



U.S. Department
of Transportation

Federal Motor
Carrier Safety
Administration



ITD INNOVATIVE TECHNOLOGY
DEPLOYMENT

ITD State Data Quality Evaluation Results

MAY | 2023

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ITD State Data Quality Evaluation Results

May 2023

This report presents the results of the May 2023 State Data Quality (DQ) evaluation. It also provides background on the purpose, development, and methodology of the State DQ Measures.

ITD DQ Initiative

Data quality is a top priority of the Federal Motor Carrier Safety Administration (FMCSA) and the Innovative Technology Deployment (ITD) Program. The ITD DQ Improvement Initiative was developed by the ITD Support team at the Volpe National Transportation Systems Center (Volpe), in coordination with an ACCB¹ DQ Working Group, to identify and resolve DQ issues. The ITD Support team developed DQ measures, standards, and evaluation methodologies, which were reviewed and accepted by the ACCB. Since June 2015, the ITD Support team has analyzed and reported monthly DQ results to the ITD community. Monthly reports provide DQ ratings generated by:

- The DQ Performance Measures, which rate the quality of IFTA² and IRP³ credential data uploaded by ITD States to SAFER via the T-19 (IFTA Input Transaction) and the T-22 (IRP Registration Input Transaction).
- The DQ Communication Process, which communicates, and monitors correction of, individual State-reported DQ issues.

Purpose and Evolution of the ITD DQ Measures

The purpose of the ITD DQ Performance Measures is not to be punitive, but to highlight data quality issues and prompt States to investigate causes. The measures were designed to address expectations of the ITD Program as well as issues raised by States during program workshops and ACCB meetings; the design was also informed by the DQ Communication Process. Ongoing discussion is encouraged as the measures evolve with the needs of the Program and the ITD community.

See below for a high-level timeline of the development and modification of the ITD DQ Measures. The appendix to this report provides details.



¹ ACCB – ITD Architecture Change Control Board.

² IFTA – International Fuel Tax Association.

³ IRP – International Registration Plan.

Overview of DQ Measures – T-19 (IFTA)

The T-19 DQ Measures rate the quality of IFTA data uploaded by IFTA Commercial Vehicle Information Exchange Window (CVIEW)-certified States to FMCSA’s Safety and Fitness Electronic Records (SAFER). Every month, five individual measures and an overall measure are calculated for each IFTA CVIEW-certified State, and ratings are reported. For each individual measure, a rating of Good, Fair, or Poor is generated and a rating value is assigned; the Overall T-19 rating is calculated from the individual rating values.

Individual Measures – T-19

The T-19 Individual Measures, calculated ratings, and rating values are defined below.

T-19 Measures and Rating Calculations/Values – Effective December 2021

Measure	Standard	Method / Data Source	Calculation/Ratings	Rating Value
1 Timeliness: Upload Frequency	Daily uploads	Compare number of T-19 uploads per month to the frequency standard (number of business days in evaluated month). Calculate the percent of upload frequency achieved compared to standard. Source: Daily Reports, sending States.	M1 = # uploads / # business days Good if M1 % >= 100 Fair if 95 <= M1 % <= 99 Poor if 0 <= M1 % <= 94	Good = 3 Fair = 2 Poor = 1
2 Completeness: Successful Uploads	Minimal error rate	Calculate the percent of received T-19 records that were applied to SAFER (not rejected). Source: Log files, counts of received vs applied.	M2 = # applied / # received, 0, if # received = 0 Good if M2 % = 100 Fair if 95 <= M2 % <= 99 Poor if 0 <= M2 % <= 94	Good = 3 Fair = 2 Poor = 1
3 Accuracy: Last Update Date Currency	Update date must not be older than existing data	Calculate the percent of total T-19 records that were not rejected with the error “Older than existing data.” Source: Log files. Counts of error message “Older than existing data.”	M3 = 100% - (# rejected_error / # received), 0, if # received = 0 Good if M3 % = 100 Fair if 98 <= M3 % <= 99 Poor if 0 <= M3 % <= 97	Good = 3 Fair = 2 Poor = 1
4 Validity: IFTA Exp. Date./ Status	IFTA account exp. date and status must be aligned	Calculate the percent of active T-19 Interstate records (Active account status) that show valid account (exp. date not expired). Source: SAFER database. Query of process time, interstate flag, IFTA exp. date, IFTA status.	M4 = 100% - (# count / # active), 0, if # active = 0 Good if M4 % = 100 Fair if 95 <= M4 % <= 99 Poor if 0 <= M4 % <= 94	Good = 3 Fair = 2 Poor = 1
5 Baseline Frequency	Annual IRP Baseline (minimum)	Source: ITD Support records.	M5 = 2, if exempt M5 = 1, if baseline last 12 mos. M5 = 0, if no baseline last 12 mos.	Good = 3 Poor = 1

Overall Rating – T-19

The T-19 Overall rating is calculated as shown below.

T-19 Overall Rating Calculation – Effective August 2022

Individual T-19 Rating Values	Measure Weights	Overall Rating Calculation	Overall Rating Ranges
Good = 3 Fair = 2 Poor = 1	M1: Timely Uploads = 15% M2: Completeness = 30% M3: Accuracy = 20% M4: Validity = 30% M5: Timely Baselines = 5%	(M1 Rating Value * 15%) + (M2 Rating Value * 30%) + (M3 Rating Value * 20%) + (M4 Rating Value * 30%) + (M5 Rating Value * 5%) If calculated Overall Rating is <1, = 0	Good: 2.7 – 3.0 Fair: 2.3 – 2.6 Poor: ≤2.2

Overall Ratings – T-19 (IFTA)

All ratings are presented in this report as a rolling three months for comparison purposes. For reference, the chart below shows each State’s Core and CVIEW certification status along with its Overall ratings.

