	1326	1114061	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
S	37	1114091	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	1.8
S	33	1114222	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.4
S	1326	1114230	0.5	0.0	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.1
S	1624	1114353	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4
S	2234	1114442	2.5	0.0	0.0	0.0	2.0	1.3	0.0	0.0	0.0	1.0
S	1327	1114449	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1327	1114465	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1114600	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	1.5
S	382	1114735	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1114818	3.2	0.0	0.0	0.0	2.0	1.6	0.0	0.0	0.0	1.1
S	2760	1114825	0.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	9.1
S	713	1114855	2.9	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
S	2980	1114893	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	1.4
S	1737	1120071	9.8	0.0	0.0	0.0	9.1	4.9	0.0	0.0	0.0	4.6
C	3115	1120109	24.8	0.0	0.0	0.0	8.3	12.4	0.0	0.0	0.0	4.2
S	1624	1120238	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.6
N	608	1120252	2.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
C	8347	1120254	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3275	1120258	3.2	0.0	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.4
S	377	1120294	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	956	1120314	0.0	0.0	0.0	0.0	110.1	0.0	0.0	0.0	0.0	55.1
S	1326	1120328	0.4	0.0	0.0	0.0	0.3	(0.4)	0.0	0.0	0.0	1.5

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N	7855	1120343	0.0	0.0	0.0	0.0	50.9	0.0	0.0	0.0	0.0	25.5
S	1216	1120347	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1120405	8.9	0.0	0.0	0.0	6.1	4.5	0.0	0.0	0.0	3.1
C	5870	1120431	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.2
S	1624	1120528	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	1.8
N	266	1120591	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	1.7
S	1703	1120718	2.6	0.0	0.0	0.0	2.0	1.3	0.0	0.0	0.0	1.0
C	315	1120796	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1738	1120872	3.8	0.0	0.0	0.0	3.5	1.9	0.0	0.0	0.0	1.8
N	1275	1121076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7478	1121092	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	1.3
S	1624	1121188	11.4	0.0	0.0	0.0	10.2	6.4	0.0	0.0	0.0	5.2
S	382	1121353	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1738	1121355	8.8	0.0	0.0	0.0	8.1	4.4	0.0	0.0	0.0	4.1
S	1547	1121401	3.5	0.0	0.0	0.0	1.3	1.8	0.0	0.0	0.0	0.7
S	8170	1121534	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1121674	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.5
N	7478	1121902	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.3
S	7616	1121903	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	2273	1121912	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
N	1237	1121959	3.9	0.0	0.0	0.0	2.6	(3.9)	0.0	0.0	0.0	1.3
S	2980	1122041	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)
S	2980	1122378	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2
N	283	1122501	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	14.3

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S	2918	1122546	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	3.1
S	377	1122706	2.2	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.1
N	1237	1122834	2.5	0.0	0.0	0.0	1.0	1.3	0.0	0.0	0.0	0.6
N	1665	1123083	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2
C	447	1123332	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	5.2
C	315	1123349	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1737	1123486	2.2	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.6
S	1326	1123499	35.7	0.0	0.0	0.0	24.6	(8.9)	0.0	0.0	0.0	(6.2)
N	96	1123569	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	2.7
S	37	1123575	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	1.4
N	1237	1123583	0.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0	0.0	8.6
S	1327	1123645	35.1	0.0	0.0	0.0	22.4	(17.7)	0.0	0.0	0.0	(13.0)
S	1624	1123679	0.7	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.4
N	1237	1123806	1.6	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
S	1326	1124099	0.2	0.0	0.0	0.0	0.2	(0.2)	0.0	0.0	0.0	(0.2)
S	1703	1124232	5.2	0.0	0.0	0.0	4.1	19.6	0.0	0.0	0.0	11.9
S	1624	1124268	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.3
S	2010	1124301	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1124303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1124364	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1124502	11.9	0.0	0.0	0.0	6.4	6.0	0.0	0.0	0.0	5.9
S	36	1130003	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.2
N	956	1130012	0.0	0.0	0.0	0.0	51.6	0.0	0.0	0.0	0.0	25.8
S	1624	1130129	4.5	0.0	0.0	0.0	4.1	2.3	0.0	0.0	0.0	2.0

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N	3606	1130130	0.0	0.0	0.0	0.0	23.2	0.0	0.0	0.0	0.0	11.7
S	1807	1130131	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	1.0
C	447	1130134	0.0	0.0	0.0	0.0	34.3	0.0	0.0	0.0	0.0	17.1
N	4939	1130191	0.0	0.0	0.0	0.0	119.8	0.0	0.0	0.0	0.0	59.9
S	1326	1130232	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	4.6
S	6509	1130396	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.3
S	37	1130397	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	2.6
S	8282	1130506	6.3	0.0	0.0	0.0	1.1	3.1	0.0	0.0	0.0	0.6
S	377	1130510	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
N	7478	1130542	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	(0.7)
S	1326	1131067	0.7	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.2
N	1275	1131080	2.7	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
S	382	1131243	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7855	1131345	0.0	0.0	0.0	0.0	13.7	0.0	0.0	0.0	0.0	6.9
S	37	1131410	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
N	1275	1131453	4.5	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
N	1237	1131559	0.0	0.0	0.0	0.0	64.8	0.0	0.0	0.0	0.0	32.4
S	8282	1131613	8.3	0.0	0.0	0.0	1.4	(8.3)	0.0	0.0	0.0	(1.4)
N	1237	1131615	0.0	0.0	0.0	0.0	42.5	0.0	0.0	0.0	0.0	21.3
S	377	1131768	2.2	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.1
N	1646	1131851	0.0	0.0	0.0	0.0	21.9	0.0	0.0	0.0	0.0	11.0
N	8887	1132068	15.1	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.0
C	801	1132203	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
S	2010	1132264	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1

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C	120	1132537	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
N	1976	1132542	5.4	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0
N	7365	1132556	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4939	1132719	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1
C	311	1132740	52.2	0.0	0.0	13.1	33.8	(47.5)	0.0	0.0	(13.1)	(30.7)
S	377	1132837	0.8	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.2
S	1737	1132866	0.2	0.0	0.0	0.0	1.0	0.1	0.0	0.0	0.0	0.5
N	1237	1132991	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	2.4
S	37	1133043	3.2	0.0	0.0	0.0	0.9	(3.2)	0.0	0.0	0.0	(0.9)
S	6848	1133056	3.2	0.0	0.0	0.0	2.2	1.5	0.0	0.0	0.0	1.2
N	3309	1133139	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.9
N	3386	1133147	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4
C	447	1133176	2.5	0.0	0.0	0.0	2.1	1.2	0.0	0.0	0.0	1.1
N	2321	1133189	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4
S	1738	1133220	2.6	0.0	0.0	0.0	1.3	1.2	0.0	0.0	0.0	0.6
C	447	1133313	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	7478	1133328	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	1.1
S	1246	1133332	6.0	0.0	0.0	0.0	4.1	2.9	0.0	0.0	0.0	2.0
C	447	1133347	0.0	0.0	0.0	0.0	45.3	0.0	0.0	0.0	0.0	(45.3)
N	2321	1133440	0.0	0.0	0.0	0.0	29.7	0.0	0.0	0.0	0.0	14.9
S	382	1133502	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
S	8282	1133525	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8282	1133536	8.1	0.0	0.0	0.0	0.5	4.0	0.0	0.0	0.0	1.7
N	1237	1133659	0.0	0.0	0.0	0.0	63.8	0.0	0.0	0.0	0.0	(63.8)

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S	1548	1133661	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.4
N	1326	1133785	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
S	1326	1133786	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6848	1133800	1.1	0.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.5
S	1326	1133970	0.9	0.0	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.3
S	1327	1133983	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3
S	1738	1134181	2.1	0.0	0.0	0.0	3.6	1.0	0.0	0.0	0.0	1.8
S	3303	1134223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1134224	18.9	0.0	0.0	0.0	21.2	(18.9)	0.0	0.0	0.0	(21.2)
S	382	1134253	2.7	0.0	0.0	0.0	3.5	(2.7)	0.0	0.0	0.0	(3.5)
S	1738	1134305	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1
S	1326	1134319	0.7	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.1
S	4034	1134445	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	(0.2)
S	7059	1134490	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	(0.3)
S	1738	1134513	0.7	0.0	0.0	0.0	0.0	(0.7)	0.0	0.0	0.0	0.0
S	3317	1134520	1.6	0.0	0.0	0.0	3.0	0.8	0.0	0.0	0.0	1.5
S	6509	1134631	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.4
S	1128	1134679	0.0	0.0	0.0	0.0	23.5	0.0	0.0	0.0	0.0	0.2
S	1548	1140111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1329	1140115	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	1.1
N	608	1140284	2.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0
S	1327	1140286	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1140292	0.9	0.0	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.3
S	83	1140301	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	3.4

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S	1703	1140337	2.6	0.0	0.0	0.0	2.0	1.3	0.0	0.0	0.0	1.0
C	629	1140372	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	2.4
S	6509	1140440	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3
S	49	1140493	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6509	1140506	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	2.1
S	1131	1140568	25.6	0.0	0.0	0.0	17.6	(16.7)	0.0	0.0	0.0	(11.5)
S	1372	1140709	2.2	0.0	0.0	0.0	1.1	1.2	0.0	0.0	0.0	0.6
S	1372	1140710	2.2	0.0	0.0	0.0	1.1	1.2	0.0	0.0	0.0	0.6
C	311	1140728	33.2	0.0	0.0	0.0	21.5	(28.5)	0.0	0.0	0.0	(18.4)
S	382	1140870	2.1	0.0	0.0	0.0	5.9	(2.1)	0.0	0.0	0.0	(5.9)
S	1128	1140935	0.0	0.0	0.0	0.0	17.8	0.0	0.0	0.0	0.0	0.1
N	1662	1141107	88.8	0.0	0.0	0.0	2.4	(4.8)	0.0	0.0	0.0	(1.6)
S	1327	1141288	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3
C	8694	1141302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1141425	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.6
N	238	1141447	1.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.3
S	1128	1141607	2.0	0.0	0.0	0.0	1.9	1.0	0.0	0.0	0.0	1.0
S	2010	1141623	2.0	0.0	0.0	0.0	1.9	1.0	0.0	0.0	0.0	1.0
S	8282	1141816	8.6	0.0	0.0	0.0	1.4	(7.7)	0.0	0.0	0.0	(1.2)
S	382	1141820	10.7	0.0	0.0	0.0	19.2	(8.0)	0.0	0.0	0.0	(14.4)
S	6509	1141881	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.5
C	629	1141976	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	(1.1)
S	1246	1142135	8.9	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
S	1326	1142341	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	8282	1142405	12.1	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	(0.1)
N	645	1142618	0.0	0.0	0.0	0.0	25.7	161.5	0.0	53.6	0.0	11.5
N	1662	1142733	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8282	1142829	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	377	1142949	2.1	0.0	0.0	0.0	0.0	(1.1)	0.0	0.0	0.0	0.0
N	238	1143155	12.2	0.0	0.0	0.0	9.2	(10.5)	0.0	0.0	0.0	(6.0)
S	1738	1143395	10.6	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0
S	1326	1143483	22.3	0.0	0.0	0.0	15.4	(8.9)	0.0	0.0	0.0	(6.2)
S	1114	1143503	1.1	0.0	0.0	0.0	0.2	(0.4)	0.0	0.0	0.0	(0.1)
S	8452	1143709	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	(0.6)
S	36	1143794	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1143823	4.5	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.3
S	1326	1143842	0.3	0.0	0.0	0.0	0.0	(0.3)	0.0	0.0	0.0	0.0
S	1326	1143901	0.7	0.0	0.0	0.0	0.1	(0.7)	0.0	0.0	0.0	(0.1)
S	1327	1143925	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1144079	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1246	1144245	13.4	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.8
S	1246	1144246	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1328	1144248	8.9	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0
S	1203	1144293	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1144438	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6
S	1128	1144548	32.6	0.0	0.0	0.0	24.6	(32.6)	0.0	0.0	0.0	(24.6)
S	1246	1144567	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1326	1150086	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0

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C	629	1151244	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	(1.3)
S	3585	1151709	4.5	0.0	0.0	0.0	3.1	(4.5)	0.0	0.0	0.0	(3.1)
S	1547	1151973	18.4	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	2.6
S	1246	1151996	7.4	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0
S	1246	1151997	7.4	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0
S	1346	1152035	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	7748	1152363	10.7	0.0	0.0	0.0	0.0	(8.9)	0.0	0.0	0.0	0.0
S	1807	1152825	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
C	273	1153011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	6971	1153325	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0
S	2234	1153552	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1624	1153553	3.5	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
S	525	1153671	7.3	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	(6.6)
S	1738	1153753	2.2	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
N	956	1160024	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
N	3309	1160121	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0
C	3609	1160266	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8609	1160267	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1160356	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	382	1160507	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	238	1160542	15.5	0.0	0.0	0.0	5.3	(7.0)	0.0	0.0	0.0	(1.0)
S	6971	1160740	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
S	3636	1160793	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1161027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	311	1161067	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
C	801	1161110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1161165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1662	1161175	97.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8841	1161654	0.0	0.0	0.0	0.0	29.0	0.0	0.0	0.0	0.0	0.0
S	37	1161823	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
C	4261	1161841	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0
S	37	1161937	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
N	3386	1162270	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0
N	1237	1162285	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	(10.2)
S	1128	1162368	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0
S	1128	1162415	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	(0.7)
S	1547	1162420	8.5	0.0	0.0	0.0	1.9	4.3	0.0	0.0	0.0	0.9
N	1237	1162653	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0
S	1328	1162683	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1237	1162686	0.0	0.0	0.0	0.0	96.3	0.0	0.0	0.0	0.0	(36.4)
S	37	1162746	0.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
N	3386	1162751	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
S	984	1162756	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1163219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1163546	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	8282	1163552	2.4	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0
S	8282	1163578	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1131	1163747	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	535	1170082	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	37	1170172	1.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
S	37	1170679	0.8	0.0	0.0	0.0	0.7	(0.5)	0.0	0.0	0.0	(0.1)
N	3386	1170883	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1131	1171052	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1135	1171557	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
S	1114	1171563	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1624	1171635	6.9	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.1
S	1131	1171639	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1080	1171970	0.0	0.0	0.0	0.0	19.3	0.0	0.0	0.0	0.0	0.0
C	6699	1172086	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1173082	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0
S	1128	1173308	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
S	525	1173420	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1173456	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1173494	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3386	1173812	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	4034	1174061	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0	(1.6)
C	629	1180097	0.0	0.0	0.0	0.0	22.9	0.0	0.0	0.0	0.0	(14.1)
C	9248	1180142	0.0	0.0	0.0	0.0	22.6	0.0	0.0	0.0	0.0	(22.6)
C	1121	1181109	3.3	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
S	37	1181577	0.3	0.0	0.0	0.0	1.4	0.3	0.0	0.0	0.0	2.3
C	273	1181625	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3012	1181998	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	8282	1182220	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	273	1182294	2.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
S	1738	1182776	1.9	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0
S	37	1182896	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	(0.5)
S	37	1182997	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0
S	37	1182998	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8282	1183422	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	72	1183435	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	3386	1183449	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
S	8282	1183522	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8044	1183571	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	1.7
S	8282	1184354	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1190962	3.5	0.0	0.0	0.0	1.7	(3.5)	0.0	0.0	0.0	(1.7)
S	510	1192631	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1010680	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1372	1010731	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1543	1010809	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3715	1010833	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010887	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010888	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010889	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010890	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010891	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010892	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	3746	1010893	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010894	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010895	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010897	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010898	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010899	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010901	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010902	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010903	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010904	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010905	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3746	1010906	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4304	1011034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1011070	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1011071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3696	1011088	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	3696	1011089	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	603	1011090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1131	1011112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1129	1011177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1141	1011178	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1548	1011180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	3012	1011195	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	2872	1011499	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1758	1011571	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	525	1020001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	525	1020010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3412	1020043	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3412	1020044	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	3412	1020045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1547	1020074	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1128	1020169	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1020197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	33	1020198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4238	1020215	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	55	1020452	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	848	1020479	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	848	1020480	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	83	1020519	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1109	1020533	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1109	1020534	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1109	1020535	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	1543	1020536	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	4557	1020697	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	1283	1030046	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	1121	1062022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Field Key:

- FOQ [pollutant] – initial Federal Offset Quantity used in equivalency system in tons per year
- adj FOQ [pollutant] – adjustment necessary to initial Federal Offset Quantity in tons per year; reflected in adjustment to the carry-over balances

