

Highway Safety Improvement Program Data Driven Decisions

Maine Highway Safety Improvement Program 2014 Annual Report

Prepared by: ME

Disclaimer

Protection of Data from Discovery & Admission into Evidence

23 U.S.C. 148(h)(4) states "Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose relating to this section [HSIP], shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in the reports, surveys, schedules, lists, or other data."

23 U.S.C. 409 states "Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data."

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Executive Summary

Maine has a data driven approach for HSIP project selection, assessing various aspects of crash performance. Before and After crash results comparsion have consistently shown performance improvement over the years. HSIP selection process is re-evaluated each year to see if there opportunities for enhancement and for improved alignment for the state's SHSP.

Supplemental safety projects that are more systemic in nature, like centerline rumble strips are also funded.

Introduction

The Highway Safety Improvement Program (HSIP) is a core Federal-aid program with the purpose of achieving a significant reduction in fatalities and serious injuries on all public roads. As per 23 U.S.C. 148(h) and 23 CFR 924.15, States are required to report annually on the progress being made to advance HSIP implementation and evaluation efforts. The format of this report is consistent with the HSIP MAP-21 Reporting Guidance dated February 13, 2013 and consists of four sections: program structure, progress in implementing HSIP projects, progress in achieving safety performance targets, and assessment of the effectiveness of the improvements.

Program Structure

Program Administration

How are Highway Safety Improvement Program funds allocated in a State?

Central

District

Other

Describe how local roads are addressed as part of Highway Safety Improvement Program.

Local roads are included with the state-wide project candidates. Maine does capture crash and roadway data for Local roads and so is able to evaluate all locations within the state based on similar crash performance comparisons. Local requests are also received based on crash concerns and are reviewed as part of the candidate screening process.

Identify which internal partners are involved with Highway Safety Improvement Program planning.

Design

Planning

Maintenance

Operations

Governors Highway Safety Office

Other:

Briefly describe coordination with internal partners.

Executive, Planning (including local roads and bike/ped), Traffic Engineering, Project Development, all play a part in safety planning. MaineDOT continues to enhance its Work Plan approach to integrate safety into the planning process, looking to get safety in the planning thought process early on to consider not just stand-alone safety needs, but also opportunities that would complement upcoming paving and construction projects. Safety Office is able to review corridor project candidates in advance to identify safety needs that might align with other work.

Identify which external partners are involved with Highway Safety Improvement Program planning.

Metropolitan Planning Organizations

Governors Highway Safety Office

Local Government Association

Other:

Identify any program administration practices used to implement the HSIP that have changed since the last reporting period.

Multi-disciplinary HSIP steering committee

Other: Other-Continuing adjustments to improve approach.

Describe any other aspects of Highway Safety Improvement Program Administration on which you would like to elaborate.

None

Program Methodology

Select the programs that are administered under the HSIP.

Median Barrier	Intersection	Safe Corridor
Horizontal Curve	Bicycle Safety	Rural State Highways
Skid Hazard	Crash Data	Red Light Running Prevention
⊠Roadway Departure	⊠Low-Cost Spot Improvements	Sign Replacement And Improvement
⊠Local Safety	Pedestrian Safety	Right Angle Crash
Left Turn Crash	Shoulder Improvement	Segments
Other: Other Median Parriers		

Other: Other-Median Barriers funded through MaineDOT capital pr

Program:	Intersection	
Date of Program Methodology:	8/1/2014	
What data types were used in th	e program methodology?	
Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other-MaineDOT's Highway Corridor Priority classifications
What project identification meth	nodology was used for this program	?
Crash frequency		
Expected crash frequency with	n EB adjustment	
Equivalent property damage only (EPDO Crash frequency)		
EPDO crash frequency with EB adjustment		
Relative severity index		
Crash rate		
Critical rate		

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

⊠Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Benefit to Cost

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C 1

Available funding 2

Incremental B/C

Ranking based on net ber	nefit	
Program:	Horizontal Curve	
Date of Program Methodology:	8/1/2014	
What data types were used in th	e program methodology?	
Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other
What project identification methodology was used for this program?		
Crash frequency		
Expected crash frequency with EB adjustment		
Equivalent property damage only (EPDO Crash frequency)		