State T-19 (IFTA) Overall Ratings March – May 2023

Good: 2.7 – 3.0	Fair: 2.3 – 2.6	Poor: ≤ 2.2
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STATE	Core Certified	IFTA CVIEW Certified	March Overall Rating	April Overall Rating	May Overall Rating
AK*	Yes	Yes	n/a	n/a	n/a
AL	Yes	Yes	2.7	3.0	3.0
AR	Yes	Yes	2.3	2.4	2.4
AZ	Yes	Yes	2.4	2.3	2.2
CA	Yes	Yes	3.0	3.0	3.0
CO	Yes	Yes	2.9	3.0	2.7
CT	Yes	Yes	2.9	2.7	3.0
DC	No	No	n/a	n/a	n/a
DE	Yes	Yes	3.0	3.0	3.0
FL	Yes	Yes	2.4	2.1	2.4
GA	Yes	Yes	2.1	2.4	2.6
HI	No	No	n/a	n/a	n/a
IA	Yes	Yes	3.0	3.0	2.6
ID	Yes	Yes	2.6	2.7	2.6
IL	Yes	Yes	3.0	3.0	2.9
IN	Yes	Yes	2.7	3.0	3.0
KS	Yes	Yes	2.6	2.4	2.6
KY	Yes	Yes	3.0	3.0	3.0
LA	Yes	Yes	2.6	2.6	2.9
MA	Yes	Yes	2.7	2.7	2.6
MD	Yes	Yes	2.9	3.0	3.0
ME	Yes	Yes	3.0	3.0	3.0
MI	Yes	Yes	2.9	3.0	3.0
MN	No	Yes	2.9	3.0	3.0
MO	Yes	Yes	3.0	3.0	3.0
MS	Yes	Yes	3.0	2.9	3.0

STATE	Core Certified	IFTA CVIEW Certified	March Overall Rating	April Overall Rating	May Overall Rating
MT	Yes	Yes	3.0	2.5	3.0
NC	Yes	Yes	2.4	2.4	2.4
ND	No	No	n/a	n/a	n/a
NE	Yes	Yes	3.0	2.7	3.0
NH	Yes	Yes	3.0	3.0	3.0
NJ	Yes	Yes	3.0	3.0	3.0
NM	Yes	Yes	2.4	3.0	2.9
NV	Yes	Yes	3.0	3.0	3.0
NY	Yes	Yes	2.9	2.9	3.0
OH	Yes	Yes	2.5	2.9	3.0
OK	Yes	Yes	3.0	3.0	3.0
OR	Yes	Yes	2.7	2.7	3.0
PA	No	No	n/a	n/a	n/a
RI	Yes	Yes	3.0	3.0	3.0
SC	Yes	Yes	3.0	3.0	3.0
SD	Yes	Yes	3.0	3.0	3.0
TN	Yes	Yes	3.0	3.0	3.0
TX	Yes	Yes	3.0	3.0	3.0
UT	Yes	Yes	2.7	3.0	3.0
VA	Yes	Yes	3.0	3.0	3.0
VT	Yes	Yes	2.5	3.0	3.0
WA	Yes	Yes	2.7	3.0	3.0
WI	Yes	Yes	2.6	3.0	3.0
WV	Yes	Yes	3.0	3.0	3.0
WY	Yes	Yes	2.6	3.0	2.7

*AK is CVIEW Certified but exempt from IFTA uploading.
n/a = Not CVIEW Certified or Insufficient Data.

National Counts of T-19 Overall Rating Ranges March – May 2023

March Overall Rating	IFTA CVIEW Certified	April Overall Rating	IFTA CVIEW Certified	May Overall Rating	IFTA CVIEW Certified
Good	33	Good	38	Good	37
Fair	12	Fair	7	Fair	8
Poor	1	Poor	1	Poor	1
Total	46	Total	46	Total	46

Note: The CVIEW-certified totals in this table might not equal the total count of CVIEW-certified States due to insufficient data for calculating an Overall rating in any month.

Individual Ratings by State – T-19 (IFTA)

M1 Timeliness: Upload Frequency – T-19

Standard: Daily uploads.

- Upload frequency equals or exceeds number of business days in the evaluated month.
- **Frequency Standard = 22:** May had 23 weekdays, 1 Federal holiday, and no SAFER down days.

Methodology: Compare the number of uploads to the frequency standard; calculate the percent of the frequency standard achieved by the State.

Source: Daily Reports, 5/1/2023 – 5/31/2023.

Rating Ranges:

- Good: ≥ 100%
- Fair: 95% – 99%
- Poor: ≤ 94%

M1 Timeliness: Upload Frequency – T-19 State Ratings March – May 2023

Good: ≥ 100%	Fair: 95 - 99%	Poor: ≤ 94%
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STATE	IFTA CVIEW Certified	March Uploads % of Standard	April Uploads % of Standard	May Uploads % of Standard
AK*	Yes	n/a	n/a	n/a
AL	Yes	130	145	132
AR	Yes	96	125	114
AZ	Yes	109	115	95
CA	Yes	135	150	136
CO	Yes	96	105	86
CT	Yes	96	75	100
DC	No	n/a	n/a	n/a
DE	Yes	113	150	123
FL	Yes	100	90	100
GA	Yes	78	70	95
HI	No	n/a	n/a	n/a
IA	Yes	109	105	95
ID	Yes	96	100	95
IL	Yes	100	100	95
IN	Yes	117	110	118
KS	Yes	96	75	95
KY	Yes	135	140	141
LA	Yes	74	50	136
MA	Yes	100	105	95
MD	Yes	135	140	114
ME	Yes	100	150	123
MI	Yes	135	140	141
MN	Yes	96	100	105
MO	Yes	130	130	109
MS	Yes	100	95	100

STATE	IFTA CVIEW Certified	March Uploads % of Standard	April Uploads % of Standard	May Uploads % of Standard
MT	Yes	135	140	136
NC	Yes	135	150	136
ND	No	n/a	n/a	n/a
NE	Yes	104	90	100
NH	Yes	126	135	127
NJ	Yes	126	145	136
NM	Yes	100	100	95
NV	Yes	117	145	136
NY	Yes	96	95	105
OH	Yes	100	95	100
OK	Yes	104	115	105
OR	Yes	100	120	109
PA	No	n/a	n/a	n/a
RI	Yes	135	145	141
SC	Yes	117	140	123
SD	Yes	135	150	141
TN	Yes	130	150	141
TX	Yes	100	100	105
UT	Yes	91	100	100
VA	Yes	126	150	141
VT	Yes	96	100	100
WA	Yes	104	100	105
WI	Yes	96	100	105
WV	Yes	135	145	141
WY	Yes	96	100	59

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

* AK is CVIEW Certified but exempt from IFTA uploading.