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Appendix D-3

Prior Year Federal Major Modification Projects

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Prior Year Federal Major Modification Projects

Region	Fac ID	Facility	Project	Track Number	Final Date	NOx FOQ	VOC FOQ	PM10 FOQ	PM25 FOQ	SOx FOQ
S	1141	CHEVRON USA INC	1173494	7376	09/12/2018	0	0.2	0	0	0
S	1327	CALIFORNIA RESOURCES PRODUCTION CORP	1140286	7377	07/10/2014	1.3	0.9	0	0	0
S	1738	CALIFORNIA RESOURCES PRODUCTION CORP	1140291	7378	07/10/2014	1.3	0.9	0	0	0
S	1737	CALIFORNIA RESOURCES PRODUCTION CORP	1140496	7379	07/10/2014	1.3	0.9	0	0	0
S	1327	CALIFORNIA RESOURCES PRODUCTION CORP	1143925	7380	05/06/2015	1.3	0.9	0	0	0
S	8454	CALIFORNIA RESOURCES PRODUCTION CORP	1150622	7381	05/06/2015	1.3	0.9	0	0	0
S	1548	AERA ENERGY LLC	1152366	7382	12/21/2016	18.4	7.9	0	0	0

Field Key:

- FOQ [pollutant] – Federal Offset Quantity in tons per year

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Appendix D-4

Orphan Facility Shutdown Projects

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Orphan Facility Shutdown Projects

Region	Project	Track Number	NOx Balance	NOx Used	VOC Balance	VOC Used	PM10 Balance	PM10 Used	PM25 Balance	PM25 Used	SOx Balance	SOx Used
C	99908	967	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.0	0.0	0.0
C	999043	2096	0.0	0.0	0.0	0.0	1.4	0.0	0.9	0.0	0.0	0.0
C	999043	2103	0.0	0.0	0.0	4.5	1.9	0.0	1.2	0.0	0.0	0.0
C	999043	2095	0.0	2.2	0.0	0.1	0.2	0.0	0.1	0.0	0.0	0.0
C	999043	2097	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.0	0.0
C	999043	2098	0.2	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.0	0.0
C	999043	2099	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0
C	999043	2100	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0
C	999043	2101	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0
C	999043	2102	0.0	1.9	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0
C	999044	1218	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	999044	1219	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
N	999090	1777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
N	999096	305	0.0	0.7	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9990008	66	0.0	0.0	0.0	19.9	3.0	0.0	3.0	0.0	0.0	0.0
C	9990020	5742	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9990026	6876	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9990028	4678	0.0	0.0	0.0	2.6	1.1	0.0	1.0	0.0	0.0	0.0
C	9990029	4679	0.0	0.0	0.0	0.0	3.3	0.0	2.3	0.0	0.0	0.0
S	9990046	4884	0.0	0.0	219.4	306.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9990046	4884	1.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	2.4	0.0
C	9990053	4276	0.0	1.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
C	9990066	4680	0.0	0.0	0.0	5.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9990069	3989	0.0	0.3	0.0	0.9	0.2	0.0	0.1	0.0	0.0	0.0
N	9990069	6484	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9990073	6588	10.6	0.0	0.0	3.8	6.9	0.0	6.9	0.0	0.8	0.0
S	9990084	98	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0

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C	9990115	1155	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0
C	9990131	5385	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
S	9990136	6485	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
N	9990137	529	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9990138	4885	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
S	9990142	2266	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0
C	9990147	2127	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	9990165	6486	0.0	0.0	0.0	0.5	0.3	0.0	0.3	0.0	0.0	0.0
N	9990169	1394	0.0	0.0	0.0	0.0	1.2	0.0	0.9	0.0	0.0	0.0
C	9990171	5743	0.5	0.0	0.0	0.0	14.3	0.0	10.2	0.0	1.7	0.0
S	9990177	4681	0.0	0.0	0.0	0.0	2.1	0.0	1.5	0.0	0.0	0.0
N	9990179	352	0.0	0.0	0.0	0.0	0.6	0.0	0.3	0.0	0.0	0.0
N	9990182	4682	0.0	0.0	0.0	0.9	0.1	0.0	0.1	0.0	0.0	0.0
C	9990185	7239	0.0	0.0	0.0	0.0	0.8	0.0	0.2	0.0	0.0	0.0
C	9990188	2115	0.0	1.5	0.0	0.3	0.1	0.0	0.1	0.0	0.1	0.0
N	9990188	4277	0.0	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990189	4683	0.3	0.0	0.0	0.1	3.3	0.0	0.9	0.0	0.0	0.0
S	9990192	6075	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
N	9990194	6589	0.0	0.0	0.0	0.7	0.1	0.0	0.1	0.0	0.0	0.0
C	9990197	2209	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
S	9990204	5386	0.0	2.6	0.0	0.2	1.9	0.0	1.9	0.0	0.0	0.0
N	9990209	67	0.0	0.0	0.0	0.2	0.2	0.0	0.1	0.0	0.0	0.0
N	9990211	250	0.0	0.2	0.0	5.6	0.3	0.0	0.2	0.0	0.0	0.0
C	9990213	3990	0.0	0.1	0.0	0.0	9.5	0.0	1.2	0.0	0.0	0.0
C	9990232	2073	0.0	1.3	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0
C	9990241	1147	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9990242	20	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9990246	4886	0.0	0.0	0.0	12.9	0.6	0.0	0.6	0.0	0.0	0.0
N	9990250	69	0.0	0.3	0.0	0.0	0.5	0.0	0.5	0.0	0.2	0.0
S	9990252	1439	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0

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S	9990252	1439	0.0	0.6	0.0	0.1	0.2	0.0	0.2	0.0	0.0	0.0
S	9990253	1071	0.0	0.0	0.0	0.3	0.3	0.0	0.3	0.0	0.0	0.0
C	9990262	5387	2.6	0.0	0.0	0.6	0.1	0.0	0.1	0.0	0.0	0.0
C	9990263	4278	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9990266	7240	0.0	0.0	0.3	0.0	7.5	0.0	4.5	0.0	0.0	0.0
C	9990267	21	0.0	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9990267	4887	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
S	9990280	2774	0.0	0.0	0.0	0.1	0.6	0.0	0.5	0.0	0.0	0.0
S	9990280	3991	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0
S	9990284	2200	0.0	13.9	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
N	9990290	6076	0.0	0.8	0.0	0.2	8.6	0.0	1.3	0.0	0.1	0.0
S	9990297	3992	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
N	9990300	2323	0.0	1.1	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0
S	9990300	4279	0.0	0.0	0.0	0.0	3.7	0.0	2.6	0.0	0.0	0.0
C	9990315	6590	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
N	9990324	1596	0.0	0.0	0.0	0.0	1.1	0.0	0.8	0.0	0.0	0.0
N	9990324	5219	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
S	9990328	6877	0.0	0.0	0.0	4.2	0.7	0.0	0.7	0.0	0.0	0.0
C	9990336	5744	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990337	4888	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
S	9990339	1220	0.0	0.0	0.0	1.6	12.9	0.0	12.9	0.0	0.0	0.0
C	9990339	2133	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9990341	592	0.0	0.0	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9990344	3993	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
S	9990345	4684	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9990347	4685	0.0	0.0	0.0	2.6	0.1	0.0	0.1	0.0	0.0	0.0
C	9990350	1409	0.0	0.0	0.0	0.0	0.7	0.0	0.5	0.0	0.0	0.0
N	9990356	2106	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	9990357	1547	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
N	9990357	5388	0.0	0.0	0.0	0.5	0.2	0.0	0.2	0.0	0.0	0.0

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C	9990358	525	0.0	6.6	0.0	0.1	90.7	0.0	2.9	0.0	0.0	0.0
C	9990361	5745	0.0	0.0	0.0	2.4	1.6	0.0	1.5	0.0	0.0	0.0
S	9990365	2837	0.0	0.0	0.0	0.5	0.3	0.0	0.1	0.0	0.0	0.0
S	9990367	103	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
S	9990373	6591	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
S	9990378	5746	5.2	0.0	0.0	0.3	0.6	0.0	0.6	0.0	0.1	0.0
S	9990380	5220	0.0	0.0	0.0	0.0	10.7	0.0	5.9	0.0	0.0	0.0
C	9990388	6487	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.0	0.0	0.0
C	9990390	2019	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
N	9990392	71	0.0	0.0	0.0	0.0	1.4	0.0	0.8	0.0	0.0	0.0
N	9990402	353	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
C	9990403	6488	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
N	9990412	7241	1.7	0.0	0.2	0.0	0.7	0.0	0.7	0.0	0.1	0.0
C	9990416	22	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9990416	22	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990436	1222	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9990437	2142	0.0	0.0	0.0	5.0	0.0	1.1	0.0	0.0	0.0	0.0
S	9990439	6592	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9990443	5389	7.5	0.0	0.0	0.4	8.3	0.0	1.1	0.0	0.2	0.0
S	9990443	5390	0.2	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0
C	9990444	4280	0.0	0.0	0.0	0.0	3.8	0.0	2.9	0.0	0.0	0.0
C	9990445	6878	0.0	1.9	0.0	0.4	0.6	0.0	0.0	0.0	1.9	0.0
S	9990451	6489	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990457	2769	0.0	0.0	0.0	3.7	0.0	0.9	0.0	0.0	0.0	0.0
C	9990458	949	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.9	0.0
C	9990458	949	0.0	0.0	0.0	0.0	3.2	0.0	0.9	0.0	0.0	0.0
C	9990458	949	0.0	4.5	0.0	2.0	0.0	0.9	0.0	0.0	1.0	0.0
C	9990458	949	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990469	7242	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9990488	6879	0.0	0.0	0.0	0.1	1.1	0.0	1.1	0.0	0.0	0.0

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S	9990494	6077	0.0	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9990496	6490	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9990509	4281	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9990512	5391	0.0	0.6	0.0	7.1	1.2	0.0	1.2	0.0	0.0	0.0
N	9990513	5392	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990517	1223	0.0	0.0	0.0	0.0	3.2	0.0	2.4	0.0	0.0	0.0
N	9990517	1223	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9990529	1425	0.0	0.0	0.0	0.0	5.6	0.0	3.1	0.0	0.0	0.0
N	9990542	4889	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9990542	4889	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
S	9990546	2151	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
C	9990547	6880	0.0	4.0	0.0	0.4	0.7	0.0	0.7	0.0	0.5	0.0
N	9990547	6881	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
S	9990549	4686	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
S	9990560	3994	0.0	0.0	0.0	4.8	0.1	0.0	0.1	0.0	0.0	0.0
C	9990571	23	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
N	9990572	2686	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
C	9990583	4282	0.0	1.2	0.0	1.3	0.6	0.0	0.5	0.0	0.0	0.0
N	9990585	2248	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
N	9990586	5747	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
S	9990590	3995	0.0	3.0	0.0	0.3	0.1	0.0	0.1	0.0	0.1	0.0
C	9990593	251	0.0	9.6	0.0	9.6	6.3	0.0	5.2	0.0	0.6	0.0
S	9990628	4687	0.0	0.0	0.0	0.0	1.5	0.0	0.8	0.0	0.0	0.0
C	9990632	4283	0.0	0.0	0.0	3.7	1.4	0.0	1.4	0.0	0.0	0.0
C	9990635	1410	0.0	0.0	0.0	0.0	2.9	0.0	0.1	0.0	0.0	0.0
C	9990639	951	0.0	0.0	0.0	0.0	4.1	0.0	3.1	0.0	0.0	0.0
C	9990643	423	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9990646	7243	1.4	0.0	1.3	0.0	2.0	0.0	2.0	0.0	0.8	0.0
C	9990646	6593	7.7	2.1	0.0	2.3	4.9	0.0	4.9	0.0	1.1	0.0
C	9990648	4890	0.0	0.0	0.0	0.0	1.7	0.0	1.3	0.0	0.0	0.0

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S	9990650	4688	0.0	0.0	0.0	1.1	0.5	0.0	0.5	0.0	0.0	0.0
C	9990651	7244	3.6	0.0	0.6	0.0	3.5	0.0	2.8	0.0	17.8	0.0
N	9990652	72	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
C	9990653	5393	0.0	0.0	0.0	3.8	1.5	0.0	1.5	0.0	0.0	0.0
N	9990664	5748	0.5	0.0	0.0	1.7	1.9	0.0	1.7	0.0	0.0	0.0
C	9990665	2309	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
C	9990665	2310	0.0	0.0	0.0	0.0	2.0	0.0	1.5	0.0	0.0	0.0
C	9990665	2311	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
C	9990665	2312	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
C	9990672	5394	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9990673	4284	0.0	0.0	0.0	0.0	4.9	0.0	0.2	0.0	0.0	0.0
C	9990676	5395	0.0	0.0	0.0	0.8	1.1	0.0	1.0	0.0	0.0	0.0
C	9990682	1469	1.1	0.0	0.0	0.1	35.0	0.0	4.3	0.0	0.0	0.0
N	9990685	4285	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0
C	9990689	25	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9990690	663	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
N	9990693	4891	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9990706	4286	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9990709	2340	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
C	9990710	6882	0.0	0.0	0.0	2.0	0.4	0.0	0.4	0.0	0.0	0.0
S	9990712	2132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9990759	4892	6.8	0.0	0.0	3.1	0.3	0.0	0.3	0.0	0.1	0.0
C	9990765	6594	0.0	0.0	0.0	1.6	0.4	0.0	0.4	0.0	0.0	0.0
C	9990772	4287	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9990777	2182	0.0	0.0	0.0	3.7	0.9	0.0	0.9	0.0	0.0	0.0
S	9990786	5749	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
S	9990787	5750	3.7	0.0	0.0	0.4	0.6	0.0	0.6	0.0	0.2	0.0
S	9990789	4288	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0
S	9990792	2138	0.0	0.0	0.0	5.0	0.0	0.4	0.0	0.0	0.0	0.0
S	9990793	6078	2.7	0.0	0.0	61.9	0.5	0.0	0.5	0.0	3.5	0.0

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N	9990804	3997	0.0	0.0	0.0	1.4	0.3	0.0	0.3	0.0	0.0	0.0
C	9990804	5221	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9990807	1089	0.0	0.0	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0
C	9990807	4893	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9990807	4893	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
C	9990808	4689	0.1	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
N	9990824	1126	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990824	1126	0.0	0.0	0.0	3.7	0.0	6.7	0.0	0.0	0.0	0.0
C	9990824	2835	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0
N	9990831	2650	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9990841	4289	0.0	0.0	0.0	0.0	0.7	0.0	0.5	0.0	0.0	0.0
N	9990848	5751	0.0	0.0	0.0	5.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9990855	4690	0.0	0.0	0.0	3.7	0.6	0.0	0.5	0.0	0.0	0.0
C	9990864	1084	0.0	1.3	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.1
C	9990867	6595	0.0	0.0	0.0	0.0	43.5	0.0	12.6	0.0	0.0	0.0
S	9990869	5396	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
C	9990869	6345	2.7	0.0	0.0	2.5	3.6	0.0	3.5	0.0	2.7	0.0
N	9990878	1771	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
S	9990884	6491	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9990895	2066	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0
C	9990895	2671	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9990898	4691	0.0	0.0	0.0	4.3	3.8	0.0	2.8	0.0	0.0	0.0
N	9990908	5752	0.0	0.0	0.0	0.0	0.5	0.0	0.4	0.0	0.0	0.0
C	9990910	4290	0.0	0.0	0.0	0.0	2.1	0.0	1.6	0.0	0.0	0.0
N	9990912	5397	0.4	0.0	0.0	0.3	0.3	0.0	0.3	0.0	0.0	0.0
N	9990922	7245	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
N	9990924	416	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0
C	9990939	1699	0.0	0.0	0.0	0.0	2.3	0.0	1.7	0.0	0.0	0.0
N	9990944	3998	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
C	9990945	4291	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0