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Benefit to Cost ranking

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

1

2

Ranking based on B/C	
----------------------	--

Available funding

Incremental B/C

Ranking based on net benefit

Other

Program:	Bicycle Safety		
Date of Program Methodology:	8/1/2014		
What data types were used in the program methodology?			
Crashes	Exposure	Roadway	
All crashes	Traffic	Median width	
Fatal crashes only	⊠Volume	Horizontal curvature	

Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

 \boxtimes Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding 2

Incremental B/C

Ranking based on net benefit 1

Other

Program:	Rural State Highways	
Date of Program Methodology:	8/1/2014	
What data types were used in the	e program methodology?	
Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

Crash frequency

Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Benefit to Cost ranking

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C	1
Available funding	2
Incremental B/C	
Ranking based on net benefit	
Other	

Program:	Skid Hazard		
Date of Program Methodology:	8/1/2014		
What data types were used in the program methodology?			
Crashes	Exposure	Roadway	
All crashes	Traffic	Median width	
Fatal crashes only	Volume	Horizontal curvature	
Fatal and serious injury crashes only	Population	Functional classification	
Other	Lane miles	Roadside features	

Other

Other

What project identification methodology was used for this program?
Crash frequency
Expected crash frequency with EB adjustment
Equivalent property damage only (EPDO Crash frequency)
EPDO crash frequency with EB adjustment
Relative severity index
Crash rate
Critical rate
Level of service of safety (LOSS)
Excess expected crash frequency using SPFs
Excess expected crash frequency with the EB adjustment
Excess expected crash frequency using method of moments
Probability of specific crash types
Excess proportions of specific crash types
Other
Are local roads (non-state owned and operated) included or addressed in this program?
⊠Yes
No
If yes, are local road projects identified using the same methodology as state roads?
Yes
No

How are highway safety improvement projects advanced for implementation?

2

Competitive application process

Selection committee

Other

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Incremental B/C

Available funding

Ranking based on net benefit 1

Other

Program:	Crash Data	
Date of Program Methodology:	8/1/2014	
What data types were used in th	e program methodology?	
Crashes	Exposure	Roadway
All crashes	Traffic	Median width

2014 Maine	Highway Safety Improvement Program	
Fatal crashes only	Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

Crash frequency
Expected crash frequency with EB adjustment
Equivalent property damage only (EPDO Crash frequency)
EPDO crash frequency with EB adjustment
Relative severity index
Crash rate
Critical rate
Level of service of safety (LOSS)
Excess expected crash frequency using SPFs
Excess expected crash frequency with the EB adjustment
Excess expected crash frequency using method of moments
Probability of specific crash types
Excess proportions of specific crash types
Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding 2
Incremental B/C
Ranking based on net benefit 1
Other

Program:

Roadway Departure

Date of Program Methodology: 8/1/2014

What data types were used in the program methodology?

Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	⊠Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

Crash	frequency
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Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

 \square Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding 2

Incremental B/C

Ranking based on net benefit 1

Other

Program:	Low-Cost Spot Improvements		
Date of Program Methodology:	8/1/2014		
What data types were used in the program methodology?			
Crashes	Exposure	Roadway	
All crashes	Traffic	Median width	
Fatal crashes only	⊠Volume	Horizontal curvature	
Fatal and serious injury crashes only	Population	Functional classification	
Other	Lane miles	Roadside features	

What project identification methodology was used for this program?

Other

Other

Crash frequency
Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

⊠Yes

No

How are highway safety improvement projects advanced for implementation?

2

Competitive application process

Selection committee

Other

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding

Incremental B/C

Ranking based on net benefit

Cost Effectiveness	1	
Program:	Sign Replacement And Improveme	nt
Date of Program Methodology:	8/1/2014	
What data types were used in th	e program methodology?	
Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other
What project identification meth	nodology was used for this program	?
Crash frequency		
Expected crash frequency with	n EB adjustment	
Equivalent property damage only (EPDO Crash frequency)		
EPDO crash frequency with EB adjustment		
Relative severity index		
Crash rate		
Critical rate		

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

2

ing based on B/C

Available funding

Incremental B/C

Ranking based on net benefit 1

Other

Program:	Local Safety

Date of Program Methodology: 8/1/2014

What data types were used in the program methodology?

Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Usually work with MaineDOT's Local Roads unit

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C	

Available funding 2

Incremental B/C

Ranking based on net benefit 1

Other

Program:	Pedestrian Safety	
Date of Program Methodology:	8/1/2014	
What data types were used in the	e program methodology?	
Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

Crash frequency

	Expected	crash	frequency	with I	EB ad	ljustment
--	----------	-------	-----------	--------	-------	-----------

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-These projects are normally coordinated through MaineDOT's Bike/Ped coordinator

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding 2

Incremental B/C

Ranking based on net benefit 1

Other

Program:	Right Angle Crash	
Date of Program Methodology:	8/1/2014	
What data types were used in the	e program methodology?	
Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features

Other

Other

What project identification methodology was used for this program?
Crash frequency
Expected crash frequency with EB adjustment
Equivalent property damage only (EPDO Crash frequency)
EPDO crash frequency with EB adjustment
Relative severity index
Crash rate
Critical rate
Level of service of safety (LOSS)
Excess expected crash frequency using SPFs
Excess expected crash frequency with the EB adjustment
Excess expected crash frequency using method of moments
Probability of specific crash types
Excess proportions of specific crash types
Other
Are local roads (non-state owned and operated) included or addressed in this program?
Yes
No
If yes, are local road projects identified using the same methodology as state roads?
⊠Yes
No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Benefit to Cost ranking

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C	1
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Available funding 2

Incremental B/C

Ranking based on net benefit

Other

Program:	Left Turn Crash	
Date of Program Methodology:	8/1/2014	
What data types were used in th	e program methodology?	
Crashes	Exposure	Roadway

Traffic

Median width

2014 Maine	Highway Safety Improvement Program	n
Fatal crashes only	Volume	Horizontal curvature
Fatal and serious injury crashes only		Functional classification
Other	Lane miles	Roadside features

Other

What project identification methodology was used for this program?

Other

Crash frequency
Expected crash frequency with EB adjustment
Equivalent property damage only (EPDO Crash frequency)
EPDO crash frequency with EB adjustment
Relative severity index
Crash rate
Critical rate
Level of service of safety (LOSS)
Excess expected crash frequency using SPFs
Excess expected crash frequency with the EB adjustment
Excess expected crash frequency using method of moments
Probability of specific crash types
Crash rate

Are local roads (non-state owned and operated) included or addressed in this program?

⊠Yes

No

If yes, are local road projects identified using the same methodology as state roads?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Benefit to Cost prioritization

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C	1
Available funding	2
Incremental B/C	
Ranking based on net benefit	
Other	

Program:

Shoulder Improvement

Date of Program Methodology: 8/1/2014

What data types were used in the program methodology?

Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	⊠Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

Crash	frequency
-------	-----------

Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?
Yes

No

If yes, are local road projects identified using the same methodology as state roads?

⊠Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Benefit to Cost ranking

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C	1
Available funding	2
Incremental B/C	

Ranking based on net benefit

Other

Program:	Segments
----------	----------

Date of Program Methodology: 8/1/2014

What data types were used in the program methodology?

Crashes	Exposure	Roadway
All crashes	Traffic	Median width
Fatal crashes only	⊠Volume	Horizontal curvature
Fatal and serious injury crashes only	Population	Functional classification
Other	Lane miles	Roadside features
	Other	Other

What project identification methodology was used for this program?

- Crash frequency
- Expected crash frequency with EB adjustment
- Equivalent property damage only (EPDO Crash frequency)
- EPDO crash frequency with EB adjustment
- Relative severity index
- Crash rate
- Critical rate
- Level of service of safety (LOSS)
- Excess expected crash frequency using SPFs
- Excess expected crash frequency with the EB adjustment
- Excess expected crash frequency using method of moments
- Probability of specific crash types

Excess proportions of specific crash types

Other

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

If yes, are local road projects identified using the same methodology as state roads?

⊠Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other-Benefit to Cost ranking

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C 1

Available funding 2

Incremental B/C

Ranking based on net benefit

Other

Program:	Other-Median Barriers funded through MaineDOT capital pr							
Date of Program Methodology:	8/1/2010							
What data types were used in the	e program methodology?							
Crashes	Exposure	Roadway						
All crashes	Traffic	Median width						
Fatal crashes only	Volume	Horizontal curvature						
Fatal and serious injury crashes only	Population	Functional classification						
Other	Lane miles	Roadside features						
	Other-Divided limited access Highways - mostly interstate	Other						

What project identification methodology was used for this program?