M2 Completeness: Successful Uploads – T-19

Standard: Minimal error rate.

Methodology: Calculate the percent of received T-19 records that were applied to SAFER (not rejected).

Source: Error logs, 5/1/2023 – 5/31/2023.

Rating Ranges:

- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M2 Completeness: Successful Uploads – T-19 State Ratings March – May 2023

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%
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STATE	IFTA CVIEW Certified	March % Successful Uploads	April % Successful Uploads	May % Successful Uploads
AK*	Yes	n/a	n/a	n/a
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	100	100	100
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	No	n/a	n/a	n/a
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	99
ID	Yes	100	100	100
IL	Yes	100	100	100
IN	Yes	100	100	100
KS	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100
MT	Yes	100	99	100

STATE	IFTA CVIEW Certified	March % Successful Uploads	April % Successful Uploads	May % Successful Uploads
NC	Yes	100	100	100
ND	No	n/a	n/a	n/a
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	100	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	99	100	100
OK	Yes	100	100	100
OR	Yes	99	99	100
PA	No	n/a	n/a	n/a
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	100
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

* AK is CVIEW Certified but exempt from IFTA uploading.

M3 Accuracy: Last Update Date Currency – T-19

Standard: Update date must not be older than existing data.

Methodology: Calculate the percent of total T-19 records that were not rejected with the error “Older than existing data.”

Source: Error logs, 5/1/2023 – 5/31/2023.

Rating Ranges:

- Good: 100%
- Fair: 98 – 99%
- Poor: ≤ 97%

M3 Accuracy: Last Update Date Currency – T-19 State Ratings March – May 2023

Good: 100%	Fair: 98 - 99%	Poor: ≤ 97%
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STATE	IFTA CVIEW Certified	March % Current	April % Current	May % Current
AK*	Yes	n/a	n/a	n/a
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	100	100	100
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	No	n/a	n/a	n/a
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	100	100	100
IL	Yes	100	100	100
IN	Yes	100	100	100
KS	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100
MT	Yes	100	99	100

STATE	IFTA CVIEW Certified	March % Current	April % Current	May % Current
NC	Yes	100	100	100
ND	No	n/a	n/a	n/a
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	100	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	99	100	100
OK	Yes	100	100	100
OR	Yes	100	100	100
PA	No	n/a	n/a	n/a
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	100
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

WS = FL uses web service.

* AK is CVIEW Certified but exempt from IFTA uploading.

M4 Validity: IFTA Account and Status – T-19

Standard: IFTA account validity and IFTA status must be aligned.

Methodology: Calculate the percent of active T-19 Interstate records (IFTA status of Active) that show a valid IFTA account.

Source: SAFER, 6/6/2023. (Query of carrier IFTA status code, account number, and expiration date.)

Rating Ranges:

- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M4 Validity: IFTA Account and Status – T-19 State Ratings March – May 2023

Note: As of the **April 2018** evaluation, the T-19 M4 measure allows for a 60-day grace period, which is the IFTA standard; previously, this measure allowed for a 30-day grace period.

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%
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STATE	IFTA CVIEW Certified	March % Aligned	April % Aligned	May % Aligned
AK ¹	Yes	n/a	n/a	n/a
AL	Yes	99	100	100
AR	Yes	85	90	90
AZ	Yes	71	73	75
CA ²	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	No	n/a	n/a	n/a
DE	Yes	100	100	100
FL	Yes	87	88	88
GA	Yes	93	95	96
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	99	99	99
IL	Yes	100	100	100
IN	Yes	98	100	100
KS	Yes	95	99	99
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	95	97	98
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100

STATE	IFTA CVIEW Certified	March % Aligned	April % Aligned	May % Aligned
MT	Yes	100	100	100
NC ²	Yes	48	48	48
ND	No	n/a	n/a	n/a
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	94	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	100	100
PA	No	n/a	n/a	n/a
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	98	100	100
WA	Yes	99	100	100
WI	Yes	99	100	100
WV	Yes	100	100	100
WY	Yes	99	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

¹AK is CVIEW Certified but exempt from IFTA uploading.

² CA and NC IFTA data is sent directly from IFTA clearinghouse.

M5 Timeliness: IFTA Baseline Frequency – T-19

Standard: Annual IFTA baseline (minimum).

Source: ITD Support records.

Rating Ranges:

- **Good:** State conducted an IFTA baseline at least once in the past 12 months.
- **Poor:** State did not conduct a baseline at least once in the past 12 months.

State	June	July	August
AL			DUE
AR		DUE	
MA		DUE	
WA			DUE

M5 Timeliness: IFTA Baseline Frequency – T-19 State Ratings March – May 2023

Good: Baseline in Last 12 Months	Poor: No Baseline in Last 12 Months	Good: Baseline Due Soon
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State	IFTA CVIEW Certified	March Rating	April Rating	May Rating
AK ¹	Yes	n/a	n/a	n/a
AL	Yes	Good	Good	Good
AR	Yes	Good	Good	Good
AZ	Yes	Good	Poor	Poor
CA ²	Yes	Good	Good	Good
CO	Yes	Good	Good	Good
CT	Yes	Good	Good	Good
DC	No	n/a	n/a	n/a
DE	Yes	Good	Good	Good
FL ²	Yes	Good	Good	Good
GA	Yes	Good	Good	Good
HI	No	n/a	n/a	n/a
IA	Yes	Good	Good	Good
ID	Yes	Good	Good	Good
IL	Yes	Good	Good	Good
IN	Yes	Good	Good	Good
KS	Yes	Good	Good	Good
KY	Yes	Good	Good	Good
LA	Yes	Poor	Poor	Poor
MA	Yes	Good	Good	Good
MD	Yes	Poor	Good	Good
ME	Yes	Good	Good	Good
MI	Yes	Poor	Good	Good
MN	Yes	Good	Good	Good
MO	Yes	Good	Good	Good
MS	Yes	Good	Good	Good