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N	9990950	1165	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9990951	2743	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9990958	5753	0.2	0.0	0.0	0.0	2.4	0.0	2.3	0.0	0.0	0.0
N	9990968	3999	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0
S	9990990	252	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
S	9990992	4894	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
N	9990994	5398	2.3	0.0	0.0	1.5	0.1	0.0	0.1	0.0	0.2	0.0
N	9990996	7246	1.3	0.0	0.1	0.0	0.5	0.0	0.3	0.0	0.0	0.0
C	9990996	6346	1.9	0.0	0.0	2.2	0.4	0.0	0.1	0.0	0.0	0.0
S	9990996	6492	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
S	9990997	4692	0.3	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9991014	2338	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9991020	6883	5.2	0.0	0.0	0.1	0.4	0.0	0.2	0.0	0.3	0.0
N	9991021	1484	0.0	0.0	0.0	0.0	1.6	0.0	1.5	0.0	4.4	0.0
S	9991021	6884	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9991025	1493	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9991027	6079	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
N	9991027	6596	1.5	0.0	0.0	0.2	0.4	0.0	0.4	0.0	0.0	0.0
N	9991035	6597	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9991043	2326	0.0	0.0	0.0	3.7	0.0	0.9	0.0	0.0	0.0	0.0
N	9991045	6885	0.8	0.0	0.0	2.5	0.5	0.0	0.5	0.0	0.0	0.0
N	9991052	2643	0.0	0.0	0.0	3.7	0.0	4.8	0.0	0.0	0.0	0.0
S	9991058	2006	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0
N	9991066	2344	0.0	0.0	0.0	19.5	0.0	5.2	0.0	0.0	0.0	0.0
C	9991068	7247	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
C	9991071	2175	0.0	0.0	0.0	3.7	0.2	0.0	0.2	0.0	0.0	0.0
C	9991084	7248	0.0	0.0	0.3	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9991107	2720	0.0	1.1	0.0	0.0	8.0	0.0	1.8	0.0	0.0	0.0
N	9991111	1054	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9991115	6493	2.0	0.0	0.0	0.2	0.3	0.0	0.2	0.0	0.9	0.0

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S	9991116	4895	2.8	0.0	0.0	0.0	0.5	0.0	0.2	0.0	0.1	0.0
N	9991129	2255	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
N	9991147	5754	0.0	0.0	0.0	0.3	25.4	0.0	2.9	0.0	0.0	0.0
C	9991161	5399	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9991162	619	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9991166	4693	0.0	0.0	0.0	0.0	0.8	0.0	0.4	0.0	0.0	0.0
N	9991181	2176	0.0	8.1	0.0	1.8	0.0	0.9	0.0	0.0	0.2	0.0
C	9991182	4292	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9991183	2282	0.0	0.0	0.0	3.7	0.2	0.0	0.2	0.0	0.0	0.0
C	9991188	2798	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9991201	7249	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9991203	4694	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9991205	2677	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9991213	2075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9991221	4293	0.0	0.0	0.0	13.7	3.2	0.0	3.1	0.0	0.0	0.0
S	9991223	4896	0.3	0.0	0.0	5.0	2.4	0.0	2.3	0.0	0.0	0.0
S	9991229	2804	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9991238	310	0.0	0.0	0.0	0.0	2.3	0.0	1.6	0.0	0.0	0.0
C	9991242	4294	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
S	9991247	7250	0.2	0.0	26.7	0.0	0.1	0.0	0.1	0.0	0.6	0.0
N	9991254	6886	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.0
C	9991256	5400	1.0	0.0	0.0	0.1	3.2	0.0	3.2	0.0	0.1	0.0
N	9991257	1098	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0
S	9991258	583	0.0	0.0	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0
C	9991258	5401	0.0	0.0	0.0	3.7	0.5	0.0	0.5	0.0	0.0	0.0
N	9991261	2320	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0
N	9991265	4001	0.0	0.1	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
C	9991271	516	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9991282	5755	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
N	9991284	324	0.0	1.5	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0

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N	9991286	2322	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
S	9991296	4002	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9991297	249	0.0	0.0	0.0	0.0	3.6	0.0	2.6	0.0	0.0	0.0
C	9991302	1698	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
C	9991305	1144	0.0	0.4	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
C	9991324	2016	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
N	9991325	1389	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
N	9991328	6887	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9991335	1438	0.0	0.0	0.0	3.1	0.1	0.0	0.0	0.0	0.0	0.0
N	9991338	6494	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
S	9991339	5402	8.7	0.0	0.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9991340	1523	0.3	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
C	9991342	996	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9991346	5756	0.0	0.0	0.0	0.0	0.8	0.0	0.6	0.0	0.0	0.0
C	9991348	6495	0.0	0.0	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.0
C	9991356	5403	0.0	0.0	0.0	12.6	6.4	0.0	6.4	0.0	0.0	0.0
C	9991360	349	0.0	0.0	0.0	2.5	1.0	0.0	1.0	0.0	0.0	0.0
C	9991361	6888	0.0	0.0	0.0	0.4	0.1	0.0	0.1	0.0	0.0	0.0
C	9991362	2745	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9991370	5404	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9991371	4897	0.4	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9991371	6496	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
S	9991374	5757	0.5	0.0	0.0	8.2	0.3	0.0	0.0	0.0	0.7	0.0
C	9991375	4695	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
S	9991379	4696	0.0	0.0	0.0	1.6	3.2	0.0	3.2	0.0	0.0	0.0
S	9991384	2828	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9991385	5222	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
C	9991389	4295	0.0	0.0	0.0	0.0	7.1	0.0	0.2	0.0	0.0	0.0
S	9991389	5223	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
S	9991400	5405	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0

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C	9991403	5224	0.0	0.0	0.0	1.8	0.3	0.0	0.3	0.0	0.0	0.0
C	9991409	4296	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9991411	5406	1.2	0.0	0.0	0.5	0.2	0.0	0.2	0.0	4.9	0.0
S	9991415	5225	1.1	0.0	0.0	4.1	0.3	0.0	0.3	0.0	1.1	0.0
S	9991416	5226	1.1	0.0	0.0	4.1	0.2	0.0	0.2	0.0	1.0	0.0
S	9991418	2057	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0
S	9991445	4003	0.0	0.0	0.0	1.1	0.1	0.0	0.1	0.0	0.0	0.0
S	9991461	113	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9991487	114	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9991498	1025	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0
S	9991533	4697	0.0	0.0	0.0	5.0	1.1	0.0	1.0	0.0	0.0	0.0
S	9991537	4898	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
S	9991549	4297	0.0	1.4	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9991553	6889	11.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.1	0.0
C	9991574	2364	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
C	9991574	2365	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
C	9991574	2366	0.0	0.0	0.0	0.0	1.3	0.0	0.1	0.0	0.0	0.0
C	9991574	2367	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9991580	6890	0.6	0.0	0.0	3.2	0.3	0.0	0.3	0.0	0.1	0.0
C	9991587	954	0.0	0.0	0.0	2.7	0.4	0.0	0.4	0.0	0.0	0.0
C	9991594	5758	0.5	0.0	0.0	0.1	0.3	0.0	0.3	0.0	0.1	0.0
S	9991601	2300	0.0	0.0	0.0	7.0	0.0	1.7	0.0	0.0	0.0	0.0
C	9991616	2288	0.0	0.0	0.0	0.0	1.2	0.0	0.9	0.0	0.0	0.0
C	9991616	2289	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9991616	2290	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9991618	6891	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	9991628	5227	0.2	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
S	9991629	115	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
N	9991630	79	0.0	0.0	0.0	0.0	5.3	0.0	0.2	0.0	0.0	0.0
C	9991630	341	0.0	0.0	0.0	13.7	0.0	0.0	0.0	0.0	0.0	0.0

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N	9991631	1198	0.0	0.0	0.0	42.4	0.0	0.0	0.0	0.0	0.0	0.0
N	9991631	1198	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9991636	1189	0.0	0.0	0.0	2.2	1.9	0.0	1.5	0.0	0.0	0.0
N	9991636	1189	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9991638	339	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
C	9991660	4899	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9991671	969	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9991672	80	0.0	0.0	0.0	0.6	0.1	0.0	0.1	0.0	0.0	0.0
N	9991675	1005	0.0	0.5	0.0	0.1	0.2	0.0	0.2	0.0	0.0	0.0
S	9991679	4900	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
S	9991683	4901	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9991685	1051	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9991696	4902	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9991714	5759	0.0	0.0	0.0	0.0	2.2	0.0	1.6	0.0	0.0	0.0
S	9991743	4903	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9991744	1180	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9991749	1671	0.5	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9991775	5760	0.0	0.0	0.0	2.0	2.5	0.0	2.5	0.0	0.0	0.0
S	9991782	4298	0.0	0.0	0.0	0.0	14.6	0.0	10.4	0.0	0.0	0.0
C	9991809	6497	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9991810	2045	0.0	0.0	0.0	0.0	12.5	0.0	1.9	0.0	0.0	0.0
C	9991810	2044	0.0	0.0	0.0	0.0	12.2	0.0	1.8	0.0	0.0	0.0
C	9991819	566	0.0	0.0	0.0	0.0	5.8	0.0	0.9	0.0	0.0	0.0
N	9991823	606	0.0	0.5	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
N	9991838	5761	4.2	0.0	0.0	16.8	1.1	0.0	1.1	0.0	0.1	0.0
C	9991841	5762	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9991848	5407	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9991849	5408	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
S	9991856	578	0.0	1.7	0.0	4.2	0.6	0.0	0.6	0.0	1.6	0.0
C	9991862	2217	0.0	0.2	0.0	3.7	0.5	0.4	0.5	0.0	0.0	0.0

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S	9991864	5228	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
S	9991867	5409	0.0	0.0	0.0	0.1	1.2	0.0	1.1	0.0	0.0	0.0
S	9991874	2223	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
S	9991877	4698	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0
C	9991882	5763	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9991898	5764	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9991903	42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
C	9991904	2092	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
C	9991906	654	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
S	9991911	7251	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9991915	5410	0.0	0.0	0.0	3.9	4.7	0.0	4.7	0.0	0.0	0.0
C	9991916	43	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
C	9991940	4299	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
C	9991954	44	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9991965	1149	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
C	9991966	4904	0.0	0.0	0.0	0.0	1.7	0.0	1.3	0.0	0.0	0.0
N	9991992	6892	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
S	9991999	6893	0.5	0.0	0.0	0.3	0.3	0.0	0.3	0.0	0.0	0.0
C	9992002	2113	0.0	0.4	0.0	7.0	3.6	0.0	0.3	0.0	0.0	0.0
N	9992005	331	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992008	2211	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
S	9992015	4004	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9992018	538	0.0	0.0	0.0	0.0	1.3	0.0	0.3	0.0	0.0	0.0
C	9992019	6498	2.6	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.9	0.0
S	9992021	2795	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9992025	5411	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9992028	629	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992030	4905	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9992039	5229	0.0	0.0	0.0	1.9	0.4	0.0	0.4	0.0	0.0	0.0
N	9992040	4005	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

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S	9992045	5765	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992048	4300	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9992071	2314	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
C	9992071	2315	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9992071	2316	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
C	9992073	4699	0.0	0.0	0.0	4.9	0.2	0.0	0.2	0.0	0.0	0.0
C	9992074	1763	0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9992077	2082	0.0	0.0	0.0	0.6	0.0	0.9	0.0	0.0	0.0	0.0
C	9992080	6598	0.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9992089	7252	1.1	0.0	2.6	0.0	0.5	0.0	0.5	0.0	0.0	0.0
N	9992092	5412	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.0	0.1	0.0
C	9992105	5766	0.2	0.0	0.0	1.9	0.2	0.0	0.0	0.0	0.0	0.0
C	9992107	6599	0.1	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
N	9992108	5230	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9992122	1430	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992135	47	0.0	0.0	0.0	4.5	1.5	0.0	0.1	0.0	0.0	0.0
C	9992137	2215	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
N	9992148	4301	0.0	0.0	0.0	0.0	2.6	0.0	1.4	0.0	0.0	0.0
C	9992152	6600	0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
S	9992162	370	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9992197	7253	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992199	1470	0.0	0.0	0.0	5.3	5.2	0.0	1.5	0.0	0.0	0.0
S	9992199	4906	0.0	0.0	0.0	1.1	0.8	0.0	0.8	0.0	0.0	0.0
S	9992201	6499	0.0	0.0	0.0	5.0	0.3	0.0	0.3	0.0	0.0	0.0
S	9992216	675	0.0	0.0	0.0	1.4	0.8	0.0	0.8	0.0	0.0	0.0
S	9992229	4006	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9992242	6500	0.0	0.0	0.0	0.0	1.4	0.0	1.4	0.0	0.0	0.0
C	9992266	1696	0.0	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0
N	9992266	4700	0.0	0.0	0.0	0.0	5.3	0.0	4.0	0.0	0.0	0.0
C	9992270	5413	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	9992271	5231	5.9	0.0	0.0	0.4	0.9	0.0	0.9	0.0	0.3	0.0
N	9992272	85	0.0	0.0	0.0	0.0	2.4	0.0	1.3	0.0	0.0	0.0
N	9992285	5414	0.0	0.0	0.0	0.0	2.6	0.0	1.4	0.0	0.0	0.0
N	9992309	4701	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9992310	1790	0.0	0.0	0.0	0.0	30.0	0.0	16.3	0.0	0.0	0.0
C	9992311	5415	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9992314	5416	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	9992315	4907	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992327	6601	0.4	0.0	0.0	0.0	41.2	0.0	1.6	0.0	0.0	0.0
N	9992329	4702	0.0	0.0	0.1	12.7	0.5	0.0	0.5	0.0	0.0	0.0
S	9992329	4908	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9992332	347	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9992339	1020	0.0	0.0	0.0	1.3	0.2	0.0	0.2	0.0	0.0	0.0
N	9992374	1014	0.0	0.0	0.0	2.5	0.8	0.0	0.8	0.0	0.0	0.0
C	9992375	5232	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992388	5233	0.0	0.0	0.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9992390	4703	0.0	0.0	0.0	1.7	0.3	0.0	0.3	0.0	0.0	0.0
S	9992405	4302	0.0	0.0	0.0	5.0	0.5	0.0	0.5	0.0	0.0	0.0
N	9992405	5234	0.0	0.0	3.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9992414	4704	0.0	0.0	0.0	2.7	0.5	0.0	0.5	0.0	0.0	0.0
N	9992427	6501	0.0	0.0	0.0	0.0	16.3	0.0	14.8	0.0	0.0	0.0
C	9992429	1030	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
N	9992431	2641	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992437	2183	0.0	0.0	0.0	1.4	0.0	0.1	0.0	0.0	0.0	0.0
S	9992458	2172	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9992471	5417	0.0	0.0	4.9	0.0	0.5	0.0	0.5	0.0	0.0	0.0
S	9992497	124	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992499	4303	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
C	9992544	4705	1.5	0.0	0.0	1.9	0.1	0.0	0.1	0.0	0.1	0.0
C	9992582	1522	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	9992610	4304	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
C	9992633	6502	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992649	4305	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
S	9992658	4706	0.0	0.0	0.0	5.0	0.8	0.0	0.7	0.0	0.0	0.0
S	9992680	5767	2.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
S	9992685	127	0.0	0.0	0.0	0.2	0.7	0.0	0.7	0.0	0.0	0.0
S	9992695	1377	0.0	0.1	0.0	3.3	0.1	0.0	0.1	0.0	0.1	0.0
C	9992697	329	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
C	9992705	2048	0.0	0.0	0.0	5.0	0.0	0.8	0.0	0.0	0.0	0.0
C	9992709	5235	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0
S	9992711	2079	0.0	1.1	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0
C	9992733	2059	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9992736	678	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
S	9992737	2356	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
S	9992743	6895	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
S	9992768	6896	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
S	9992782	130	0.0	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0
C	9992787	2114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9992788	1556	0.0	0.0	0.0	26.5	0.0	0.0	0.0	0.0	0.0	0.0
S	9992788	1556	0.1	0.0	0.0	0.2	0.8	0.0	0.8	0.0	0.1	0.0
S	9992799	4910	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9992820	4007	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9992826	1187	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992837	312	2.9	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.5	0.0
S	9992838	2796	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9992844	1395	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
C	9992871	6897	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
C	9992872	7254	0.4	0.0	16.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9992872	4911	0.0	0.0	0.0	5.0	0.3	0.0	0.3	0.0	0.0	0.0
C	9992895	1444	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0