Crash frequency

Expected crash frequency with EB adjustment

Equivalent property damage only (EPDO Crash frequency)

EPDO crash frequency with EB adjustment

Relative severity index

Crash rate

Critical rate

Level of service of safety (LOSS)

Excess expected crash frequency using SPFs

Excess expected crash frequency with the EB adjustment

Excess expected crash frequency using method of moments

Probability of specific crash types

Excess proportions of specific crash types

Other-Systemic approach for all narrow medians - less than 50' wide

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

No

How are highway safety improvement projects advanced for implementation?

Competitive application process

Selection committee

Other

Other-Only one pending median section remains for treatment - to be completed in 2014

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Relative Weight in Scoring

Rank of Priority Consideration

Ranking based on B/C

Available funding	2	
Incremental B/C		
Ranking based on net benefit	1	

Other

What proportion of highway safety improvement program funds address systemic improvements?

10

Highway safety improvment program funds are used to address which of the following systemic improvments?

Cable Median Barriers	Rumble Strips
Traffic Control Device Rehabilitation	Pavement/Shoulder Widening
⊠Install/Improve Signing	☐Install/Improve Pavement Marking and/or Delineation
Upgrade Guard Rails	Clear Zone Improvements
Safety Edge	Install/Improve Lighting
Add/Upgrade/Modify/Remove Traffic Signal	Other Other-Wrong Way Driver interstate ramp improvements, rapid flashing beacons for ped crossings,

What process is used to identify potential countermeasures?

Engineering Study

Road Safety Assessment

Other:

Identify any program methodology practices used to implement the HSIP that have changed since the last reporting period.

Highway Safety Manual

Road Safety audits

Systemic Approach

Other: Other-Have HSM calibration work completed for sections, now working on intersections; work underway on prioritizing additional centerline rumble strip needs.

Describe any other aspects of the Highway Safety Improvement Program methodology on which you would like to elaborate.

Coordination between MaineDOT project planning and safety continue to deepen, as we look to coordinate construction and paving projects with appropriate safety mitigation needs.

Progress in Implementing Projects

Funds Programmed

Reporting period for Highway Safety Improvement Program funding.

Calendar Year

State Fiscal Year

Federal Fiscal Year

Enter the programmed and obligated funding for each applicable funding category.

Funding Category	Programmed*		Obligated				
HSIP (Section 148)	9673563	95 %	10988274.6	92 %			
HRRRP (SAFETEA-LU)	0	0 %	279578.33	2 %			
HRRR Special Rule	0	0 %	0	0 %			
Penalty Transfer - Section 154	0	0 %	0	0 %			
Penalty Transfer – Section 164	0	0 %	0	0 %			
Incentive Grants - Section 163	0	0 %	0	0 %			
Incentive Grants (Section 406)	0	0 %	0	0 %			
Other Federal-aid Funds (i.e. STP, NHPP)	0	0 %	0	0 %			
State and Local Funds	0	0 %	0	0 %			

Other Safe Routes to School	461105.4	5 %	639264.34	5 %
Totals	10134668.4	100%	11907117.27	100%

How much funding is programmed to local (non-state owned and maintained) safety projects?

0%

How much funding is obligated to local safety projects?

0 %

How much funding is programmed to non-infrastructure safety projects?

5 %

How much funding is obligated to non-infrastructure safety projects?

5 %

How much funding was transferred in to the HSIP from other core program areas during the reporting

period?

0 %

How much funding was transferred out of the HSIP to other core program areas during the reporting period?

0 %

Discuss impediments to obligating Highway Safety Improvement Program funds and plans to overcome this in the future.

No impediments seen. Safety Office continues to work with Exec., Planning and Regions to improve safety planning corrdination/integration.

Describe any other aspects of the general Highway Safety Improvement Program implementation progress on which you would like to elaborate.

Continue to focus more on Lane Departure needs. Maine experiences 70% of fatalities in this category. Looking to achieve a better funding balance that is reflective of SHSP priorities - median cable barrier needs already met; increasing installations on centerline rumble strips.

General Listing of Projects

List each highway safety improvement project obligated during the reporting period.