State	IFTA CVIEW Certified	March Rating	April Rating	May Rating
MT	Yes	Good	Good	Good
NC ²	Yes	Good	Good	Good
ND	No	n/a	n/a	n/a
NE	Yes	Good	Good	Good
NH	Yes	Good	Good	Good
NJ	Yes	Good	Good	Good
NM	Yes	Good	Good	Good
NV	Yes	Good	Good	Good
NY	Yes	Good	Good	Good
OH	Yes	Good	Good	Good
OK	Yes	Good	Good	Good
OR	Yes	Good	Good	Good
PA	No	n/a	n/a	n/a
RI	Yes	Good	Good	Good
SC	Yes	Good	Good	Good
SD	Yes	Good	Good	Good
TN	Yes	Good	Good	Good
TX	Yes	Good	Good	Good
UT	Yes	Good	Good	Good
VA	Yes	Good	Good	Good
VT	Yes	Poor	Good	Good
WA	Yes	Good	Good	Good
WI	Yes	Good	Good	Good
WV	Yes	Good	Good	Good
WY	Yes	Good	Good	Good

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

¹AK is CVIEW Certified but exempt from IFTA uploading.

²CA, FL, and NC are exempt from baselining so receive credit for purposes of calculating the Overall rating.

Overview of DQ Measures – T-22 (IRP)

The T-22 DQ Measures rate the quality of IRP data uploaded by IRP CVIEW-certified States to SAFER. Every month, five individual measures and an overall measure are calculated for each IRP CVIEW-certified State, and ratings are reported. For each individual measure, a rating of Good, Fair, or Poor is generated and a rating value is assigned; the Overall rating is calculated from individual rating values.

Individual Measures – T-22

The T-22 Individual Measures, calculated ratings, and rating values are defined below.

ITD Data Quality Measures – T-22 (IRP) – Effective April 2020

Measure	Standard	Method / Data Source	Calculation/Ratings	Rating Value
1 Timeliness: Upload Frequency	Daily uploads	Compare number of T-22 uploads per month to the frequency standard (number of business days in evaluated month). Calculate the percent of upload frequency achieved compared to standard. Source: Daily Reports, sending States.	$M1 = \# \text{ uploads} / \# \text{ business days}$ Good if $M1 \% \geq 100$ Fair if $95 \leq M1 \% \leq 99$ Poor if $0 \leq M1 \% \leq 94$	Good = 3 Fair = 2 Poor = 1
2 Completeness: Successful Uploads	Minimal error rate	Calculate the percent of received T-22 records that were applied to SAFER (not rejected). Source: Log files, counts of received vs applied.	$M2 = \# \text{ applied} / \# \text{ received}, 0, \text{ if } \# \text{ received} = 0$ Good if $M2 \% = 100$ Fair if $95 \leq M2 \% \leq 99$ Poor if $0 \leq M2 \% \leq 94$	Good = 3 Fair = 2 Poor = 1
3 Accuracy: Last Update Date Currency	Update date must not be older than existing data	Calculate the percent of total T-22 records that were not rejected with the error "Older than existing data." Source: Log files. Counts of error message "Older than existing data."	$M3 = 100\% - (\# \text{ rejected_error} / \# \text{ received}), 0, \text{ if } \# \text{ received} = 0$ Good if $M3 \% = 100$ Fair if $98 \leq M3 \% \leq 99$ Poor if $0 \leq M3 \% \leq 97$	Good = 3 Fair = 2 Poor = 1 0, else
4 Validity: Vehicle Reg./IRP Status	Vehicle reg. status and IRP status must be aligned	Calculate the percent of active T-22 Interstate records (Active IRP status) that show valid vehicle registration. Source: SAFER database. Query of process time, interstate flag, reg. status, IRP status.	$M4 = 100\% - (\# \text{ count} / \# \text{ active}), 0, \text{ if } \# \text{ active} = 0$ Good if $M4 \% = 100$ Fair if $95 \leq M4 \% \leq 99$ Poor if $0 \leq M4 \% \leq 94$	Good = 3 Fair = 2 Poor = 1
5 Baseline Frequency	Annual IRP Baseline (minimum)	Source: ITD Support records.	$M5 = 2, \text{ if exempt}$ $M5 = 1, \text{ if baseline in last 12 mos.}$ $M5 = 0, \text{ if no baseline in last 12 mos.}$ Good if $M5 = 1 \text{ or } 2$ Poor if $M5 = 0$	Good = 3 Poor = 1

Overall Measure – T-22

The T-22 Overall rating is calculated as shown below.

T-22 Overall Rating Calculation – Effective August 2022

Individual T-22 Rating Values	Measure Weights	Overall Rating Calculation	Overall Rating Ranges
Good = 3 Fair = 2 Poor = 1	M1: Timely Uploads = 15% M2: Completeness = 30% M3: Accuracy = 20% M4: Validity = 30% M5: Timely Baselines = 5%	$(M1 \text{ Rating Value} * 15\%)$ $+ (M2 \text{ Rating Value} * 30\%)$ $+ (M3 \text{ Rating Value} * 20\%)$ $+ (M4 \text{ Rating Value} * 30\%)$ $+ (M5 \text{ Rating Value} * 5\%)$ If calculated Overall Rating is $<1, = 0$	Good: 2.7 – 3.0 Fair: 2.3 – 2.6 Poor: ≤ 2.2

Overall Ratings – T-22 (IRP)

All ratings are presented in this report as a rolling three months for comparison purposes. For reference, the chart below shows each State's Core and CVIEW certification status, along with its Overall ratings.