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S	9992895	5236	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
S	9992898	6080	0.0	0.0	0.0	3.5	1.0	0.0	1.0	0.0	0.0	0.0
S	9992899	5768	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
S	9992902	7255	0.0	0.0	0.0	0.0	2.3	0.0	0.6	0.0	0.0	0.0
S	9992908	6898	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
S	9992909	4912	0.2	0.0	0.0	0.1	0.4	0.0	0.3	0.0	0.0	0.0
C	9992914	5769	0.0	0.0	0.0	0.7	0.1	0.0	0.1	0.0	0.0	0.0
C	9992915	1477	0.8	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0
C	9992915	1477	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9992932	4008	0.0	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0
S	9992936	2232	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9992939	1616	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9992942	4009	0.0	0.2	0.0	5.0	0.1	0.0	0.1	0.0	0.1	0.0
N	9992949	4306	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9992952	4307	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
N	9992954	4010	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9992958	5237	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9992959	1150	0.0	0.0	0.0	3.7	0.6	0.0	0.6	0.0	0.0	0.0
N	9992961	4011	0.0	0.0	0.0	3.7	0.9	0.0	0.9	0.0	0.0	0.0
S	9992962	1482	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9992966	5238	0.0	0.0	0.0	0.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9992967	4012	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0
N	9992976	5770	0.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9992981	6503	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9992983	2766	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9992983	2684	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0
C	9992986	4013	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
S	9992991	132	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
N	9992994	88	0.0	0.0	0.0	14.6	1.2	0.0	1.2	0.0	0.0	0.0
N	9992997	4014	0.0	0.0	0.0	3.7	0.9	0.0	0.9	0.0	0.0	0.0

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N	9993000	2632	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9993001	6504	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
C	9993009	4308	0.0	0.0	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
S	9993011	133	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
C	9993013	5418	0.8	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9993025	4309	0.0	0.0	0.0	3.7	0.9	0.0	0.9	0.0	0.0	0.0
S	9993027	6081	9.1	0.0	0.0	1.8	0.6	0.0	0.6	0.0	0.6	0.0
S	9993041	4015	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9993045	303	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9993049	5771	0.0	0.0	0.0	2.6	0.5	0.0	0.5	0.0	0.0	0.0
S	9993051	4913	4.7	0.0	0.0	0.8	1.8	0.0	1.8	0.0	0.1	0.0
S	9993053	1506	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993057	505	0.0	0.0	0.0	0.0	1.0	0.0	0.2	0.0	0.0	0.0
S	9993065	4707	0.0	0.0	0.0	4.9	1.2	0.0	1.1	0.0	0.0	0.0
S	9993069	5419	0.0	0.0	0.0	7.4	0.1	0.0	0.1	0.0	0.0	0.0
C	9993075	60	0.0	0.0	0.0	0.9	0.2	0.0	0.2	0.0	0.0	0.0
N	9993075	5420	1.4	0.0	0.0	2.0	0.6	0.0	0.6	0.0	0.0	0.0
S	9993086	2270	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	9993089	2655	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9993093	4310	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9993094	4016	0.0	0.0	0.0	2.7	0.6	0.0	0.6	0.0	0.0	0.0
S	9993109	1113	2.8	0.0	0.0	0.2	1.8	0.0	1.8	0.0	0.0	0.0
S	9993111	1124	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993112	6602	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
C	9993116	308	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
N	9993116	4708	0.0	0.0	0.0	0.1	1.4	0.0	1.4	0.0	0.0	0.0
N	9993119	4709	0.0	0.0	0.0	2.7	0.6	0.0	0.6	0.0	0.0	0.0
C	9993125	4017	0.5	0.0	0.0	1.3	0.2	0.0	0.2	0.0	0.0	0.0
N	9993126	539	0.0	0.0	0.0	0.5	0.1	0.0	0.1	0.0	0.0	0.0
N	9993128	440	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0

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S	9993129	2717	0.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
S	9993141	2202	0.0	0.0	0.0	0.9	0.0	3.8	0.0	0.0	0.0	0.0
S	9993145	6082	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9993158	6899	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9993161	400	0.0	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0
S	9993162	2196	0.0	0.0	0.0	2.7	0.0	0.4	0.0	0.0	0.0	0.0
S	9993184	1037	0.0	0.0	0.0	8.4	0.7	0.0	0.7	0.0	0.0	0.5
N	9993191	4311	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9993192	365	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9993193	1415	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
S	9993198	4710	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9993202	570	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9993202	5239	0.1	0.0	0.0	0.2	0.4	0.0	0.4	0.0	0.0	0.0
S	9993209	348	0.0	0.0	0.0	0.9	1.0	0.0	1.0	0.0	0.0	0.0
S	9993212	4711	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
N	9993214	1097	0.0	0.0	0.0	1.9	0.3	0.0	0.3	0.0	0.0	0.0
S	9993217	6900	0.0	0.0	0.0	0.4	0.1	0.0	0.1	0.0	0.0	0.0
N	9993219	1056	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
S	9993219	5421	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9993220	6603	0.0	0.0	0.0	3.5	1.0	0.0	1.0	0.0	0.0	0.0
S	9993221	5772	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
N	9993223	4914	0.0	0.0	0.0	0.3	0.4	0.0	0.4	0.0	0.0	0.0
C	9993223	6505	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9993227	4312	4.4	16.1	0.0	0.6	0.9	0.0	0.9	0.0	0.4	0.0
C	9993228	6506	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9993229	1215	0.0	0.1	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9993231	4313	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
C	9993233	1070	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9993233	4915	0.0	0.0	0.0	5.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9993239	1043	0.0	0.0	0.0	5.0	1.1	0.0	1.1	0.0	0.0	0.0

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C	9993242	1486	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9993242	1486	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
N	9993244	4712	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
S	9993248	630	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
C	9993253	61	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9993256	5240	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
N	9993258	4916	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9993261	6901	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
N	9993270	2222	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
N	9993279	1416	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
S	9993281	2116	0.0	0.3	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
N	9993284	5773	0.0	0.0	1.2	3.8	0.4	0.0	0.3	0.0	0.0	0.0
N	9993287	4917	0.0	0.0	5.0	0.0	2.0	0.0	1.9	0.0	0.0	0.0
C	9993287	6604	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993289	1481	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993291	5241	0.0	0.0	2.5	0.0	0.6	0.0	0.6	0.0	0.0	0.0
N	9993295	6605	0.0	0.0	6.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9993297	4018	0.0	0.2	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
S	9993301	1003	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993311	4314	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
N	9993314	4315	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
N	9993324	6507	0.0	0.0	0.0	0.0	3.3	0.0	2.4	0.0	0.0	0.0
N	9993326	1199	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9993326	1199	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993327	7256	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993327	4713	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0
C	9993328	1026	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993336	4918	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993339	649	0.0	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9993339	2141	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0

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S	9993340	6606	5.0	0.0	0.1	0.0	0.7	0.0	0.7	0.0	0.1	0.0
S	9993346	1691	0.0	0.0	0.1	0.0	0.6	0.0	0.5	0.0	0.0	0.0
S	9993355	5242	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
C	9993357	5243	0.1	0.0	0.0	0.0	2.8	0.0	2.5	0.0	0.0	0.0
N	9993361	1166	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
C	9993363	2337	0.0	1.4	0.0	3.0	0.0	2.1	0.0	0.0	0.0	0.0
N	9993372	5244	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9993380	5422	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9993385	5423	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993387	1122	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
C	9993389	4019	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
C	9993397	2224	0.0	0.0	0.0	5.0	0.0	0.8	0.0	0.0	0.0	0.0
C	9993399	62	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.0
N	9993400	5245	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
N	9993401	2180	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
C	9993406	2701	0.0	0.0	0.0	5.0	0.2	1.0	0.1	0.0	0.0	0.0
S	9993407	6902	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993409	554	0.0	0.0	0.2	0.0	0.8	0.0	0.8	0.0	0.5	0.0
N	9993412	6607	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9993422	4020	0.0	0.0	0.0	4.0	0.4	0.0	0.4	0.0	0.0	0.0
S	9993430	2111	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
N	9993430	5424	0.0	0.0	11.5	0.0	1.7	0.0	1.4	0.0	0.0	0.0
S	9993436	4021	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993436	4316	0.0	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0
N	9993438	2239	0.0	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
N	9993440	990	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
N	9993448	5425	0.1	0.0	0.0	0.0	5.2	0.0	5.2	0.0	0.0	0.0
S	9993452	6903	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9993453	5426	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993473	1417	0.0	0.0	0.0	5.0	0.6	0.0	0.6	0.0	0.0	0.0

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C	9993480	2253	0.0	0.2	0.0	5.0	0.0	0.9	0.0	0.0	0.0	0.0
N	9993484	1418	0.0	0.0	0.0	5.0	1.6	0.0	1.5	0.0	0.0	0.0
C	9993494	5427	0.0	0.0	3.7	0.0	1.4	0.0	1.4	0.0	0.0	0.0
C	9993496	5774	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993500	7257	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993500	4714	0.0	0.0	0.0	0.2	3.3	0.0	3.3	0.0	0.0	0.0
N	9993507	2657	0.0	0.0	0.0	0.0	5.0	0.0	3.0	0.0	0.0	0.0
S	9993510	1633	0.0	0.0	4.6	0.0	9.1	0.0	9.1	0.0	0.0	0.0
S	9993510	1633	1.2	0.3	0.7	0.0	0.6	0.0	0.6	0.0	0.5	0.0
N	9993512	442	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993517	1783	0.0	0.0	0.0	0.0	1.4	0.0	0.1	0.0	0.0	0.0
N	9993526	4022	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9993528	4919	0.0	0.0	0.0	0.0	5.6	0.0	4.2	0.0	0.0	0.0
C	9993533	424	0.0	0.0	5.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0
S	9993549	7258	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993552	6508	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993553	4317	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9993563	4023	0.0	0.0	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9993570	4318	0.0	0.0	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
S	9993579	1204	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.1
N	9993584	1598	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993586	4319	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
C	9993591	6904	0.0	0.0	3.0	0.0	1.9	0.0	1.8	0.0	0.0	0.0
C	9993599	6608	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9993608	2218	0.0	0.0	0.0	5.0	0.0	0.7	0.0	0.0	0.0	0.0
N	9993619	93	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9993620	2220	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	9993620	4715	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993621	1120	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9993624	5428	0.0	0.0	5.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0

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C	9993628	2339	0.0	0.0	0.0	5.0	0.0	8.0	0.0	0.0	0.0	0.0
N	9993643	5246	0.0	0.0	2.5	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9993653	611	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9993658	4716	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
S	9993658	5247	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
N	9993660	1096	0.0	0.0	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9993665	1525	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993666	1111	0.0	0.5	0.0	0.1	0.2	0.0	0.2	0.0	0.0	0.0
C	9993666	1111	0.0	0.0	0.0	0.0	3.0	0.0	0.3	0.0	0.0	0.0
C	9993666	1111	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993670	561	0.0	0.0	5.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0
C	9993671	650	0.0	0.5	0.6	0.0	0.1	0.0	0.1	0.0	0.1	0.0
N	9993672	489	0.0	0.0	0.0	0.0	2.1	0.0	1.6	0.0	0.0	0.0
C	9993681	6609	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993684	2281	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
S	9993684	6509	0.0	0.0	0.2	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9993684	6610	0.0	0.0	0.2	0.0	1.2	0.0	1.2	0.0	0.0	0.0
N	9993685	94	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993685	1521	0.0	0.0	0.0	5.0	0.9	0.0	0.8	0.0	0.0	0.0
C	9993688	4717	1.8	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9993694	4718	5.0	0.0	0.0	0.3	0.4	0.0	0.4	0.0	0.3	0.0
S	9993699	2654	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9993700	1119	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993700	2246	0.0	0.0	0.0	2.6	0.0	0.7	0.0	0.0	0.0	0.0
N	9993702	5775	0.0	0.0	3.8	0.0	1.0	0.0	1.0	0.0	0.0	0.0
C	9993704	4922	0.2	0.0	0.4	0.0	0.5	0.0	0.5	0.0	0.0	0.0
N	9993705	389	0.0	0.0	5.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9993706	5429	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993708	625	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993712	4719	0.0	0.0	0.0	5.0	0.8	0.0	0.7	0.0	0.0	0.0

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C	9993714	2033	0.0	0.1	0.0	10.0	3.2	0.0	1.8	0.0	0.0	0.0
N	9993723	5430	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9993723	5776	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993730	2148	0.0	0.0	0.0	2.7	0.0	0.4	0.0	0.0	0.0	0.0
S	9993744	6611	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.5	0.0
C	9993745	6905	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
N	9993752	335	0.0	0.0	0.0	0.0	6.0	0.0	0.2	0.0	0.0	0.0
S	9993758	1487	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9993759	4024	5.0	0.0	0.0	2.1	0.6	0.0	0.6	0.0	1.9	0.0
N	9993760	5777	1.1	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.0
S	9993764	2201	0.0	0.0	0.0	2.6	0.0	0.2	0.0	0.0	0.0	0.0
C	9993765	4923	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0
C	9993769	469	0.0	0.0	5.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0
S	9993777	1063	2.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9993778	2324	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993778	4025	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9993781	63	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993785	4026	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
N	9993789	5778	0.0	0.0	5.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9993796	1226	0.0	0.0	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9993797	1057	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
N	9993806	4924	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
S	9993807	4925	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9993808	6906	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
S	9993810	4320	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993812	1706	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	1.9	0.0
N	9993813	6510	0.0	0.0	5.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9993817	6907	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993819	1116	0.0	0.0	0.0	2.7	1.3	0.0	1.3	0.0	0.0	0.0
C	9993825	4321	0.0	0.0	0.0	0.9	3.2	0.0	2.9	0.0	0.0	0.0

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S	9993825	4720	2.5	0.0	0.0	3.3	1.7	0.0	1.2	0.0	0.3	0.0
N	9993837	2325	0.0	0.0	2.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9993843	5431	0.4	0.0	0.2	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9993846	5432	0.0	0.0	2.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9993853	4926	0.0	0.0	5.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0
S	9993869	1214	0.0	0.2	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9993870	6612	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993871	6083	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9993873	2297	0.0	0.0	0.0	5.0	0.0	0.8	0.0	0.0	0.0	0.0
N	9993873	2625	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993876	4027	0.0	0.0	0.0	5.1	9.3	0.0	9.0	0.0	0.0	0.0
N	9993879	7259	0.0	0.0	5.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9993881	1791	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993889	4927	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9993898	6613	0.0	0.0	5.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0
N	9993903	5779	0.6	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.0
S	9993906	6084	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993906	6511	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9993909	1408	0.0	0.0	0.0	5.0	0.7	0.0	0.7	0.0	0.0	0.0
S	9993916	4322	0.0	0.0	0.0	0.4	0.8	0.0	0.7	0.0	0.0	0.0
N	9993921	95	0.0	0.2	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9993925	2640	0.0	0.0	0.0	5.0	4.6	0.0	4.5	0.0	0.0	0.0
N	9993929	6908	0.0	0.0	1.2	0.0	2.1	0.0	2.0	0.0	0.0	0.0
N	9993942	989	0.0	0.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9993945	436	0.0	0.0	0.5	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9993950	4928	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993972	5780	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.8	0.0
S	9993976	1453	0.0	0.0	0.0	0.0	1.3	0.0	0.9	0.0	0.0	0.0
C	9993980	7260	0.0	0.0	1.4	0.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9993980	4323	0.2	0.0	0.0	2.5	0.8	0.0	0.8	0.0	0.0	0.0

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N	9993983	1095	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9993988	6512	0.0	0.0	1.7	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9993989	2721	0.0	0.0	0.0	5.0	1.0	0.0	0.9	0.0	0.0	0.0
C	9993989	4028	0.0	0.0	0.0	0.7	0.2	0.0	0.2	0.0	0.0	0.0
C	9993993	2699	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
N	9993994	4029	0.0	4.5	0.0	5.0	0.4	0.0	0.3	0.0	0.7	0.0
S	9993994	4929	0.0	0.0	0.0	0.0	1.3	0.0	0.9	0.0	0.0	0.0
S	9993995	6513	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9993998	5433	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9994001	4930	0.0	0.0	1.7	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9994004	6614	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994005	5781	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9994013	4030	0.0	0.3	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9994013	5782	0.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9994020	1211	0.0	0.0	0.0	5.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9994020	1211	0.0	0.0	0.0	0.0	1.8	0.0	1.8	0.0	0.0	0.0
N	9994021	5248	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994023	1130	0.0	0.7	0.0	0.1	0.2	0.0	0.2	0.0	0.0	0.0
S	9994029	4324	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9994031	1093	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
S	9994045	5249	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9994047	6909	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9994050	5250	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9994055	2750	0.0	0.0	0.0	5.0	1.3	0.0	1.3	0.0	0.0	0.0
C	9994056	4931	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994057	4721	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9994059	4722	0.0	0.0	0.0	5.0	0.8	0.0	0.7	0.0	0.0	0.0
S	9994062	6085	0.0	0.0	0.0	0.0	2.3	0.0	0.4	0.0	0.0	0.0
S	9994068	5251	0.0	0.0	0.0	0.0	2.5	0.0	1.8	0.0	0.0	0.0
N	9994069	5252	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0