Project	Improvement Category	Output	HSIP Cost	Total Cost	Funding Categor Y	Functional Classificati on	AAD T	Spee d	Roadwa y Owners	Relationship to SHSP		
									hip	Emphasis Area	Strate gy	
12757	Intersection geometry Intersection geometry - other	1 Numbe rs	577016	654463	HSIP (Section 148)	Rural Major Collector	1054 2	50	State aid	Intersecti ons		
16336. 1	Non-infrastructure Data/traffic records	1 Numbe rs	35000	70000	HSIP (Section 148)	NA	0	0		Data		
17057. 3	Roadside Removal of roadside objects (trees, poles, etc.)	0	35303	39225	HSIP (Section 148)	varied	0	0		Lane Departure		
17057. 5	Roadside Removal of roadside objects (trees, poles, etc.)	0	36120	40133	HSIP (Section 148)	varied	0	0		Lane Departure		
17237	Intersection traffic control Pavement markings - miscellaneous/other/unsp ecified	0	5867.69	6519.66	HSIP (Section 148)	Urban Major Collector	5650	25	State aid	Intersecti ons		

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17239	Intersection geometry Intersection geometry - other	0	58500	140000	HSIP (Section 148)	Rural Principal Arterial - Other	1850 0	50	State Highway Agency	Intersecti ons	
17241	Intersection geometry Intersection geometry - other	0	697923.0 7	806245.8 3	HSIP (Section 148)	Urban Minor Arterial	6161	50	State Highway Agency	Intersecti ons	
17258	Intersection geometry Intersection geometry - other	0	93406	1148901	HSIP (Section 148)	Rural Major Collector	1764	35	State Highway Agency	Intersecti ons	
17259	Intersection geometry Intersection geometry - other	0	131222	522972	HSIP (Section 148)	Urban Principal Arterial - Other	7989	40	State Highway Agency	Intersecti ons	
17261	Intersection geometry Intersection geometry - other	0	225404	1336902	HSIP (Section 148)	Rural Major Collector	2067	35	State aid	Intersecti ons	
17294. 1	Roadway signs and traffic control Roadway signs (including post) - new or updated	1 Numbe rs	12752.62	15940.77	HSIP (Section 148)	Varied	0	0	Varied	Lane Departure	
17334	Intersection traffic control Modify traffic signal - modernization/replaceme	0	25835	115000	HSIP (Section 148)	Urban Major Collector	1048 0	25	State aid	Intersecti ons	

	nt										
17516. 03	Roadway Roadway - other	0	123092	136769	HRRRP (SAFETE A-LU)	Rural Minor Arterial	0	0	State Highway Agency	Lane Departure	
19000	Roadside Roadside - other	1 Miles	65642	72936	HSIP (Section 148)	Rural Major Collector	0	0	State aid	Lane Departure	
19001	Intersection geometry Intersection geometry - other	0	2700	3000	HSIP (Section 148)	Urban Minor Arterial	1366 0	50	State Highway Agency	Intersecti ons	
19007	Intersection traffic control Modify traffic signal timing - signal coordination	3 Miles	99000	878503	HSIP (Section 148)	Rural Principal Arterial - Other	0	0	State Highway Agency	Intersecti ons	
19009	Intersection geometry Intersection geometry - other	0	24579.14	46703.87	HSIP (Section 148)	Urban Minor Arterial	2176 8	30	State Highway Agency	Intersecti ons	
19010	Intersection geometry Intersection geometry - other	0	71100	79000	HSIP (Section 148)	Rural Minor Arterial	1108 1	50	State Highway Agency	Intersecti ons	
19011	Roadway signs and traffic control Curve-related warning signs and flashers	3 Miles	12366	13741	HSIP (Section 148)	Rural Local Road or Street	0	0	Town or Townshi p Highway	Lane Departure	