State T-22 (IRP) Overall Ratings March – May 2023

Note: Some declining 2023 ratings could be related to State staff focus on the required transition to the IRP Data Repository.

Good: 2.7 – 3.0	Fair: 2.3 – 2.6	Poor: ≤ 2.2
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STATE	Core Certified	IRP CVIEW Certified	March Overall Rating	April Overall Rating	May Overall Rating
AK	Yes	Yes	2.7	2.7	2.7
AL	Yes	Yes	2.4	2.5	3.0
AR	Yes	Yes	2.7	2.5	3.0
AZ	Yes	Yes	2.2	2.7	2.7
CA	Yes	Yes	3.0	3.0	3.0
CO	Yes	Yes	3.0	3.0	3.0
CT	Yes	Yes	3.0	3.0	3.0
DC	No	Yes	n/a	n/a	n/a
DE	Yes	Yes	2.7	2.7	2.7
FL	Yes	Yes	2.4	2.4	2.4
GA	Yes	Yes	2.7	2.7	2.7
HI	No	No	n/a	n/a	n/a
IA	Yes	Yes	2.7	3.0	2.7
ID	Yes	Yes	3.0	3.0	3.0
IL	Yes	Yes	3.0	2.3	2.0
IN	Yes	Yes	3.0	3.0	3.0
KS	Yes	Yes	2.7	2.0	3.0
KY	Yes	Yes	3.0	2.7	3.0
LA	Yes	Yes	2.7	2.7	2.7
MA	Yes	Yes	3.0	3.0	3.0
MD	Yes	Yes	2.7	2.7	2.4
ME	Yes	Yes	3.0	3.0	2.7
MI	Yes	Yes	2.6	3.0	3.0
MN	No	Yes	3.0	3.0	3.0
MO	Yes	Yes	3.0	2.4	3.0
MS	Yes	Yes	3.0	3.0	3.0

STATE	Core Certified	IRP CVIEW Certified	March Overall Rating	April Overall Rating	May Overall Rating
MT	Yes	Yes	3.0	3.0	3.0
NC	Yes	Yes	2.9	2.9	2.9
ND	No	Yes	2.4	2.4	2.4
NE	Yes	Yes	3.0	3.0	3.0
NH	Yes	Yes	3.0	3.0	2.7
NJ	Yes	Yes	3.0	2.7	2.7
NM	Yes	Yes	2.7	2.7	2.7
NV	Yes	Yes	2.4	2.7	2.4
NY	Yes	Yes	3.0	3.0	3.0
OH	Yes	Yes	3.0	3.0	3.0
OK	Yes	Yes	2.7	2.7	3.0
OR	Yes	Yes	3.0	2.7	3.0
PA	No	Yes	2.9	2.9	2.9
RI	Yes	Yes	3.0	3.0	3.0
SC	Yes	Yes	2.7	2.4	3.0
SD	Yes	Yes	3.0	2.7	2.7
TN	Yes	Yes	3.0	3.0	3.0
TX	Yes	Yes	3.0	3.0	3.0
UT	Yes	Yes	3.0	2.7	2.7
VA	Yes	Yes	3.0	3.0	2.7
VT	Yes	Yes	2.6	3.0	3.0
WA	Yes	Yes	3.0	3.0	3.0
WI	Yes	Yes	2.9	2.1	2.1
WV	Yes	Yes	3.0	3.0	3.0
WY	Yes	Yes	2.7	3.0	2.9

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

National Counts of T-22 Overall Rating Ranges March – May 2023

March Overall Ratings	IRP CVIEW Certified	April Overall Ratings	IRP CVIEW Certified	May Overall Ratings	IRP CVIEW Certified
Good	42	Good	40	Good	43
Fair	6	Fair	7	Fair	4
Poor	1	Poor	2	Poor	2
Total	49	Total	49	Total	49

Note: The CVIEW-certified totals in this table might not equal the total number of CVIEW-certified States due to insufficient data for calculating an Overall rating in any month.

Individual Ratings by State – T-22 (IRP)

M1 Timeliness: Upload Frequency – T-22

Standard: Daily uploads.

- Upload frequency equals or exceeds number of business days in the evaluated month.
- **Frequency Standard = 22:** May had 23 weekdays, 1 Federal holiday, and no SAFER down days.

Methodology: Compare the number of uploads to the frequency standard; calculate the percent of the frequency standard achieved by the State.

Source: Daily Reports, 5/1/2023 – 5/31/2023.

Rating Ranges:

- Good: ≥ 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M1 Timeliness: Upload Frequency – T-22 State Ratings March – May 2023

Good: ≥ 100%	Fair: 95 - 99%	Poor: ≤ 94%
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STATE	IRP CVIEW Certified	March Uploads % of Stnd.	April Uploads % of Stnd.	May Uploads % of Stnd.
AK	Yes	113	140	132
AL	Yes	130	145	136
AR	Yes	122	135	127
AZ	Yes	135	140	136
CA	Yes	126	150	136
CO	Yes	122	125	114
CT	Yes	117	135	123
DC	Yes	n/a	n/a	n/a
DE	Yes	122	120	114
FL	Yes	135	145	136
GA	Yes	135	125	132
HI	No	n/a	n/a	n/a
IA	Yes	135	140	123
ID	Yes	117	140	118
IL	Yes	126	140	132
IN	Yes	130	140	136
KS	Yes	126	135	123
KY	Yes	135	150	136
LA	Yes	113	100	100
MA	Yes	122	130	114
MD	Yes	122	135	123
ME	Yes	122	130	118
MI	Yes	117	140	132
MN	Yes	126	125	123
MO	Yes	135	145	132
MS	Yes	117	125	123

Note: Some States upload on weekends/holidays.