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N	9994073	4932	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9994073	4933	7.5	0.0	4.4	0.0	2.9	0.0	2.9	0.0	3.0	0.0
C	9994075	1038	0.0	0.3	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.1
N	9994078	1012	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
C	9994079	4723	0.0	0.0	0.0	2.7	0.8	0.0	0.8	0.0	0.0	0.0
S	9994081	4325	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994082	1129	0.0	0.0	0.0	2.9	0.1	0.0	0.1	0.0	0.0	0.0
N	9994084	496	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9994089	6615	0.1	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994090	2181	0.0	0.0	1.8	0.0	0.0	1.3	0.0	0.0	0.0	0.0
S	9994090	4326	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9994092	6514	0.0	0.0	5.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
N	9994098	6616	0.0	0.0	5.0	0.0	2.5	0.0	2.5	0.0	0.0	0.0
S	9994099	4724	1.5	0.0	0.0	1.1	0.3	0.0	0.3	0.0	0.0	0.0
N	9994100	4934	0.0	0.0	1.6	0.0	9.3	0.0	8.9	0.0	0.0	0.0
N	9994104	7261	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9994126	6515	0.2	0.0	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994132	5783	0.0	0.0	2.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0
C	9994134	1592	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.0
N	9994136	1824	0.0	0.0	0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0
N	9994138	4725	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	9994141	4726	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9994143	1764	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
S	9994144	2845	0.1	0.0	0.0	0.0	1.3	0.0	0.1	0.0	0.0	0.0
C	9994146	1701	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9994151	1210	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9994158	2085	0.0	0.0	0.0	5.0	0.0	0.9	0.0	0.0	0.0	0.0
N	9994161	1383	0.0	0.0	0.0	0.8	0.1	0.0	0.1	0.0	0.0	0.0
S	9994166	5434	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9994173	4727	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.0

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S	9994175	4031	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994185	5435	0.0	0.0	5.3	0.0	0.9	0.0	0.8	0.0	0.0	0.0
S	9994200	4935	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
N	9994203	1757	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9994223	5784	0.0	0.0	0.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9994229	4936	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9994242	2696	0.0	0.0	0.0	0.0	1.8	0.0	1.3	0.0	0.0	0.0
N	9994247	4728	5.0	0.0	0.0	3.5	3.7	0.0	3.5	0.0	0.1	0.0
N	9994256	6910	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
N	9994257	1225	0.0	0.0	0.0	0.0	2.4	0.0	1.8	0.0	0.0	0.0
S	9994258	6516	0.0	0.0	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9994266	4032	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9994268	4033	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
S	9994272	6347	3.2	0.0	4.9	0.0	1.9	0.0	1.8	0.0	0.7	0.0
S	9994279	4937	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9994284	7262	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9994290	6617	0.0	0.0	0.0	0.0	7.5	0.0	7.5	0.0	0.0	0.0
C	9994293	4729	0.0	0.0	0.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
N	9994294	1099	0.0	0.0	0.0	0.0	0.9	0.0	0.7	0.0	0.0	0.0
N	9994299	4730	0.0	0.0	0.0	0.5	0.4	0.0	0.4	0.0	0.0	0.0
N	9994301	1151	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
C	9994301	2074	0.0	0.0	0.0	1.2	0.0	0.2	0.0	0.0	0.0	0.0
C	9994304	4034	0.0	0.0	0.0	5.0	1.1	0.0	1.1	0.0	0.0	0.0
C	9994311	5785	0.2	0.0	5.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0
N	9994325	2627	0.0	0.0	0.0	0.4	0.1	0.0	0.1	0.0	0.0	0.0
C	9994332	4938	0.0	0.0	0.2	0.0	1.1	0.0	1.0	0.0	0.0	0.0
N	9994336	2294	0.0	0.0	5.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
N	9994341	5253	0.0	0.0	2.5	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9994345	6911	0.0	0.0	1.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0
C	9994346	4035	0.0	0.0	0.0	1.2	0.2	0.0	0.2	0.0	0.0	0.0

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N	9994349	5436	0.0	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994370	5786	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9994371	2206	0.0	0.0	1.7	3.3	0.0	0.8	0.0	0.0	0.0	0.0
N	9994373	5254	0.0	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9994381	6912	0.0	0.0	1.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994422	6517	0.0	0.0	0.8	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9994424	4731	0.1	0.0	0.0	3.6	0.3	0.0	0.3	0.0	0.0	0.0
N	9994427	4732	0.0	0.0	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0
N	9994433	1665	0.0	0.0	0.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0
N	9994434	5255	1.1	0.0	0.6	0.0	0.8	0.0	0.8	0.0	0.3	0.0
N	9994436	988	0.0	0.0	0.0	0.3	1.1	0.0	1.1	0.0	0.0	0.0
N	9994452	5787	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994456	4733	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9994461	4940	0.0	0.0	1.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994467	4941	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9994474	6518	0.0	0.0	0.2	0.0	0.3	0.0	0.1	0.0	0.0	0.0
N	9994486	1152	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0
N	9994495	1221	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.0
N	9994517	4942	0.0	0.0	5.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9994531	1384	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9994536	1391	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994544	4734	0.0	0.0	0.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9994588	4036	0.0	0.0	0.0	0.7	0.1	0.0	0.1	0.0	0.0	0.0
N	9994594	4327	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.0	0.0	0.0
N	9994596	4735	0.0	0.0	4.5	0.0	2.1	0.0	0.0	0.0	0.0	0.0
N	9994620	1573	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9994632	4943	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9994650	4944	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994703	5437	0.1	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994740	6519	0.0	0.0	2.4	0.0	1.2	0.0	1.0	0.0	0.0	0.0

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N	9994746	6618	0.0	0.0	0.0	0.0	1.5	0.0	0.5	0.0	0.0	0.0
N	9994757	2722	0.0	0.0	0.0	0.0	2.6	0.0	1.0	0.0	0.0	0.0
N	9994772	7263	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9994787	1385	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9994803	1825	0.0	0.0	0.1	0.0	0.4	0.0	0.4	0.0	0.0	0.0
N	9994806	1386	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9994808	4037	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9994841	4328	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
N	9994852	5438	0.0	0.0	0.1	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9994854	6520	0.0	0.0	1.0	0.0	1.0	0.0	0.9	0.0	0.0	0.0
N	9994879	2638	1.0	0.0	0.0	1.5	0.3	0.0	0.3	0.0	0.1	0.0
N	9994884	4329	0.0	0.0	0.0	1.1	0.3	0.0	0.3	0.0	0.0	0.0
N	9994892	1388	0.0	0.0	0.0	5.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9994994	5256	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9995004	4945	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9995021	6521	0.0	0.0	0.7	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9995032	6913	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9995052	4330	0.0	0.0	0.0	0.7	0.3	0.0	0.3	0.0	0.0	0.0
N	9995057	7264	0.0	0.0	2.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9995069	4038	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
N	9995085	4946	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
N	9995109	6522	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0
N	9995113	4331	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0
N	9995132	5788	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
N	9995135	5439	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9995197	4736	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9995241	4947	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9995271	4039	0.0	0.0	0.0	5.0	0.5	0.0	0.5	0.0	0.0	0.0
S	9995272	5440	0.0	0.0	0.2	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9995280	4332	0.0	0.0	0.0	5.0	1.1	0.0	1.1	0.0	0.0	0.0

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S	9995287	4333	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
C	9995323	4737	0.0	0.0	1.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9995670	5789	0.0	0.0	4.6	0.0	1.2	0.0	1.2	0.0	0.0	0.0
C	9995685	4334	0.0	0.0	0.0	5.0	1.1	0.0	1.1	0.0	0.0	0.0
C	9995708	4335	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	9995709	2724	0.0	25.6	0.0	1.4	0.0	1.3	0.0	0.0	5.6	0.0
N	9995795	4336	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
S	9996040	4948	22.5	0.0	1.7	0.0	0.7	0.0	0.8	0.0	0.0	0.0
N	9996058	4040	0.0	0.0	0.0	0.0	3.8	0.0	3.5	0.0	0.0	0.0
N	9996171	5441	0.2	0.0	0.1	0.0	3.6	0.0	2.2	0.0	0.0	0.0
N	9996317	6619	0.0	0.0	0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9996349	4738	0.0	0.0	0.1	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9996452	4949	0.0	0.0	1.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0
S	9996476	4739	0.5	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9996482	7265	0.0	0.0	0.0	0.0	10.5	0.0	9.7	0.0	0.0	0.0
S	9996489	5442	0.0	0.0	0.3	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9996498	5790	1.0	0.0	0.4	0.0	0.5	0.0	0.5	0.0	0.2	0.0
S	9996528	4950	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9996642	4740	0.7	0.0	0.0	0.0	0.6	0.0	0.5	0.0	0.0	0.0
S	9996645	5443	0.0	0.0	0.0	0.0	1.1	0.0	0.8	0.0	0.0	0.0
S	9996695	4041	0.0	0.0	0.0	0.2	1.2	0.0	1.0	0.0	0.0	0.0
S	9996703	4952	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
S	9996709	4337	0.0	0.0	0.0	0.0	1.9	0.0	1.4	0.0	0.0	0.0
S	9996717	4338	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0
S	9996719	5444	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	9996743	4951	7.3	0.0	0.3	0.0	11.5	0.0	4.3	0.0	172.5	0.0
N	9996761	4339	0.0	0.0	0.0	5.0	1.2	0.0	1.2	0.0	0.0	0.0
S	9996775	4741	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9996797	6620	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9996823	5791	0.0	0.0	2.7	0.0	2.7	0.0	2.7	0.0	0.0	0.0

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S	9996899	5445	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9996914	5446	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9996929	5792	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9996939	4340	0.0	0.0	0.0	5.0	0.5	0.0	0.5	0.0	0.0	0.0
S	9996941	4742	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9996945	4743	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9996947	5447	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0
S	9996947	6348	0.5	0.0	2.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9996953	5793	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
C	9996955	4042	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9996961	4341	0.0	0.0	0.0	0.3	0.6	0.0	0.6	0.0	0.0	0.0
S	9996994	6523	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9997029	4342	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
S	9997035	5448	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9997064	5257	0.0	0.0	2.5	0.0	0.5	0.0	0.5	0.0	0.0	0.0
S	9997071	6914	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
N	9997107	4343	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9997137	4344	0.0	0.0	0.0	5.0	1.1	0.0	1.1	0.0	0.0	0.0
S	9997166	6524	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
S	9997169	4345	0.0	0.0	0.0	2.7	4.8	0.0	2.0	0.0	0.0	0.0
N	9997173	6086	0.0	0.0	0.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9997178	5258	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0
C	9997179	5794	0.0	0.0	10.0	0.0	2.3	0.0	2.3	0.0	0.0	0.0
N	9997197	5259	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9997202	6525	0.0	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.0
C	9997210	4744	0.0	0.0	5.0	0.0	1.1	0.0	1.0	0.0	0.0	0.0
C	9997215	5795	0.0	0.0	10.0	0.0	2.3	0.0	2.3	0.0	0.0	0.0
N	9997216	5796	0.0	0.0	1.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9997230	4953	0.0	0.0	0.1	0.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9997231	5260	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0

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N	9997246	4346	0.0	0.0	0.0	0.0	0.6	0.0	0.5	0.0	0.0	0.0
C	9997257	6621	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9997331	4347	0.3	0.0	0.0	5.0	1.1	0.0	1.1	0.0	0.0	0.0
N	9997347	5261	0.3	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9997352	4348	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
N	9997353	4954	0.0	0.0	0.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0
C	9997354	7266	0.0	0.0	2.7	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9997359	4349	0.4	0.0	0.0	5.0	1.2	0.0	1.2	0.0	0.0	0.0
C	9997382	5798	0.3	0.0	5.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0
C	9997387	4955	0.0	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9997390	4350	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9997393	5262	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9997400	6526	0.0	0.0	0.8	0.0	0.4	0.0	0.3	0.0	0.0	0.0
C	9997407	6087	0.0	0.0	5.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9997422	4956	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9997432	5449	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9997444	4957	4.2	0.0	0.3	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9997450	6622	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9997474	4745	0.0	0.0	5.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0
S	9997487	6527	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9997487	6623	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9997490	4043	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9997496	4746	0.0	0.0	0.1	0.0	1.3	0.0	1.3	0.0	0.0	0.0
N	9997519	5450	0.0	0.0	0.0	0.0	2.9	0.0	2.7	0.0	0.0	0.0
C	9997526	5451	0.0	0.0	0.1	0.0	0.8	0.0	0.8	0.0	0.0	0.0
N	9997593	5263	0.0	0.0	1.3	0.0	1.2	0.0	1.2	0.0	0.0	0.0
S	9997622	5452	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9997644	7267	0.0	0.0	5.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0
N	9997650	4958	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9997683	5799	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	9997701	6624	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9997705	5264	0.0	0.0	2.5	0.0	0.6	0.0	0.6	0.0	0.0	0.0
S	9997713	7268	0.8	0.0	0.7	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9997714	5800	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9997715	5801	0.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
N	9997722	6625	0.0	0.0	3.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
S	9997744	5802	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9997746	4959	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9997761	6528	0.0	0.0	0.4	0.0	0.3	0.0	0.3	0.0	0.0	0.0
S	9997762	6626	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9997771	7269	0.0	0.0	5.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0
N	9997780	5265	0.0	0.0	0.1	0.0	0.9	0.0	0.9	0.0	0.0	0.0
N	9997786	4747	0.0	0.0	0.0	0.0	2.9	0.0	0.6	0.0	0.0	0.0
S	9997792	7270	0.0	0.0	0.0	0.0	1.0	0.0	0.7	0.0	0.0	0.0
S	9997803	5803	9.8	0.0	9.1	0.0	1.2	0.0	1.2	0.0	2.1	0.0
N	9997806	4351	0.0	0.0	0.0	2.7	0.5	0.0	0.5	0.0	0.0	0.0
C	9997807	6627	0.4	0.0	5.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0
N	9997824	6529	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9997835	7271	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9997847	6530	0.0	0.0	5.0	0.0	0.7	0.0	0.7	0.0	0.0	0.0
N	9997854	6915	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
S	9997866	6916	0.0	0.0	2.7	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9997881	7272	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9997906	4352	0.0	0.0	0.0	5.0	1.2	0.0	1.2	0.0	0.0	0.0
N	9997910	5804	0.0	0.0	0.0	0.0	0.8	0.0	0.8	0.0	0.0	0.0
C	9997920	6917	0.0	0.0	5.0	0.0	1.3	0.0	1.2	0.0	0.0	0.0
C	9997939	6531	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
N	9997948	4960	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9997966	4961	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9997968	5806	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0

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N	9997969	6532	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9997990	5453	0.0	0.0	0.6	0.0	0.8	0.0	0.7	0.0	0.0	0.0
N	9997998	7273	0.0	0.0	5.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0
C	9998000	7274	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9998018	4748	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
C	9998020	5807	0.0	0.0	1.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0
N	9998040	6918	0.0	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0
S	9998050	6628	0.0	0.0	2.7	0.0	4.7	0.0	4.4	0.0	0.0	0.0
S	9998136	7275	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9998154	5454	1.6	0.0	0.1	0.0	0.9	0.0	0.9	0.0	0.0	0.0
S	9998159	5808	0.6	0.0	3.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0
C	9998162	5455	0.0	0.0	0.0	0.0	1.1	0.0	0.2	0.0	0.0	0.0
N	9998184	5456	0.0	0.0	5.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
N	9998193	5809	0.0	0.0	0.0	0.0	1.2	0.0	1.1	0.0	0.0	0.0
N	9998249	6629	0.1	0.0	3.5	0.0	1.0	0.0	0.9	0.0	0.0	0.0
C	9998255	6630	0.0	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9998261	5810	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9998262	6631	0.0	0.0	5.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9998277	6919	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9998287	6533	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0
S	9998305	6632	0.0	0.0	0.9	0.0	5.6	0.0	5.2	0.0	0.0	0.0
N	9998307	7276	0.0	0.0	5.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9998307	6920	0.0	0.0	2.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
C	9998406	6633	0.0	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9998458	6634	0.0	0.0	5.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
S	9998470	7277	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9998480	5811	0.0	0.0	0.8	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9998481	6088	0.0	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9998513	5812	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9998550	5457	0.0	0.0	5.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0