									Agency		
19012	Roadway signs and traffic control Curve-related warning signs and flashers	0	9446	10496	HSIP (Section 148)	Rural Major Collector	0	0	State Highway Agency	Lane Departure	
19016	Roadway signs and traffic control Curve-related warning signs and flashers	2 Miles	125700	139666	HSIP (Section 148)	Rural Major Collector	0	0	State aid	Lane Departure	
19021	Interchange design Interchange design - other	0	103647	115163	HSIP (Section 148)	Urban Principal Arterial - Interstate	0	0		Intersecti ons	
19036	Roadway signs and traffic control Curve-related warning signs and flashers	2 Miles	4036	63239	HSIP (Section 148)	Rural Minor Arterial	0	0	State aid	Lane Departure	
19070	Roadway delineation Longitudinal pavement markings - remarking	0	1778322. 78	14544788 .85	HSIP (Section 148)	Rural Principal Arterial - Interstate	0	0		Lane Departure	
19085	Intersection traffic control Intersection traffic control - other	0	13691	16712	HSIP (Section 148)	Rural Minor Arterial	1863 0	40	State Highway Agency	Intersecti ons	
19119	Intersection traffic control Modify traffic signal - modernization/replaceme	0	366458.8 4	469291.0 6	HSIP (Section 148)	Urban Principal Arterial -	0	0	State Highway Agency	Intersecti ons	

	nt					Other					
19431	Intersection traffic control Modify traffic signal - modernization/replaceme nt	0	33642.93	145835.3 1	HSIP (Section 148)	Urban Principal Arterial - Other	1125 0	35	State Highway Agency	Intersecti ons	
19435	Intersection traffic control Modify traffic signal - modernization/replaceme nt	1 Numbe rs	32385.6	216992.5 1	HSIP (Section 148)	Urban Principal Arterial - Other	4419	25	State Highway Agency	Intersecti ons	
19515	Roadside Barrier- metal	0	2700	92276	HSIP (Section 148)	Rural Principal Arterial - Interstate	0	0	State Highway Agency	Lane Departure	
20442. 1	Pedestrians and bicyclists Install sidewalk	1 Numbe rs	10000	20000	HSIP (Section 148)	Rural Principal Arterial - Other	0	0	State Highway Agency	Pedestria ns	
20541. 14	Work Zone	0	31500	35000	HSIP (Section 148)	Varied	0	0		Work Zones	

Progress in Achieving Safety Performance Targets

Overview of General Safety Trends

Present data showing the general highway safety trends in the state for the past five years.

Performance Measures*	2009	2010	2011	2012	2013
Number of fatalities	171	169	159	155	153
Number of serious injuries	931.6	875.6	852	852.8	851.2
Fatality rate (per HMVMT)	1.16	1.15	1.09	1.07	1.06
Serious injury rate (per HMVMT)	6.3	5.95	5.85	5.9	5.9

*Performance measure data is presented using a five-year rolling average.









To the maximum extent possible, present performance measure* data by functional classification and ownership.

Year - 2013

Function Classification	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)
RURAL PRINCIPAL ARTERIAL - INTERSTATE	5.6	47.2	0.25	2.15
RURAL PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS	0	0	0	0
RURAL PRINCIPAL ARTERIAL - OTHER	25.4	108.2	1.42	6.06
RURAL MINOR ARTERIAL	23.6	111.8	1.39	6.58
RURAL MINOR COLLECTOR	13	63.8	1.65	8.09
RURAL MAJOR COLLECTOR	30.8	153.2	1.45	7.2
RURAL LOCAL ROAD OR STREET	26.6	125.6	1.87	8.81
URBAN PRINCIPAL	2.4	18	0.28	2.08

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ARTERIAL - INTERSTATE				
URBAN PRINCIPAL ARTERIAL - OTHER FREEWAYS AND EXPRESSWAYS	0.4	6.6	0.26	4.28
URBAN PRINCIPAL ARTERIAL - OTHER	5.4	54	0.77	7.74
URBAN MINOR ARTERIAL	6.4	76.2	0.7	8.31
URBAN MINOR COLLECTOR	0	0	0	0
URBAN MAJOR COLLECTOR	6.8	54.6	0.75	6
URBAN LOCAL ROAD OR STREET	3.8	29.8	0.89	6.97