STATE	IRP CVIEW Certified	March Uploads % of Stnd.	April Uploads % of Stnd.	May Uploads % of Stnd.
MT	Yes	113	130	109
NC	Yes	135	150	136
ND	Yes	135	150	123
NE	Yes	135	150	132
NH	Yes	117	140	114
NJ	Yes	135	150	132
NM	Yes	104	110	100
NV	Yes	122	130	132
NY	Yes	130	145	127
OH	Yes	130	145	136
OK	Yes	117	130	109
OR	Yes	135	145	132
PA	Yes	135	145	123
RI	Yes	130	135	127
SC	Yes	113	130	123
SD	Yes	135	150	136
TN	Yes	130	150	132
TX	Yes	135	150	136
UT	Yes	122	140	114
VA	Yes	130	150	136
VT	Yes	100	100	109
WA	Yes	126	125	123
WI	Yes	96	85	86
WV	Yes	113	110	100
WY	Yes	87	115	95

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

M2 Completeness: Successful Uploads – T-22

Standard: Minimal error rate.

Methodology: Calculate the percent of received T-22 records that were applied to SAFER (not rejected).

Source: Error logs, 5/1/2023 – 5/31/2023.

Rating Ranges:

- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M2 Completeness: Successful Uploads – T-22 State Ratings March – May 2023

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%
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STATE	IRP CVIEW Certified	March % Successful Uploads	April % Successful Uploads	May % Successful Uploads
AK	Yes	100	100	100
AL	Yes	100	99	100
AR	Yes	100	99	100
AZ	Yes	99	100	100
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	Yes	100	100	100
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	100	100	100
IL	Yes	100	100	99
IN	Yes	100	100	100
KS	Yes	97	94	100
KY	Yes	100	99	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	99
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100

STATE	IRP CVIEW Certified	March % Successful Uploads	April % Successful Uploads	May % Successful Uploads
MT	Yes	100	100	100
NC	Yes	100	100	100
ND	Yes	100	100	100
NE	Yes	100	100	100
NH	Yes	100	100	99
NJ	Yes	100	100	100
NM	Yes	99	99	100
NV	Yes	98	100	97
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	99	100
PA	Yes	100	100	100
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	99	95
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	100
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

M3 Accuracy: Last Update Date Currency – T-22

Standard: Update date must not be older than existing data.

Methodology: Calculate the percent of total T-22 records in SAFER that were not rejected with the error “Older than existing data.”

Source: Error logs, 5/1/2023 – 5/31/2023.

Rating Ranges:

- Good: 100%
- Fair: 98 – 99%
- Poor: ≤ 97%

M3 Accuracy: Last Update Date Currency – T-22 State Ratings March – May 2023

Good: 100%	Fair: 98 - 99%	Poor: ≤ 97%
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State	IRP CVIEW Certified	March % Current	April % Current	May % Current
AK	Yes	100	100	100
AL	Yes	100	99	100
AR	Yes	100	99	100
AZ	Yes	99	100	100
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	Yes	100	100	100
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	100	100	100
IL	Yes	100	100	100
IN	Yes	100	100	100
KS	Yes	100	96	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100

State	IRP CVIEW Certified	March % Current	April % Current	May % Current
MT	Yes	100	100	100
NC	Yes	100	100	100
ND	Yes	100	100	100
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	100	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	100	100
PA	Yes	100	100	100
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	100
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

M4 Validity: Vehicle Registration Status – T-22

Standard: Vehicle registration status and IRP status must be aligned.

Methodology: Calculate the percent of active T-22 Interstate records (IRP status of Active) that show valid vehicle registration.

Source: SAFER, 6/6/2023. (Query of process time, interstate flag, registration status, IRP status.)

Rating Ranges:

- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M4 Validity: Vehicle Registration Status – T-22 State Ratings March – May 2023

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%
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State	IRP CVIEW Certified	March % Aligned	April % Aligned	May % Aligned
AK	Yes	99	99	99
AL	Yes	94	100	100
AR	Yes	99	100	100
AZ	Yes	97	96	96
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	Yes	100	100	100
DE	Yes	99	99	99
FL	Yes	66	66	65
GA	Yes	97	99	99
HI	No	n/a	n/a	n/a
IA	Yes	95	100	99
ID	Yes	100	100	100
IL	Yes	100	83	84
IN	Yes	100	100	100
KS ¹	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	99	98	97
MA	Yes	100	100	100
MD	Yes	99	99	92
ME	Yes	100	100	100
MI	Yes	99	100	100
MN	Yes	100	100	100
MO	Yes	100	82	100
MS	Yes	100	100	100

State	IRP CVIEW Certified	March % Aligned	April % Aligned	May % Aligned
MT	Yes	100	100	100
NC	Yes	100	100	100
ND	Yes	69	55	72
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	99	97
NM	Yes	100	100	99
NV	Yes	99	99	99
NY	Yes	100	100	100
OH	Yes	100	100	100
OK ²	Yes	99	99	100
OR	Yes	100	100	100
PA	Yes	100	100	100
RI	Yes	100	100	100
SC	Yes	97	87	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	95	99
VA	Yes	100	100	96
VT	Yes	99	100	100
WA	Yes	100	100	100
WI	Yes	100	89	77
WV	Yes	100	100	100
WY ¹	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

Note: Rating anomalies may result from the variety of renewal grace periods across States. While the M4 measure allows for a 30-day grace period, individual State grace periods range from 30 to 90 days.

¹ ITD DQ team has been notified of State's renewal grace period of 90 days.

² ITD DQ team has been notified of State's renewal grace period of 60 days.

M5 Timeliness: IRP Baseline Frequency – T-22

Standard: Annual IRP baseline (minimum).

Source: ITD Support records.

Rating Ranges:

- **Good:** State conducted an IRP baseline at least once in the past 12 months.
- **Poor:** State did not conduct an IRP baseline in the past 12 months.