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C	9998562	6921	0.0	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
S	9998567	6635	0.9	0.0	0.6	0.0	0.8	0.0	0.8	0.0	1.8	0.0
N	9998574	6922	0.0	0.0	5.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9998580	5813	0.0	0.0	5.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9998598	6923	0.0	0.0	5.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
N	9998602	7278	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9998631	6089	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	9998633	7279	0.0	0.0	5.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
C	9998789	6924	0.0	0.0	5.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
N	9998795	6534	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
S	9998868	6925	0.0	0.0	4.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
S	9998903	6926	0.0	0.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	9998904	7280	0.0	0.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	9998919	7281	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
C	9999010	7282	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0

Field Key:

- [pollutant] Balance – value in surplus carry-over balance in tons per year
- [pollutant] Used – value previously used a surplus value mitigation in past equivalency demonstrations in tons per year

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Appendix D-5

Ag Engine Electrification Projects

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S	8881233	3129	0.0	3.1	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
S	8881233	3130	0.0	3.6	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
S	8881233	3131	0.0	4.3	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
S	8881233	3132	0.0	4.3	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
S	8881236	3133	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881247	3134	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881247	3135	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881247	3136	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881901	2908	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882190	2913	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880955	2915	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881583	3256	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881583	3257	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881583	3258	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881584	3259	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881585	3260	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3261	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3262	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3263	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3264	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3265	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881585	3266	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881585	3267	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881585	3268	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3269	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881222	2903	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881813	2967	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881849	2970	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881896	2980	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881896	2981	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881896	2982	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881896	2983	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881896	2984	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881971	2995	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881971	2996	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881971	2997	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881971	2998	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881971	2999	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881972	3000	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881972	3001	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881972	3002	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881972	3003	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881972	3004	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881972	3005	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881972	3006	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881984	3009	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881988	3010	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881988	3011	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881989	3012	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882046	3023	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882076	3030	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882076	3031	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882108	3033	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882117	3034	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882141	3036	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882190	3037	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882210	3038	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882240	3039	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882384	3042	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880901	3046	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880901	3047	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880901	3048	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880929	3049	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880940	3050	0.0	0.9	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
N	8880941	3051	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880943	3052	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880947	3053	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880947	3054	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880948	3055	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880948	3056	0.0	3.3	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
N	8880950	3057	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880955	3058	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880955	3059	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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N	8880972	3065	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880974	3066	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880980	3067	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880955	3060	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880955	3061	0.0	1.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880955	3062	0.0	1.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880958	3063	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880965	3064	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880989	3068	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880998	3069	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	8880998	3070	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	8881070	3071	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881028	3072	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881028	3073	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881028	3074	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881028	3075	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881028	3076	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881101	3080	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881106	3081	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881111	3082	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881028	3077	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3078	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881101	3079	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881111	3083	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881111	3084	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	8881111	3085	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881142	3089	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881111	3086	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881111	3087	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881136	3088	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881145	3090	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881145	3104	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881165	3091	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881169	3092	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881179	3093	0.0	3.6	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
S	8881181	3094	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881187	3095	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881188	3096	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881188	3097	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881188	3098	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881188	3099	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881188	3100	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881188	3101	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881188	3102	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881188	3103	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881190	3105	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881190	3106	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881190	3107	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881203	3108	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881209	3109	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	8881209	3110	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881209	3111	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881209	3112	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881210	3113	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881221	3114	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881222	3115	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881222	3116	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881222	3117	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881222	3118	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881228	3119	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881232	3120	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881233	3121	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881233	3122	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881233	3123	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881233	3124	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881233	3125	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881233	3126	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881233	3127	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881233	3128	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881262	3137	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881275	3138	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881293	3139	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881341	3140	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881367	3141	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881504	3142	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881504	3143	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881523	3144	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881528	3145	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881533	3146	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881551	3147	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881551	3148	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881551	3149	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881551	3150	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881551	3151	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881551	3152	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881551	3153	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881551	3154	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3155	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3156	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3157	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3158	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3159	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3160	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3161	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3162	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881567	3163	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3164	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3165	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3166	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3167	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881568	3168	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3169	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3170	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3171	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3172	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3173	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3174	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3175	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3176	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3177	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3178	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3179	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3180	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3181	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3182	0.0	3.5	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881568	3183	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3184	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3185	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3186	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3187	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3188	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3189	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3190	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3191	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3192	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881568	3193	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3194	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3195	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3196	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3197	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3198	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3199	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3200	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3201	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3202	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3203	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3204	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3205	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3206	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3207	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3208	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3209	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881568	3210	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3212	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3213	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3214	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3215	0.0	3.6	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881568	3216	0.0	3.6	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881568	3217	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3218	0.0	3.3	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0

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C	8881568	3219	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3211	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3220	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3221	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3222	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3223	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3224	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3225	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3226	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3227	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881568	3228	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881572	3229	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881572	3230	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881572	3231	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881572	3232	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881572	3233	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881675	3484	0.0	2.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881676	3485	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	8881676	3486	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	8881676	3487	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	8881676	3488	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	8881676	3489	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881679	3490	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881572	3234	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881574	3235	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881575	3236	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881575	3237	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881575	3238	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881576	3239	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881576	3240	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881576	3241	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881576	3242	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881576	3243	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881576	3244	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881577	3245	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881577	3247	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881577	3248	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881577	3249	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881578	3250	0.0	2.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881577	3246	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881579	3251	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881579	3252	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881580	3253	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881582	3254	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881583	3255	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3270	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3271	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3272	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3273	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3274	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881585	3275	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3276	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3277	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3278	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3279	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3280	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3281	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3282	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3283	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3284	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3285	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3286	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3287	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3288	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3289	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3290	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3291	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3292	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3293	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3294	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3295	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3296	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881585	3297	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881586	3298	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881586	3299	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881586	3300	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881587	3301	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881587	3302	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881587	3303	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881587	3304	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881587	3305	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881589	3306	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881589	3307	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881589	3308	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881591	3309	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3310	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3311	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3312	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3313	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3314	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3315	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3316	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3317	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3318	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3319	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3320	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3321	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3322	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3323	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3324	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881591	3325	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3326	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3327	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3328	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3329	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3330	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3331	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3332	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3333	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3334	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881591	3335	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3336	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3337	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3338	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3339	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3340	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3341	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3342	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3343	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3344	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881595	3345	0.0	3.3	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881595	3346	0.0	3.6	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881595	3347	0.0	3.8	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881598	3348	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881600	3349	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881600	3350	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881600	3351	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881600	3352	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881601	3353	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881601	3354	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881601	3355	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881602	3356	0.0	3.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3357	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3358	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3359	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3360	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3361	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3362	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3363	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3364	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881603	3365	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881604	3366	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881605	3367	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881605	3368	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881606	3369	0.0	3.8	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881606	3370	0.0	4.3	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881607	3371	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881608	3372	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881608	3373	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881611	3374	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881611	3375	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881611	3376	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881614	3377	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881615	3378	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881616	3379	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881620	3380	0.0	0.9	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	8881620	3381	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881620	3382	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881620	3384	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881620	3383	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881620	3385	0.0	2.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881620	3386	0.0	4.5	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881621	3387	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881622	3388	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881623	3389	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881625	3390	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881625	3391	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881625	3392	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881627	3393	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881627	3394	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881627	3395	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881627	3396	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881627	3397	0.0	2.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881632	3398	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881633	3399	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881635	3400	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881637	3401	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881637	3402	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881637	3403	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881638	3404	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3405	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3406	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3407	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3408	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3409	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3410	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3411	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3412	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3413	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3414	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3415	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3416	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3417	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3418	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881639	3419	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881640	3420	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881640	3422	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881640	3423	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881640	3424	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881640	3425	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881640	3426	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881640	3427	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881642	3428	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881644	3429	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881640	3421	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881645	3430	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881645	3431	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881647	3432	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881647	3433	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881647	3434	0.0	4.0	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881648	3435	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881649	3436	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881649	3437	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881649	3438	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881649	3439	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881650	3440	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881650	3441	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881650	3442	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881650	3443	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881652	3444	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881653	3445	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881653	3446	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881654	3447	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881655	3448	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881657	3449	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881657	3450	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881657	3451	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881657	3452	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881658	3453	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3454	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3455	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3457	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3458	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3459	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3460	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3456	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3461	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3462	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881658	3463	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881660	3464	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881664	3465	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881666	3466	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881666	3467	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881666	3468	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881666	3469	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881666	3470	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881667	3471	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881668	3472	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881669	3473	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881669	3474	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881669	3475	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881669	3476	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881669	3477	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881669	3478	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881669	3479	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881670	3480	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881670	3481	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881672	3482	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881672	3483	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881680	3492	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881681	3493	0.0	3.4	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881681	3494	0.0	3.4	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881681	3495	0.0	3.4	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
C	8881679	3491	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881683	3496	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881684	3497	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881686	3498	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881686	3499	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881686	3500	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881686	3501	0.0	1.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881686	3502	0.0	1.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881686	3503	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881687	3504	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881687	3505	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881687	3506	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881688	3507	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881689	3508	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881690	3509	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881692	3510	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881693	3511	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881693	3512	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881693	3513	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881693	3514	0.0	1.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881694	3515	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881694	3516	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881694	3517	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881695	3518	0.0	2.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881696	3519	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881696	3520	0.0	1.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881696	3521	0.0	1.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881697	3522	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881697	3523	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881698	3524	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881698	3525	0.0	1.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881702	3526	0.0	1.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881702	3527	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881702	3528	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881702	3529	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881703	3530	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881706	3531	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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C	8881709	3532	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881713	3533	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881713	3534	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881715	3535	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881715	3536	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881715	3537	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881715	3538	0.0	1.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881715	3539	0.0	1.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881715	3540	0.0	1.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8881715	3541	0.0	1.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881715	3542	0.0	1.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881715	3543	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881715	3544	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881715	3545	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881715	3546	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881715	3547	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881715	3548	0.0	1.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881716	3549	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881717	3550	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881718	3551	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881724	3552	0.0	1.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881725	3553	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881725	3554	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881725	3555	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881725	3556	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0

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C	8881725	3557	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881725	3558	0.0	1.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881727	3559	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881728	3560	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881728	3562	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881728	3563	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881728	3564	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881729	3565	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881728	3561	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881729	3566	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881729	3567	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881729	3568	0.0	0.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	8881729	3569	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	8881729	3570	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881729	3571	0.0	1.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881730	3572	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881731	3573	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881738	3574	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881739	3575	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881740	3576	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881742	3577	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881742	3578	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881742	3579	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881742	3580	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881742	3581	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881742	3582	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881744	3583	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881744	3584	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881744	3585	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881746	3586	0.0	2.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881747	3587	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881747	3588	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881747	3589	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881748	3590	0.0	1.7	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881750	3591	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881750	3592	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881751	3593	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881751	3594	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881757	3595	0.0	1.9	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881759	3596	0.0	1.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881759	3597	0.0	2.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881759	3598	0.0	2.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881759	3599	0.0	2.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881759	3600	0.0	2.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881759	3601	0.0	2.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881759	3602	0.0	2.1	0.0	0.1	0.0	0.1	3.0	0.0	0.0	0.0
C	8881759	3603	0.0	3.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
C	8881759	3604	0.0	3.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
C	8881759	3605	0.0	3.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
C	8881759	3606	0.0	3.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0

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C	8881759	3607	0.0	3.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
C	8881759	3608	0.0	3.4	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
C	8881759	3609	0.0	3.4	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
C	8881761	3610	0.0	2.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881761	3611	0.0	2.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881761	3612	0.0	3.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0
C	8881762	3613	0.0	2.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881763	3614	0.0	2.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881765	3615	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881775	3616	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881775	3617	0.0	2.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881776	3618	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881776	3619	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881778	3620	0.0	2.7	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881783	3621	0.0	1.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881799	3622	0.0	1.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881805	3623	0.0	1.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881811	3624	0.0	1.7	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881811	3625	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881811	3626	0.0	1.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881812	3627	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881812	3628	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881812	3629	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881812	3630	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881812	3632	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0

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C	8881814	3634	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881825	3635	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881829	3636	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881829	3637	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881829	3638	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881832	3639	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881812	3631	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881837	3640	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881837	3641	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881844	3642	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881844	3643	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881844	3644	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881858	3646	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881858	3647	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881859	3648	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881859	3649	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881859	3650	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881863	3651	0.0	1.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881873	3652	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881874	3653	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881874	3654	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881874	3655	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881875	3656	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881877	3657	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881878	3658	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0

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C	8881878	3659	0.0	1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881878	3660	0.0	2.9	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0
C	8881878	3661	0.0	5.1	0.0	0.3	0.0	0.2	0.0	0.0	0.0	0.0
C	8881879	3662	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	8881879	3663	0.0	1.7	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881879	3664	0.0	2.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881879	3665	0.0	2.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881881	3667	0.0	1.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	8881882	3668	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881882	3669	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881885	3670	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881879	3666	0.0	2.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881886	3671	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881887	3672	0.0	1.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881892	3673	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	8881892	3674	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	8881892	3675	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881892	3676	0.0	1.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881892	3677	0.0	1.9	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881892	3678	0.0	2.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881894	3679	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881900	3680	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881906	3681	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881908	3682	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881908	3683	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	8881908	3684	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881908	3685	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881908	3686	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881908	3687	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881916	3688	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881926	3689	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881927	3690	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
C	8881928	3691	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881928	3692	0.0	2.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881938	3693	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881949	3694	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881949	3695	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881950	3696	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881962	3697	0.0	0.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
C	8881962	3698	0.0	1.6	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881962	3699	0.0	1.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881970	3700	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881973	3701	0.0	1.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8881977	3702	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881982	3703	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881991	3704	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8881997	3705	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882007	3706	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882007	3707	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882007	3708	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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C	8882012	3709	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882030	3710	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882030	3711	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882030	3712	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882030	3713	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882032	3714	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882035	3715	0.0	1.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8882041	3716	0.0	1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
C	8882041	3717	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882053	3718	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882053	3719	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882059	3720	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882060	3721	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882066	3722	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882070	3723	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882073	3724	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
C	8882079	3725	0.0	0.9	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
C	8882134	3726	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882310	3727	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	8882310	3728	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	888829	3729	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	888829	3730	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	888829	3731	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	888829	3732	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	888829	3733	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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N	888829	3734	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880808	3735	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880808	3737	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880808	3738	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880811	3739	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880811	3740	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880811	3741	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880811	3742	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880808	3736	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880811	3743	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	8880811	3744	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880811	3745	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880813	3746	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880813	3747	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880813	3748	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880813	3749	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880813	3750	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880813	3751	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880814	3752	0.0	2.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880815	3753	0.0	3.1	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
N	8880815	3754	0.0	3.1	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
N	8880816	3755	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880818	3756	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880818	3757	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880818	3758	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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N	8880818	3759	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880818	3760	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880818	3761	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880820	3762	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880820	3763	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880820	3764	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880820	3765	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880821	3766	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880821	3767	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880824	3768	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880824	3769	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880829	3770	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
N	8880829	3772	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880829	3773	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880829	3771	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880829	3774	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880830	3775	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880833	3776	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880834	3777	0.0	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
N	8880834	3778	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880834	3779	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880834	3780	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880834	3781	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880837	3782	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880837	3783	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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N	8880837	3784	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880837	3785	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880837	3786	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880839	3787	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880840	3788	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880840	3789	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880841	3790	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880842	3791	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880844	3792	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880847	3793	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880848	3794	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880848	3795	0.0	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
N	8880848	3796	0.0	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
N	8880848	3797	0.0	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
N	8880849	3798	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880864	3799	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880867	3800	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880871	3801	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880871	3802	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880891	3803	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880891	3804	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880893	3805	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880901	3807	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880909	3811	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880909	3812	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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N	8880909	3813	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880909	3814	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880909	3815	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880909	3816	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880893	3806	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880928	3817	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880942	3821	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880963	3829	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	8880980	3833	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8880980	3834	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
N	8881006	3836	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880888	3837	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880897	3838	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880897	3839	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880930	3840	0.0	2.7	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
S	8880940	3842	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880942	3843	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880942	3844	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880942	3845	0.0	2.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880943	3846	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880943	3847	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880940	3841	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880943	3848	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880944	3849	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880946	3850	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0

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S	8880952	3851	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880952	3852	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880967	3853	0.0	3.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
S	8880967	3854	0.0	3.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
S	8880967	3855	0.0	3.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0
S	8880968	3856	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880968	3857	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880968	3858	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880970	3859	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880970	3860	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880975	3861	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880975	3862	0.0	1.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880976	3863	0.0	2.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880976	3864	0.0	2.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880977	3865	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880978	3866	0.0	1.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880979	3867	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880985	3868	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880985	3869	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880986	3870	0.0	2.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880996	3871	0.0	1.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8880998	3872	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3873	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3874	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3875	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	8880998	3877	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3878	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3876	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3879	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3880	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3881	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3882	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3883	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3884	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8880998	3885	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881003	3886	0.0	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
S	8881006	3887	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881009	3888	0.0	2.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881010	3889	0.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881010	3890	0.0	1.4	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881012	3891	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881012	3892	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881012	3893	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881012	3894	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881013	3895	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881016	3896	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881016	3897	0.0	2.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881018	3898	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881019	3899	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881024	3900	0.0	4.9	0.0	0.3	0.2	0.0	0.0	0.0	0.2	0.0