Fatalities by Roadway Functional Classification



Roadway Functional Classification

Serious Injuries by Roadway Functional Classification



Fatality Rate by Roadway Functional Classification



Serious Injury Rate by Roadway Functional Classification



Roadway Functional Classification

Year - 2013

Roadway Ownership	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)
STATE HIGHWAY AGENCY	83.2	487.8	1.01	5.94
COUNTY HIGHWAY AGENCY	0	0	0	0
TOWN OR TOWNSHIP HIGHWAY AGENCY	30.2	152.6	1.69	8.53
CITY OF MUNICIPAL HIGHWAY AGENCY	0	0	0	0
STATE PARK, FOREST, OR RESERVATION AGENCY	0	0	0	0
LOCAL PARK, FOREST OR RESERVATION AGENCY	0	0	0	0
OTHER STATE AGENCY	0	0	0	0
OTHER LOCAL AGENCY	0	0	0	0
PRIVATE (OTHER THAN RAILROAD)	0	0	0	0
RAILROAD	0	0	0	0
STATE TOLL AUTHORITY	2.8	18.2	0.22	1.43
LOCAL TOLL AUTHORITY	0	0	0	0
OTHER PUBLIC INSTRUMENTALITY (E.G. AIRPORT, SCHOOL, UNIVERSITY)	0	0	0	0
INDIAN TRIBE NATION	0	0	0	0

2014	Maine	Highway Safety Improvement Program
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STATE AID	33.8	187.6	1.27	7.03

Number of Fatalities by Roadway Ownership



Number of Serious Injuries by Roadway Ownership



Fatality Rate by Roadway Ownership



Roadway Functional Classification

Serious Injury Rate by Roadway Ownership



Roadway Functional Classification

Describe any other aspects of the general highway safety trends on which you would like to elaborate.

Overall fatality trends have been positive and continue to improve. Maine has agressively worked with Police agencies to make sure there has been complete reporting submissions. We have identified limited departments that have had issues with successful electronic report exporting.

Maine's lead crash concern is lane departure. While overall numbers are trending down, it still represents 70% of the state's fatalities.

Application of Special Rules

Present the rate of traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65.

Older Driver Performance Measures	2009	2010	2011	2012	2013
Fatality rate (per capita)	0.174	0.178	0.16	0.152	0.156
Serious injury rate (per capita)	0.5	0.468	0.476	0.498	0.514
Fatality and serious injury rate (per capita)	0.674	0.644	0.636	0.65	0.67

*Performance measure data is presented using a five-year rolling average.

Methodology:

Queried in Maine's Crash Reporting database all crashes resulting in fatality or serious injury when fatality occurred to Crash Report Person Type: *Driver, Driver Owner or Pedestrian* over 65 years old.

Using those crash ID's, summed all resulting crash serious injuries by year. Obtained fatal numbers through Maine's FARS analyst.

Developed rates based on Section 148: Older Drivers and Pedestrians Special Rule Interim Guidance; Attachment 2: Number of People 65 Years of Age and Older (Per 1,000 Total Population) Maine population #s .





Does the older driver special rule apply to your state?

Yes

If yes, describe the approach to include respective strategies to address the increase in those rates in the State SHSP.

Main focus will be working with Maine's Mature Driver Safety working group that is looking to enhance public outreach to mature drivers, family members, clinicians and other support services to emphasize importance of driver assessments and provide guidance on appropriate driver interventions when demonstrated skills are diminishing. Mature Drivers is a focus area in Maine's current SHSP and has been updated in the upcoming 2014 SHSP edition.

Assessment of the Effectiveness of the Improvements (Program Evaluation)

What indicators of success can you use to demonstrate effectiveness and success in the Highway Safety Improvement Program?

None

Benefit/cost

Policy change

Other:

What significant programmatic changes have occurred since the last reporting period?

Shift Focus to Fatalities and Serious Injuries

Include Local Roads in Highway Safety Improvement Program

Organizational Changes

None

Other: Other-Maine's new SHSP, due out in 60 days now also references serious injuries

Other: Other-MaineDOT's safety office now reports to MaineDOT's Employee Development Office

Briefly describe significant program changes that have occurred since the last reporting period.

No significant changes in Maine's program. Here are some items currently underway:

We are in the process of updating the State's SHSP that is more closely coordinated with HSP and other safety efforts.

Expanding installation of centerline rumble strips.

Coodination of planning (Paving and construction work) with safety needs continues to see process improvement.

SHSP Emphasis Areas

For each SHSP emphasis area that relates to the HSIP, present trends in emphasis area performance measures.