State	June	July	August
AK		DUE	
CT			DUE
GA	DUE		
RI	DUE		
WA			DUE

M5 Timeliness: IRP Baseline Frequency – T-22 State Ratings March – May 2023

Good: Baseline in Last 12 Months	Poor: No Baseline in Last 12 Months	Good: Baseline Due Soon
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State	IRP CVIEW Certified	March Rating	April Rating	May Rating
AK*	Yes	Good	Good	Good
AL	Yes	Good	Good	Good
AR	Yes	Good	Good	Good
AZ	Yes	Good	Good	Good
CA	Yes	Good	Good	Good
CO	Yes	Good	Good	Good
CT	Yes	Good	Good	Good
DC	Yes	Good	Good	Good
DE	Yes	Good	Good	Good
FL*	Yes	Good	Good	Good
GA	Yes	Good	Good	Good
HI	No	n/a	n/a	n/a
IA	Yes	Good	Good	Good
ID	Yes	Good	Good	Good
IL	Yes	Good	Poor	Poor
IN	Yes	Good	Good	Good
KS	Yes	Good	Good	Good
KY	Yes	Good	Good	Good
LA	Yes	Good	Good	Good
MA	Yes	Good	Good	Good
MD	Yes	Good	Good	Good
ME	Yes	Good	Good	Good
MI	Yes	Poor	Good	Good
MN	Yes	Good	Good	Good
MO	Yes	Good	Good	Good
MS	Yes	Good	Good	Good
MT	Yes	Good	Good	Good

State	IRP CVIEW Certified	March Rating	April Rating	May Rating
NC	Yes	Poor	Poor	Poor
ND	Yes	Good	Good	Good
NE	Yes	Good	Good	Good
NH	Yes	Good	Good	Good
NJ	Yes	Good	Good	Good
NM	Yes	Good	Good	Good
NV	Yes	Good	Good	Good
NY	Yes	Good	Good	Good
OH	Yes	Good	Good	Good
OK	Yes	Good	Good	Good
OR	Yes	Good	Good	Good
PA	Yes	Poor	Poor	Poor
RI	Yes	Good	Good	Good
SC	Yes	Good	Good	Good
SD	Yes	Good	Good	Good
TN	Yes	Good	Good	Good
TX	Yes	Good	Good	Good
UT	Yes	Good	Good	Good
VA	Yes	Good	Good	Good
VT	Yes	Poor	Good	Good
WA	Yes	Good	Good	Good
WI	Yes	Good	Good	Good
WV	Yes	Good	Good	Good
WY	Yes	Good	Good	Good

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

* State is exempt from baselining so receives credit for purposes of calculating the Overall rating.

Additional Information

SAFER Processing Report

The ITD Support team is aware that data quality can be impacted by the availability and timeliness of SAFER processing. The ITD DQ Evaluation report includes the following information about baseline processing and CVIEW production for the evaluated month.

May Event	Count / Month
Baselining States	3
IRP Only: MO, OK	2
IFTA and IRP: SC	1
Known Day(s) with Delays in CVIEW Production	0

Indicator of Responsiveness to Reported Data Quality Issues

The DQ Communication Process was developed and implemented to collect and report on specific data quality issues found by any State involving another State's data. Volpe collects and communicates State-reported findings, reaching out to responsible States to not only facilitate record correction, but to help the State identify conditions that may contribute to a larger data quality problem. This process depends on State participation, i.e., reporting findings and, if contacted by Volpe, promptly responding to issues. Since June 2014, Volpe has shared counts of reported and resolved issues at ITD Program Manager and ITD ACCB meetings; this indicator supplements that reporting.

Counts of Reported and Resolved DQ Issues

As of 6/14/2023:

- December 2022: 12 States with reported issues. 8/349 pending.
- February 2023: 7 States with reported issues. 1/35 pending.
- May 2023: 4 States with reported issues. 0/12 pending.

Note: Starting with December 2022, DQ discrepancies reported by PrePass are included in these counts.

Responsiveness Indicator Criteria

The Responsiveness Indicator is described below in terms of the indicator's standard and methodology, and the status categories of Good, Fair, and Poor. The table that follows lists the status of the current evaluated month along with the previous two months', for reference.

- **Standard:** Resolve reported issue(s) within 30 days.
- **Methodology:** The number of days between a State being notified by Volpe of a DQ issue and resolving that issue is compared to the 30-day standard.

Responsiveness by State to Reported Data Quality Issues March – May 2023 Results

Status Categories

- Good: Issue(s) reported and resolved within 30 days.
- Fair: Issue(s) reported during the evaluated month.
- Poor: Reported issue(s) are more than one month old.
- n/a: Not Applicable; no issues reported for that State.

Good: All Reported Issue(s) Resolved	Fair: Issue(s) Reported in Evaluated Month	Poor: Issue(s) More Than One Month Old
--------------------------------------	--------------------------------------------	----------------------------------------

State	Core Certified	March Status	April Status	May Status
AK	Yes	n/a	n/a	n/a
AL	Yes	n/a	n/a	n/a
AR	Yes	n/a	n/a	n/a
AZ	Yes	n/a	n/a	n/a
CA	Yes	Good	n/a	n/a
CO	Yes	n/a	n/a	n/a
CT	Yes	n/a	n/a	n/a
DC	No	n/a	n/a	n/a
DE	Yes	n/a	n/a	n/a
FL	Yes	n/a	n/a	n/a
GA	Yes	n/a	n/a	n/a
HI	No	n/a	n/a	n/a
IA	Yes	Good	Good	Good
ID	Yes	n/a	n/a	n/a
IL	Yes	Fair	Poor	Good
IN	Yes	Good	n/a	n/a
KS	Yes	Good	n/a	n/a
KY	Yes	n/a	n/a	n/a
LA	Yes	Good	n/a	n/a
MA	Yes	n/a	n/a	n/a
MD	Yes	n/a	n/a	n/a
ME	Yes	n/a	n/a	n/a
MI	Yes	n/a	n/a	n/a
MN	No	n/a	n/a	n/a
MO	Yes	n/a	Good	Good
MS	Yes	n/a	n/a	n/a