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S	8881026	3901	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881029	3908	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881030	3909	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
S	8881030	3910	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
S	8881030	3911	0.0	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
S	8881043	3912	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881043	3913	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881058	3918	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3919	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3923	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3924	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3925	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3929	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3930	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3931	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3914	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3915	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3916	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3920	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3921	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881058	3922	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881058	3926	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3927	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3928	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3932	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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S	8881058	3933	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881058	3934	0.0	1.5	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881076	3938	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881077	3939	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881077	3940	0.0	3.1	0.0	0.2	0.2	0.0	0.0	0.0	0.2	0.0
S	8881082	3944	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881088	3945	0.0	1.7	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881058	3935	0.0	2.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881062	3936	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881076	3937	0.0	2.6	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881082	3941	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881082	3942	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881082	3943	0.0	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881119	3957	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881119	3958	0.0	1.8	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881118	3955	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881119	3956	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881141	3960	0.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0
S	8881174	3966	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881221	3983	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	8881221	3984	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Field Key:

- [pollutant] Balance – value in surplus carry-over balance in tons per year
- [pollutant] Used – value previously used a surplus value mitigation in past equivalency demonstrations in tons per year

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Appendix D-6

Re-surplusing of Surplus Carry-Over Creditable Reductions

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Re-surplusing of Surplus Carry-Over Creditable Reductions

Discounts due to change in rule applicability:

Region	Project	Track Number	Discount	SOx Balance	Previous DOQ Adj	Net Adj SOx Balance
N	1020215	204	100%	22.9	(22.9)	0.0
S	1040705	1882	100%	516.8	0.0	516.8
S	1081413	4226	100%	0.0	0.0	0.0
N	1083510	4507	100%	22.4	(12.9)	9.5
S	1084594	4386	100%	7.7	(5.7)	2.0
S	1103628	4778	100%	16.7	0.3	17.0
S	1114818	5056	100%	5.4	(0.5)	4.9
S	1120718	5051	100%	1.1	0.0	1.1
S	1120872	5061	100%	0.7	0.0	0.7
S	1130506	5491	100%	0.7	0.0	0.7
S	1133800	5864	100%	0.2	0.0	0.2
S	1140709	5876	100%	3.7	0.0	3.7
S	1140710	5877	100%	1.8	0.0	1.8
S	1141820	6111	100%	0.3	(0.5)	0.0
S	1141820	6112	100%	0.9	(0.5)	0.5
S	1144293	6114	100%	0.9	1.2	2.1
S	1150871	6375	100%	0.5	0.0	0.5
S	1150871	6376	100%	1.2	0.0	1.2
S	1150872	6377	100%	0.7	0.0	0.7
S	1153671	6370	100%	0.5	(5.4)	0.0
C	1170082	7141	100%	0.0	0.0	0.0
S	1173420	6815	100%	0.6	0.0	0.6
S	1183515	7123	100%	0.0	0.0	0.0
S	1190921	7144	100%	0.0	0.0	0.0
S	1190962	7124	100%	0.0	(0.5)	0.0

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Field Key:

- Discount – percent reduction applied to surplus value of credit in carry-over bank due to changes to rules or regulations
- SOx Balance – value in surplus carry-over balance in tons per year
- Previous DOQ Adj – adjustment previously made during this demonstration period to account for District Offset Quantity adjustments in tons per year
- Net Adj SOx Balance – net adjustment necessary to surplus carry-over balance in tons per year

Changes to correct negative balance:

Region	Project	Track Number	SOx Balance	Adj SOx Balance
S	1020772	883	(3.5)	3.5
S	1011383	933	(10.6)	10.6
S	1011383	934	(12.3)	12.3
S	1020996	937	(0.1)	0.1
S	1032551	1287	(52.0)	52.0

Field Key:

- SOx Balance – value in surplus carry-over balance in tons per year
- Adj SOx Balance – adjustment necessary to surplus carry-over balance in tons per year

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Appendix D-7

Surplus Adjustments Due to District Offset Quantity Adjustments

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Surplus Adjustments Due to District Offset Quantity Adjustments

Adjustments to PM10 Surplus Carry-over:

Region	Facility Id	Project	DOQ PM10	adj DOQ PM10	adj Percent	PM10 Balance	PM10 Used	adj Surplus PM10
C	1380	1011237	16.1	(16.1)	-100.0%	17.5	0.0	(17.5)
C	963	1011331	1.7	(1.7)	-100.0%	1.9	0.0	(1.9)
S	3412	1011383	49.7	(49.7)	-100.0%	17.2	0.0	(17.2)
N	4607	1011408	140.4	(122.5)	-87.3%	139.4	0.0	(121.6)
S	335	1020672	0.5	(0.5)	-100.0%	0.6	0.0	(0.6)
S	1246	1020894	0.3	0.2	66.7%	0.2	0.0	0.1
N	4940	1030648	12.9	4.6	35.7%	0.0	0.0	0.0
S	2076	1030705	0.3	0.2	66.7%	0.7	0.0	0.5
N	355	1040517	1.2	0.1	8.3%	1.4	0.0	0.1
S	1372	1041721	5.0	(1.3)	-26.0%	5.2	0.0	(1.4)
N	3696	1042295	0.3	(0.3)	-100.0%	0.3	0.0	(0.3)
C	6923	1051449	15.5	(4.1)	-26.5%	4.4	8.6	(3.4)
S	1246	1052026	0.9	(0.9)	-100.0%	0.4	0.5	(0.9)
S	1548	1054675	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
S	6788	1060449	21.8	(21.8)	-100.0%	11.7	0.0	(11.7)
C	7220	1062518	55.5	(19.4)	-35.0%	32.5	9.4	(14.6)
C	801	1063613	0.3	0.0	7.0%	0.2	0.0	0.0
C	379	1070545	16.0	(8.0)	-50.0%	0.0	0.0	0.0
C	801	1071474	0.4	(0.4)	-100.0%	0.5	0.0	(0.5)
S	1547	1072356	5.6	1.4	25.0%	0.0	6.2	1.6

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Region	Facility Id	Project	DOQ PM10	adj DOQ PM10	adj Percent	PM10 Balance	PM10 Used	adj Surplus PM10
N	1662	1074121	5.9	(0.1)	-1.7%	3.9	0.0	(0.1)
N	1758	1080120	6.6	2.6	39.4%	7.0	0.0	2.8
S	7063	1080272	0.7	(0.7)	-100.0%	0.7	0.0	(0.7)
C	3953	1080386	1.8	(1.8)	-100.0%	0.3	0.0	(0.3)
N	477	1082005	6.0	(6.0)	-100.0%	5.3	0.0	(5.3)
S	1131	1083203	0.4	(0.2)	-50.0%	0.0	0.0	0.0
N	2697	1083490	15.5	0.1	0.6%	16.3	0.0	0.1
S	1246	1083924	0.0	11.0	0.0%	0.0	0.0	0.0
S	33	1084518	4.1	(4.1)	-100.0%	4.1	0.0	(4.1)
S	1114	1084594	0.0	5.4	0.0%	0.0	0.0	0.0
S	2010	1092524	19.2	(19.2)	-100.0%	1.1	0.0	(1.1)
S	1141	1095192	7.7	(5.0)	-64.9%	0.3	0.0	(0.2)
C	7940	1100454	0.7	(0.7)	-100.0%	0.7	0.0	(0.7)
S	1246	1110237	8.8	11.8	134.1%	0.0	0.0	0.0
S	1246	1111824	0.0	0.0	-100.0%	0.0	0.0	0.0
S	1372	1114818	4.3	(4.3)	-100.0%	4.3	0.0	(4.3)
C	8347	1120254	1.2	0.2	16.7%	0.2	0.0	0.0
S	2010	1124301	7.4	(7.4)	-100.0%	2.4	0.0	(2.4)
S	1246	1124502	11.1	0.1	0.9%	9.7	0.0	0.1
S	1624	1130129	0.6	(0.3)	-50.0%	0.0	0.0	0.0
S	8282	1130506	2.3	1.0	43.5%	2.3	0.0	1.0
C	311	1132740	19.7	(17.9)	-90.9%	0.0	0.0	0.0
S	37	1133043	3.5	(3.5)	-100.0%	0.2	0.0	(0.2)
S	33	1134224	2.2	(2.2)	-100.0%	0.0	0.0	0.0

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Region	Facility Id	Project	DOQ PM10	adj DOQ PM10	adj Percent	PM10 Balance	PM10 Used	adj Surplus PM10
S	1372	1140709	1.1	(1.1)	-100.0%	1.1	0.0	(1.1)
S	382	1140870	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
N	1662	1141107	5.8	0.7	12.1%	0.3	0.0	0.0
S	8282	1142405	0.0	2.8	0.0%	0.0	0.0	0.0
N	645	1142618	0.0	13.9	0.0%	0.0	0.0	0.0
N	1662	1142733	0.3	(0.3)	-100.0%	0.0	0.0	0.0
S	1326	1143842	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
S	1326	1143901	0.3	(0.3)	-100.0%	0.3	0.0	(0.3)
S	3585	1151709	4.2	(4.2)	-100.0%	4.2	0.0	(4.2)
S	1246	1151996	18.7	(18.7)	-100.0%	17.3	0.0	(17.3)
S	1624	1153553	0.1	1.9	1900.0%	0.1	0.0	1.9
S	525	1153671	2.5	(2.5)	-100.0%	2.5	0.0	(2.5)
S	1738	1153753	0.2	0.1	50.0%	0.2	0.0	0.1
S	3636	1160793	6.3	(6.3)	-100.0%	6.0	0.0	(6.0)
S	1547	1162420	0.0	3.8	0.0%	0.0	0.0	0.0
S	37	1163219	0.0	0.3	0.0%	0.0	0.0	0.0
S	8282	1163552	2.1	(0.1)	-4.8%	2.1	0.0	(0.1)
S	37	1170172	0.0	0.9	0.0%	0.0	0.0	0.0
S	37	1170679	0.0	0.3	0.0%	0.0	0.0	0.0
S	1131	1171639	0.7	(0.7)	-100.0%	0.0	0.0	0.0
S	525	1173420	2.9	0.1	3.4%	2.9	0.0	0.1
S	1372	1190962	1.7	(1.7)	-100.0%	1.7	0.0	(1.7)
S	33	1010680	0.7	(0.7)	-100.0%	0.7	0.0	(0.7)
S	1372	1010731	2.2	(2.2)	-100.0%	0.0	0.0	0.0

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Region	Facility Id	Project	DOQ PM10	adj DOQ PM10	adj Percent	PM10 Balance	PM10 Used	adj Surplus PM10
S	3746	1010897	8.4	(8.4)	-100.0%	0.0	0.0	0.0
S	3746	1010898	0.2	(0.2)	-100.0%	0.2	0.0	(0.2)
S	3746	1010899	38.9	(38.9)	-100.0%	0.0	0.0	0.0
S	3746	1010900	76.1	(76.1)	-100.0%	57.8	0.0	(57.8)
S	3746	1010901	2.9	(2.9)	-100.0%	0.0	0.0	0.0
S	3746	1010902	6.1	(6.1)	-100.0%	0.0	0.0	0.0
S	3746	1010903	5.2	(5.2)	-100.0%	0.0	0.0	0.0
S	3746	1010904	2.1	(2.1)	-100.0%	2.3	0.0	(2.3)
S	3746	1010905	7.1	(7.1)	-100.0%	0.4	0.0	(0.4)
N	4304	1011034	3.4	(3.4)	-100.0%	0.0	0.0	0.0
N	1758	1011571	4.9	(4.9)	-100.0%	4.9	0.0	(4.9)
S	3412	1020043	0.2	(0.2)	-100.0%	0.2	0.0	(0.2)
S	1547	1020074	1.5	(1.5)	-100.0%	0.1	0.0	(0.1)

Field Key:

- DOQ PM10 – initial District Offset Quantity used in equivalency system in tons per year
- adj DOQ PM10 – adjustment necessary to initial District Offset Quantity in tons per year; reflected in adjustment to the carry-over balance
- PM10 Balance – value in surplus carry-over balance in tons per year
- PM10 Used – value previously used a surplus value mitigation in past equivalency demonstrations in tons per year
- Adj Surplus PM10 – adjustment necessary to surplus carry-over balance to reflect DOQ adjustments in tons per year

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Adjustments to PM25 Surplus Carry-over:

Region	Facility Id	Project	DOQ PM25	adj DOQ PM25	adj Percent	PM25 Balance	PM25 Used	adj Surplus PM25
C	1380	1011237	2.0	(2.0)	-100.0%	2.2	0.0	(2.2)
C	963	1011331	0.2	(0.2)	-100.0%	0.2	0.0	(0.2)
S	3412	1011383	20.2	(20.2)	-100.0%	16.1	0.0	(16.1)
N	4607	1011408	132.1	(115.3)	-87.3%	132.1	0.0	(115.3)
S	335	1020672	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
S	1246	1020894	0.3	0.2	66.7%	0.2	0.0	0.1
S	2076	1030705	0.3	0.2	66.7%	0.7	0.0	0.5
N	355	1040517	0.0	0.0	8.3%	0.0	0.0	0.0
S	1372	1041721	2.5	(0.6)	-26.0%	2.7	0.0	(0.7)
C	6923	1051449	1.2	(0.3)	-26.5%	1.3	0.0	(0.3)
S	6788	1060449	1.5	(1.5)	-100.0%	1.5	0.0	(1.5)
C	7220	1062518	70.1	(24.5)	-35.0%	37.6	13.1	(17.7)
C	801	1063613	0.0	0.0	7.0%	0.0	0.0	0.0
C	801	1071474	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
C	283	1072627	0.1	(0.1)	-100.0%	0.0	0.0	0.0
N	1662	1074121	5.8	(0.1)	-1.7%	3.8	0.0	(0.1)
N	1758	1080120	0.3	0.1	39.4%	0.3	0.0	0.1
S	7063	1080272	0.5	(0.5)	-100.0%	0.5	0.0	(0.5)
C	3953	1080386	1.4	(1.4)	-100.0%	0.3	0.0	(0.3)
N	477	1082005	0.7	(0.7)	-100.0%	0.7	0.0	(0.7)
N	2697	1083490	1.1	0.0	0.6%	0.8	0.0	0.0
S	33	1084518	4.1	(4.1)	-100.0%	4.1	0.0	(4.1)

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Region	Facility Id	Project	DOQ PM25	adj DOQ PM25	adj Percent	PM25 Balance	PM25 Used	adj Surplus PM25
S	2010	1092524	7.1	(7.1)	-100.0%	0.4	0.0	(0.4)
S	1141	1095192	2.6	(1.7)	-64.9%	0.1	0.0	(0.1)
C	7940	1100454	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
S	1372	1114818	0.5	(0.5)	-100.0%	0.5	0.0	(0.5)
C	8347	1120254	0.2	0.0	16.7%	0.2	0.0	0.0
S	1246	1124502	4.2	0.0	0.9%	4.1	0.0	0.0
S	8282	1130506	0.9	0.4	43.5%	0.9	0.0	0.4
C	311	1132740	0.0	0.0	-90.9%	0.0	0.0	0.0
S	37	1133043	1.3	(1.3)	-100.0%	0.1	0.0	(0.1)
S	1372	1140709	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
S	382	1140870	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
N	1662	1141107	5.3	0.6	12.1%	0.3	0.0	0.0
N	1662	1142733	0.3	(0.3)	-100.0%	0.0	0.0	0.0
S	1326	1143842	0.0	0.0	-100.0%	0.0	0.0	0.0
S	1326	1143901	0.0	0.0	-100.0%	0.0	0.0	0.0
S	3585	1151709	4.1	(4.1)	-100.0%	4.1	0.0	(4.1)
S	1246	1151996	8.2	(8.2)	-100.0%	8.6	0.0	(8.6)
S	1624	1153553	0.1	1.9	1900.0%	0.1	0.0	1.9
S	525	1153671	1.4	(1.4)	-100.0%	1.3	0.0	(1.3)
S	3636	1160793	1.2	(1.2)	-100.0%	0.0	0.0	0.0
S	8282	1163552	2.1	(0.1)	-4.8%	0.0	0.0	0.0
S	1131	1171639	0.7	(0.7)	-100.0%	0.0	0.0	0.0
S	525	1173420	1.9	0.1	3.4%	1.1	0.0	0.0
S	33	1010680	0.7	(0.7)	-100.0%	0.7	0.0	(0.7)