Year - 2013

HSIP-related SHSP Emphasis Areas	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other- 1	Other- 2	Other- 3
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	intuities	serious injunes		(per mini)	-	-	J
Lane Departure	Head On + Went Off Road	107.8	446.6	0.75	3.1	0	0	0
Intersections	All	17.8	207.8	0.12	1.44	0	0	0
Pedestrians		10.8	49.8	0.08	0.35	0	0	0
Bicyclists		0.8	4.4	0.01	0.03	0	0	0
Older Drivers		37.2	174.4	0.26	1.21	0	0	0
Motorcyclists		19	130	0.13	0.9	0	0	0








Groups of similar project types

Present the overall effectiveness of groups of similar types of projects.

Year - 2013

HSIP Sub-program Types	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other- 1	Other- 2	Other- 3
Other-Median Barriers funded through MaineDOT capital pr	Cross median	0.2	0	0.01	0	0	0	0
Crash Data		0	0	0	0	0	0	0









Systemic Treatments

Present the overall effectiveness of systemic treatments.

Year - 2013

Systemic improvement	Target Crash Type	Number of fatalities	Number of serious injuries	Fatality rate (per HMVMT)	Serious injury rate (per HMVMT)	Other- 1	Other- 2	Other- 3
Rumble Strips	Head on	1	2.6	1.18	3.08	0	0	0









Describe any other aspects of the overall Highway Safety Improvement Program effectiveness on which you would like to elaborate.

Maine has provided median cable barrier installations on almost all narrow (<50-60' wide) interstate medians. MaineDOT does plan to automate that feature in its inventory to be enable easier monitoring of performance in the future. Only one short section remains to be installed on I-195 - Saco, expected to be completed later in 2014. No fatalities have occured on sections where median cable barrier has been installed, but incidental barrier/guardrail hits have increased. Maine experienced 4 interstate median crossover fatalities from 2005 to 2009, none since

Centerline Rumble strips were added to three selected corridors in late 2013, two more are planned for later 2014 (which will bring Maine's total to 10 sections of non-interstate Centerline Rumble Strip installations), and new candidates are being considered for 2015-17. No head-on fatalities have occurred on corridors where installed. Provide project evaluation data for completed projects (optional).

Location		Improvement Category	Improvement Type	Bef- Serious		Bef- Total			Aft- PDO	Evaluation Results
				Injury	Injury		Injury	Injury		(Benefit/ Cost Ratio)
	See attached									

Optional Attachments

Sections

Assessment of the Effectiveness of the Improvements (Program Evaluation): Systemic Treatments **Files Attached**

Completed Safety Projects CY 2010.xlsx

Glossary

5 year rolling average means the average of five individual, consecutive annual points of data (e.g. annual fatality rate).

Emphasis area means a highway safety priority in a State's SHSP, identified through a data-driven, collaborative process.

Highway safety improvement project means strategies, activities and projects on a public road that are consistent with a State strategic highway safety plan and corrects or improves a hazardous road location or feature or addresses a highway safety problem.

HMVMT means hundred million vehicle miles traveled.

Non-infrastructure projects are projects that do not result in construction. Examples of noninfrastructure projects include road safety audits, transportation safety planning activities, improvements in the collection and analysis of data, education and outreach, and enforcement activities.

Older driver special rule applies if traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65 in a State increases during the most recent 2-year period for which data are available, as defined in the Older Driver and Pedestrian Special Rule Interim Guidance dated February 13, 2013.

Performance measure means indicators that enable decision-makers and other stakeholders to monitor changes in system condition and performance against established visions, goals, and objectives.

Programmed funds mean those funds that have been programmed in the Statewide Transportation Improvement Program (STIP) to be expended on highway safety improvement projects.

Roadway Functional Classification means the process by which streets and highways are grouped into classes, or systems, according to the character of service they are intended to provide.

Strategic Highway Safety Plan (SHSP) means a comprehensive, multi-disciplinary plan, based on safety data developed by a State Department of Transportation in accordance with 23 U.S.C. 148.

Systemic safety improvement means an improvement that is widely implemented based on high risk roadway features that are correlated with specific severe crash types.

Transfer means, in accordance with provisions of 23 U.S.C. 126, a State may transfer from an apportionment under section 104(b) not to exceed 50 percent of the amount apportioned for the fiscal year to any other apportionment of the State under that section.