State	Core Certified	March Status	April Status	May Status
MT	Yes	n/a	Good	Good
NC	Yes	n/a	n/a	n/a
ND	No	n/a	n/a	n/a
NE	Yes	n/a	n/a	n/a
NH	Yes	n/a	n/a	n/a
NJ	Yes	n/a	n/a	n/a
NM	Yes	n/a	n/a	n/a
NV	Yes	n/a	n/a	n/a
NY	Yes	n/a	n/a	n/a
OH	Yes	n/a	n/a	n/a
OK	Yes	n/a	n/a	n/a
OR	Yes	Poor	Poor	Poor
PA	No	n/a	n/a	n/a
RI	Yes	n/a	n/a	n/a
SC	Yes	Fair	Poor	Poor
SD	Yes	n/a	n/a	n/a
TN	Yes	Good	n/a	n/a
TX	Yes	Good	n/a	n/a
UT	Yes	Good	Good	n/a
VA	Yes	n/a	n/a	n/a
VT	Yes	n/a	n/a	n/a
WA	Yes	n/a	n/a	n/a
WI	Yes	Good	n/a	n/a
WV	Yes	n/a	n/a	n/a
WY	Yes	n/a	n/a	n/a

Appendix: Evolution of the ITD Data Quality (DQ) Measures

Since 2015, the ITD Support team has analyzed State ITD data submitted to SAFER and reported monthly DQ results to the ITD community. The development and modification of the ITD DQ Measures and associated modifications to the monthly DQ report are summarized here.



- June 2015 report:** The initial DQ measures evaluated T-22 (IRP Registration Input Transaction). Preliminary State ratings based on April 2015 data were presented in June at the FY 2015 ITD Workshop and the first monthly DQ report was published the same month.
- August 2015 report:** A new indicator of State responsiveness to individual DQ issues reported to Volpe via the DQ Communication Process. Results are NOT included in the Overall Measure rating.
- October 2015 report:** A second set of measures like the T-22 measures to evaluate T-19 (IFTA Input Transaction). **Note:** The introduction of the T-19 measures necessitated a change to the T-22 measure of Baseline Frequency (M5), which did not distinguish between baselines of IRP and IFTA data. Going forward, IRP and IFTA baselines will be tracked and evaluated separately.
- February 2016 report:** A modification to the T-19 (IFTA) Measures. In March 2016, the T-19 Validity Measure (M4) was reassessed. Given the variations across States in reporting of the measure’s evaluated fields, an accurate rating could not be assigned to all States; thus, M4 was removed from the calculation of the T-19 Overall rating. These changes were implemented with the February 2016 evaluation, but monthly ratings were adjusted going back to October 2015.
- April 2020 report:** Modifications to the T-22 (IRP) Measures. By 2019, State ratings had improved significantly. While most States were regularly achieving Good Overall ratings, there was room for improvement. Modifications raised the bar of rating categories for the Timeliness (M1), Completeness (M2), and Validity (M4) measures, and adjusted the calculation of the Overall rating to put more emphasis on successful uploads (M2).

Adjusted Calculation of T-22 Overall Rating – April 2020

T-22 Measure	Previous Weight	New Weight
M1	20%	15%
M2	20%	30%
M3	20%	No change
M4	30%	No change
M5	10%	5%

Changes to Selected T-22 Individual Rating Ranges – April 2020

T-22 Measure	Good Rating	Fair Rating	Poor Rating
M1 Timeliness	Previous: ≥ 100% April 2020: No change	Previous: 77-99% April 2020: 95-99%	Previous: ≤ 76% April 2020: ≤ 94%
M2 Completeness	Previous: 96-100% April 2020: 100%	Previous: 90-95% April 2020: 95-99%	Previous: ≤ 89% April 2020: ≤ 94%
M4 Validity	Previous: 100% April 2020: No change	Previous: 90-99% April 2020: 95-99%	Previous: ≤ 89% April 2020: ≤ 94%

- September 2021 report:** Modifications to the T-19 (IFTA) Measures. On June 1, 2021, to ensure consistent data for the T-19 Validity Measure (M4), the “IFTA account expiration date” field was made mandatory in SAFER. After a three-month preview period, all CVIEW-certified, non-exempt States began receiving an M4 rating and the M4 measure was again included in the T-19 Overall rating calculation. (See “February 2016 report” above for background.)

Adjusted Calculation of T-19 Overall Rating – September 2021

T-19 Measure	Previous Weight	New Weight
M1	30%	15%
M2	30%	No change
M3	30%	20%
M4	Excluded	30%
M5	10%	5%

- December 2021 report:** Modifications to the T-19 (IFTA) Measures. By late 2021, while most States regularly achieved Good Overall T-19 (IFTA) ratings, there was room for improvement. Modifications implemented with the December 2021 evaluation raised the bar of rating categories for the Timeliness (M1), Completeness (M2), and Validity (M4) Measures to align with the T-22 (IRP) Measures.

Changes to Selected T-19 Individual Rating Ranges – December 2021

T-19 Measure	Good Rating	Fair Rating	Poor Rating
M1 Timeliness	Previous: $\geq 100\%$ Dec. 2021: No change	Previous: 77-99% Dec. 2021: 95-99%	Previous: $\leq 76\%$ Dec. 2021: $\leq 94\%$
M2 Completeness	Previous: 96-100% Dec. 2021: 100%	Previous: 90-95% Dec. 2021: 95-99%	Previous: $\leq 89\%$ Dec. 2021: $\leq 94\%$
M4 Validity	Previous: 100% Dec. 2021: No change	Previous: 90-99% Dec. 2021: 95-99%	Previous: $\leq 89\%$ Dec. 2021: $\leq 94\%$

- August 2022 report:** Modifications to both the T-19 (IFTA) and T-22 (IRP) Measures. As a follow-on to the December 2021 changes, the rating ranges for both Overall Ratings were adjusted to raise the bar of the Good, Fair, and Poor ratings.

Adjustments to Overall Rating Ranges – August 2022

Good Rating	Fair Rating	Poor Rating
Previous: 2.5 – 3.0 Aug. 2022: 2.7 – 3.0	Previous: 2.0 – 2.4 Aug. 2022: 2.3 – 2.6	Previous: ≤ 1.9 Aug. 2022: ≤ 2.2