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Region	Facility Id	Project	DOQ PM25	adj DOQ PM25	adj Percent	PM25 Balance	PM25 Used	adj Surplus PM25
S	3746	1010898	0.2	(0.2)	-100.0%	0.2	0.0	(0.2)
S	3746	1010904	2.1	(2.1)	-100.0%	2.3	0.0	(2.3)
N	1758	1011571	0.3	(0.3)	-100.0%	0.3	0.0	(0.3)
S	3412	1020043	0.2	(0.2)	-100.0%	0.2	0.0	(0.2)

Field Key:

- DOQ PM25 – initial District Offset Quantity used in equivalency system in tons per year
- adj DOQ PM25 – adjustment necessary to initial District Offset Quantity in tons per year; reflected in adjustment to the carry-over balance
- PM25 Balance – value in surplus carry-over balance in tons per year
- PM25 Used – value previously used a surplus value mitigation in past equivalency demonstrations in tons per year
- Adj Surplus PM25 – adjustment necessary to surplus carry-over balance to reflect DOQ adjustments in tons per year

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Adjustments to SOx Surplus Carry-over:

Region	Facility Id	Project	DOQ SOx	adj DOQ SOx	adj Percent	SOx Balance	SOx Used	adj Surplus SOx
S	3412	1011383	72.8	(72.8)	-100.0%	(22.8)	101.9	(79.1)
S	1326	1020107	1.2	(1.2)	-100.0%	0.0	0.0	0.0
S	1547	1020136	20.0	(11.8)	-59.0%	11.1	0.0	(6.6)
S	1547	1020249	8.0	(7.8)	-97.5%	0.6	0.0	(0.6)
C	3929	1020868	2.0	0.7	35.0%	2.0	0.0	0.7
S	1547	1020978	2.0	(2.0)	-100.0%	2.2	0.0	(2.2)
S	1548	1020996	25.1	0.2	0.8%	0.2	16.9	0.1
N	4940	1030648	6.0	(6.0)	-100.0%	6.7	0.0	(6.7)
S	2234	1040458	13.1	(13.1)	-100.0%	0.0	0.0	0.0
C	603	1043492	19.2	25.8	134.4%	19.2	0.0	25.8
C	6923	1051449	79.9	(39.9)	-49.9%	48.2	0.0	(24.1)
S	3636	1052027	41.0	(41.0)	-100.0%	45.1	0.0	(45.1)
N	2052	1052210	0.0	18.2	0.0%	0.0	0.0	0.0
S	1548	1054675	0.1	(0.1)	-100.0%	0.1	0.0	(0.1)
C	7126	1060669	20.0	(20.0)	-100.0%	0.0	0.0	0.0
C	5203	1060791	7.8	(7.8)	-100.0%	0.0	0.0	0.0
S	33	1061149	25.8	(25.8)	-100.0%	28.7	0.0	(28.7)
N	7402	1061932	7.6	(7.6)	-100.0%	8.3	0.0	(8.3)
C	7220	1062518	6.2	56.1	904.8%	6.5	0.0	58.8
S	382	1062781	0.4	(0.2)	-50.0%	0.2	0.0	(0.1)
S	6900	1063256	12.2	(12.2)	-100.0%	0.7	0.0	(0.7)
S	2234	1063316	0.5	(0.1)	-20.0%	0.6	0.0	(0.1)

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C	7286	1063535	28.6	(13.9)	-48.6%	16.3	0.0	(7.9)
S	2234	1064023	1.5	(0.2)	-13.3%	0.1	0.0	0.0
C	4312	1070027	20.1	(20.1)	-100.0%	0.0	0.0	0.0
C	5719	1070348	17.7	(17.7)	-100.0%	18.2	0.0	(18.2)
C	705	1071722	3.1	(1.5)	-48.4%	3.1	0.0	(1.5)
S	1547	1072356	34.9	(5.3)	-15.2%	31.4	0.0	(4.8)
S	1141	1074702	46.3	(5.4)	-11.7%	0.0	0.0	0.0
S	1141	1080278	124.8	(124.8)	-100.0%	2.1	0.0	(2.1)
C	3953	1080386	193.5	(193.5)	-100.0%	0.3	0.0	(0.3)
S	1372	1081413	1.7	(0.1)	-5.9%	0.0	0.0	0.0
S	3585	1082865	0.0	0.3	0.0%	0.0	0.0	0.0
S	1372	1082885	3.2	(1.6)	-50.0%	0.1	0.0	(0.1)
S	1131	1083203	0.2	(0.1)	-50.0%	0.0	0.0	0.0
N	2697	1083490	75.0	(25.3)	-33.7%	20.1	0.0	(6.8)
N	3233	1083510	53.5	(30.8)	-57.6%	22.4	0.0	(12.9)
S	1246	1083924	15.2	(11.1)	-73.0%	15.2	0.0	(11.1)
S	1547	1084210	59.7	(6.4)	-10.7%	0.0	0.0	0.0
S	1135	1084419	15.2	(15.2)	-100.0%	0.6	0.0	(0.6)
S	1128	1084509	0.0	3.2	0.0%	0.0	0.0	0.0
S	33	1084518	3.1	(3.1)	-100.0%	3.1	0.0	(3.1)
S	1114	1084594	7.7	(5.7)	-74.0%	7.7	0.0	(5.7)
S	1216	1084991	1.0	(1.0)	-100.0%	0.1	0.0	(0.1)
S	1216	1085106	0.4	(0.4)	-100.0%	0.0	0.0	0.0
S	548	1085134	1.2	2.1	175.0%	0.1	0.0	0.2

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S	3585	1092704	4.7	(0.5)	-10.6%	4.7	0.0	(0.5)
S	7616	1093741	274.0	(274.0)	-100.0%	93.3	0.0	(93.3)
S	4073	1093857	4.0	(4.0)	-100.0%	1.0	0.0	(1.0)
S	1246	1093864	25.6	(0.1)	-0.4%	24.4	0.0	(0.1)
S	37	1094422	2.0	(2.0)	-100.0%	0.0	0.0	0.0
S	1128	1095193	1.4	(0.6)	-42.9%	0.0	0.0	0.0
S	37	1100705	2.0	(2.0)	-100.0%	0.0	0.0	0.0
S	2234	1103628	15.0	0.3	2.0%	16.7	0.0	0.3
S	3636	1103990	23.0	(23.0)	-100.0%	0.0	0.0	0.0
S	7857	1104195	26.5	(26.5)	-100.0%	29.4	0.0	(29.4)
S	1246	1110237	0.0	12.0	0.0%	0.0	0.0	0.0
S	1327	1110750	3.3	(3.3)	-100.0%	1.0	0.0	(1.0)
S	7063	1111009	8.0	(8.0)	-100.0%	0.4	0.0	(0.4)
S	1246	1111128	22.3	(5.5)	-24.7%	22.3	0.0	(5.5)
S	1246	1111129	14.0	(8.4)	-60.0%	3.9	1.9	(3.5)
S	1246	1111824	21.7	0.2	0.9%	13.0	5.3	0.2
S	1246	1111901	22.4	(11.2)	-50.0%	18.7	3.7	(11.2)
S	1246	1111928	16.7	(10.2)	-61.1%	10.5	2.5	(7.9)
S	1547	1113576	120.9	(120.9)	-100.0%	134.3	0.0	(134.3)
S	1327	1114449	7.4	(7.4)	-100.0%	0.4	0.0	(0.4)
S	1327	1114465	4.1	(4.1)	-100.0%	0.2	0.0	(0.2)
S	1372	1114818	5.4	(0.5)	-9.3%	5.4	0.0	(0.5)
S	1326	1120405	10.1	(5.3)	-52.5%	0.5	0.0	(0.3)
S	7616	1121903	182.0	(182.0)	-100.0%	26.8	0.0	(26.8)

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S	1327	1123645	24.5	(13.7)	-55.9%	3.0	0.0	(1.7)
S	1703	1124232	2.2	1.2	54.5%	2.2	0.0	1.2
S	2010	1124301	35.4	(35.4)	-100.0%	0.0	0.0	0.0
S	1246	1124502	9.2	0.4	4.3%	9.2	0.0	0.4
S	1624	1130129	4.0	(0.4)	-10.0%	0.2	0.0	0.0
C	311	1132740	17.5	(15.9)	-90.9%	0.0	0.0	0.0
S	37	1133043	1.5	(1.5)	-100.0%	0.0	0.0	0.0
S	1738	1133220	0.1	(0.1)	-100.0%	0.0	0.0	0.0
S	8282	1133536	0.8	(0.1)	-12.5%	0.8	0.0	(0.1)
S	33	1134224	3.9	(3.9)	-100.0%	3.9	0.0	(3.9)
S	382	1134253	5.8	(5.8)	-100.0%	0.2	0.0	(0.2)
S	1131	1140568	12.5	(8.1)	-64.8%	0.8	0.0	(0.5)
C	311	1140728	23.7	(20.3)	-85.7%	0.0	0.0	0.0
S	382	1141820	1.2	(0.9)	-75.0%	1.2	0.0	(0.9)
S	1246	1142135	5.0	0.6	12.0%	2.9	0.0	0.3
S	8282	1142405	4.9	(4.2)	-85.7%	0.0	0.0	0.0
S	1738	1143395	4.3	0.1	2.3%	0.0	0.0	0.0
S	1326	1143483	16.3	(6.5)	-39.9%	0.0	0.0	0.0
S	1114	1143503	0.0	0.2	0.0%	0.0	0.0	0.0
S	1326	1143842	0.2	(0.2)	-100.0%	0.2	0.0	(0.2)
S	1326	1143901	0.5	(0.5)	-100.0%	0.6	0.0	(0.6)
S	1203	1144293	0.8	1.1	137.5%	0.9	0.0	1.2
S	1128	1144548	27.0	(27.0)	-100.0%	1.5	0.0	(1.5)
S	1547	1151973	0.0	20.6	0.0%	0.0	0.0	0.0

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S	1246	1151996	14.4	1.3	9.0%	0.6	0.0	0.1
S	1246	1151997	0.0	15.7	0.0%	0.0	0.0	0.0
S	525	1153671	5.4	(5.4)	-100.0%	5.4	0.0	(5.4)
S	3636	1160793	2.6	(2.6)	-100.0%	0.3	0.0	(0.3)
S	37	1162746	0.0	0.2	0.0%	0.0	0.0	0.0
C	535	1170082	6.6	(0.1)	-1.5%	0.0	0.0	0.0
S	37	1170172	0.0	0.3	0.0%	0.0	0.0	0.0
S	1624	1171635	0.0	0.4	0.0%	0.0	0.0	0.0
S	1131	1171639	0.7	(0.6)	-85.7%	0.0	0.0	0.0
C	1121	1181109	1.8	0.3	16.7%	0.0	0.0	0.0
S	1372	1190962	1.5	(1.5)	-100.0%	0.5	0.0	(0.5)
S	3746	1010906	28.5	(28.5)	-100.0%	0.0	0.0	0.0
C	3696	1011088	7.8	(7.8)	-100.0%	2.4	0.0	(2.4)
C	3696	1011089	44.1	(44.1)	-100.0%	44.1	0.0	(44.1)
N	4238	1020215	20.6	(20.6)	-100.0%	22.9	0.0	(22.9)
S	1109	1020534	15.5	(15.5)	-100.0%	0.1	0.0	(0.1)
S	1109	1020535	5.7	(5.7)	-100.0%	0.3	0.0	(0.3)

Field Key:

- DOQ SOx – initial District Offset Quantity used in equivalency system in tons per year
- adj DOQ SOx – adjustment necessary to initial District Offset Quantity in tons per year; reflected in adjustment to the carry-over balance
- SOx Balance – value in surplus carry-over balance in tons per year
- SOx Used – value previously used a surplus value mitigation in past equivalency demonstrations in tons per year
- Adj Surplus SOx – adjustment necessary to surplus carry-over balance to reflect DOQ adjustments in tons per year

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Appendix E

Offset Equivalency Report Summary Tables Glossary

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Offset Quantity Equivalency (Test 1) Summary Table Glossary

- **Number of New Major Sources**
This is the number of NMS projects that were finalized by the District during the report's tracking period. Note that if a project was a NMS for multiple pollutants (i.e. NO_x and VOC), the project will be counted in all pollutant rows for which the source was a NMS and federal offsets were required.
- **Number of Federal Major Modifications**
This is the number of FMM projects that were finalized by the District during the report's tracking period. Note that if a project triggered a FMM for multiple pollutants (i.e. NO_x and VOC), the project will be counted in all pollutant rows that triggered a FMM and federal offsets were required.
- **Offsets Required Under Federal NSR**
This is the amount of offsets required under the federal NSR offsetting program for the FMM and NMS projects finalized by the District during the report's tracking period.
- **Offsets Required Under District NSR**
This is the amount of offsets the District's NSR offsetting program required for ATC projects finalized by the District during the report's tracking period.
- **Current Year Excess or Shortfall**
This value is the difference between the amount of offsets required under District NSR and the amount of offsets required under federal NSR. This value is only a comparison of the offsetting requirements for the FMM and NMS projects finalized by the District during the report's tracking period. If this value is positive, the District's NSR offsetting program required more offsets than what would have been required under federal NSR for FMM and NMS projects finalized during the report's tracking period.
- **Previous Year-End Total Carry-Over Excess or Shortfall**
This value represents the Year-End Total Carry-over Excess or Shortfall from the previous year's offset equivalency report.
- **Year-to-Year Adjustment to Carry-Over Balance**
This value is the total amount of adjustments made by the District following the previous year's offset equivalency report.
- **Year-End Total Carry-Over Excess or Shortfall**
This value is the difference between the total offsets required by the District's NSR offsetting program and the federal NSR offsetting program since the

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start of the offset equivalency system. This value includes the current tracking year's excess or shortfall and any adjustments that were made to the prior year end carry-over balance. If this value is positive, the District's NSR offsetting program has required more offsets than what would have been required under federal NSR since the start of the District's offset equivalency system, and the District has demonstrated equivalency with Test 1.

Surplus Value Equivalency (Test 2) Summary Table Glossary

- **Number of New Major Sources**
This is the number of NMS projects that were finalized by the District during the report's tracking period. Note that if a project was a NMS for multiple pollutants (i.e. NO_x and VOC), the project will be counted in all pollutant rows for which the source was a NMS and federal offsets were required.
- **Number of Federal Major Modifications**
This is the number of FMM projects that were finalized by the District during the report's tracking period. Note that if a project triggered a FMM for multiple pollutants (i.e. NO_x and VOC), the project will be counted in all pollutant rows that triggered a FMM and federal offsets were required.
- **Offsets Required Under Federal NSR**
This is the amount of offsets required under the federal NSR offsetting program for the FMM and NMS projects finalized by the District during the report's tracking period.
- **Surplus Reductions Used for Equivalency This Year**
This is the amount of surplus reductions that were used in this year's equivalency demonstration to mitigate the surplus offsets quantity required under federal NSR for FMM and NMS projects finalized by the District during the report's tracking period. Surplus reductions consist of reductions in the creditable reductions carry-over bank.
- **Current Year Excess or Shortfall**
This value is the difference between the amount of offsets required under federal NSR and the surplus reductions used for equivalency this year. A zero 0.0 value means the District's creditable reduction carry-over bank had more surplus reductions than the amount of offsets required under federal NSR for FMM and NMS projects finalized by the District during the report's tracking period.
- **Previous Year-End Total Carry-Over Creditable Reductions**
This value represents the Year-End Total Carry-over Creditable Reductions from the previous year's offset equivalency report.

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- **Year-to-Year Adjustment to Carry-Over Balance**
This value is the total amount of adjustments made by the District following the previous year's offset equivalency report.
- **Current Year New Creditable Reductions**
This value is the total amount of surplus reductions collected by the District for the current equivalency tracking period.
- **Year-End Total Carry-Over Creditable Reductions**
This value is the difference between the total surplus reductions generated by the District and the amount of offsets required by FMM and NMS projects since the start of the offset equivalency system. This value includes the current year's excess or shortfall and any adjustments that were made to the prior year end carry-over balance. If this value is positive, the District's has generated more surplus reductions than what would have been required under federal NSR since the start of the District's offset equivalency system, and the District has demonstrated equivalency with Test 2.