

North Carolina Highway Projects Safety Scoring, North Carolina Department of Transportation, Prioritization 7.0, July, 2023

File Geodatabase Feature Class



Tags

North Carolina Department of Transportation (NCDOT), Strategic Prioritization Office of Transportation (SPOT), Prioritization 7.0 (P7), Safety, Class Density Ratio, Severity Index, Critical Crash Rate Ratio, SPOT Scoring, P7, State Transportation Implementation Plan (STIP), Transportation.

Summary

This data set is comprised of sections of North Carolina roads and highways with respective safety scores based on crash data from the last 5 calendar years (2018-2022).

Description

Section Safety Scoring

Section Scoring: Points for highway section projects are scored based on three components: 1) Crash Density Ratio – The crash density of the study area versus the average crash density of similar facilities; 2) Severity Index; and 3) Critical Crash Rate Ratio – The actual crash rate for the study area versus the critical crash rate. The point breakdown for each component is shown in the table below. The points from the three safety score components are added, and then the sum is divided by three. The project areas with the higher scores are considered to have the poorer highway safety performance.

	Crash Density Ratio	Severity Index ¹	Critical Crash Rate Ratio ²
Points	Range	Range	Range
100	---- 1.15	76.80- 4.65	---- 0.80
66.7	1.15- 0.55	4.65- 2.85	0.80< - 0.45
33.3	0.55- 0.20	2.85- 1.20	0.45- 0.20
0	0.20- 0.00	1.20- 1.00	0.20- 0.00

1. Any segment with 0 crashes but a severity score of 0.99 will be updated to a severity score of 0.00
2. Segments with crashes and no Average Daily Traffic (ADT) currently have a rate score of -1, the rate score will be updated to 0.20

Traffic volume counts are not available for all sections of the state-maintained system. A large percentage of the secondary route system functionally classified as Local is not part of NCDOT's count program. This accounts for almost 30,000 miles of the state system. For highway sections without traffic volume counts the following alternative scoring system will be used for the Critical Crash Rate Ratio Score: 1) a section with no crashes will receive a crash rate score of 0; 2) a section with at least one crash will receive a crash rate score of 33.7. The overall safety score is based on the weighted average of the crash density score, the severity index score, and the critical crash rate score.

Segments à (Crash Density x 33%) + (Severity Index x 33%) + (Critical Crash Rate x 33%)

Other notes:

- The latest 5 calendar years (2018-2022) of crash data were used.

- Routes having a mileposted crash percentage of 60% or lower were not scored. However, they are still represented on the map as a black line and have values of "NA" for the crash counts and scores. These are provided as an fyi so that the end user will know which sections were not scored due to crash mileposting issues.
- Sections of routes that have atypical cross sections (e.g. 3 through lanes with a continuous center turn lane) are not given a score because statewide average crash rates are not available for these cross sections.

Other Scoring Notes:

1. For new location projects, the user must select a parallel route.
2. For projects that involve municipal streets, the user should contact the NCDOT Prioritization Office.
3. For projects that are spot locations, the user should contact the NCDOT Prioritization Office.

Fatal+A, B+C, and PDO crashes are derived and is used as part of score for Prioritization 7.0.

For the purposes of the Strategic Planning Office of Transportation Prioritization 7.0 project, data is not updated after December 2022.

For further information about domains and fields used in SPOT see the SPOT P7 Domains document here:

<https://xfer.services.ncdot.gov/gisdot/metadata/spot/NCDOT%20SPOT%20Prioritization%207%20Online%20Domain%20Reference.pdf>

Credits

North Carolina Department of Transportation GIS Unit, Strategic Prioritization Office of Transportation (SPOT)

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

SPOT On!ine is the NC Department of Transportation’s online project prioritization evaluation system. All data used for scoring and evaluating projects, including scores and preliminary point-in-time cost estimates either generated by the SPOT On!ine application or provided by the user, are only intended for use in the Department’s Strategic Prioritization Process. All SPOT On!ine project data will be used for preliminary level planning, scoring, and evaluation purposes only, and must undergo further review prior to use in the Department’s programming process. By entering SPOT On!ine, the user hereby acknowledges this statement.

Extent

West -84.421464 **East** -75.418363
North 36.615122 **South** 33.751362

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE transportation

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS ►

TITLE User
PUBLICATION DATE 2023-07-17 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Safety, Crash Density Ratio, Severity Index, Critical Crash Rate Ratio, SPOT Scoring, Highways, Safety Scoring, Mobility and Safety, North Carolina Department of Transportation (NCDOT), Strategic Prioritization Office of Transportation (SPOT), Prioritization 7.0 (P7), State Transportation Implementation Plan (STIP), Transportation.

THESAURUS ►
TITLE User
PUBLICATION DATE 2023-07-17 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE North Carolina Highway Projects Safety Scoring, North Carolina Department of Transportation, Prioritization 7.0, July, 2023
ALTERNATE TITLES Safety
PUBLICATION DATE 2023-07-17 00:00:00

PRESENTATION FORMATS * digital map

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY
ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)
CONTACT'S ROLE resource provider

CONTACT INFORMATION ►
PHONE
VOICE 919.707.4742

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TYPE postal
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
E-MAIL ADDRESS spot@ncdot.gov

HOURS OF SERVICE
8am-5pm, M-F

CONTACT INSTRUCTIONS
Phone or email

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME Traffic Safety Unit
CONTACT'S POSITION Transportation Mobility and Safety
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE (919) 814-5000

ADDRESS

TYPE postal
DELIVERY POINT 1561 Mail Service Center
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US

CONTACT INSTRUCTIONS

Phone

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

North Carolina Department of Transportation GIS Unit, Strategic Prioritization Office of Transportation (SPOT)

[Hide Resource Details ▲](#)

Extents ►

EXTENT

TEMPORAL EXTENT

DATE AND TIME 2019-09-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.421464

* EAST LONGITUDE -75.418363

* NORTH LATITUDE 36.615122

* SOUTH LATITUDE 33.751362

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 406980.080300

* EAST LONGITUDE 3051823.000300

* SOUTH LATITUDE 42564.600200

* NORTH LATITUDE 1042848.119800

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME Traffic Safety Unit
CONTACT'S POSITION Transportation Mobility and Safety
CONTACT'S ROLE originator

CONTACT INFORMATION ►

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[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

MAINTENANCE CONTACT

ORGANIZATION'S NAME Traffic Safety Unit
CONTACT'S POSITION Transportation Mobility and Safety
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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CITY Raleigh
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Resource Constraints ►

CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM none

LIMITATIONS OF USE

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Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719
X ORIGIN -121841900
Y ORIGIN -93659000
XY SCALE 10000
Z ORIGIN 0
Z SCALE 1
M ORIGIN 0
M SCALE 10000000
XY TOLERANCE 0.00020000000000000001
Z TOLERANCE 0.001
M TOLERANCE 1.9999999999999999e-07
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264

WELL-KNOWN TEXT

PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2264]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 2264
- * CODESPACE EPSG
- * VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME Safety
* OBJECT TYPE composite
* OBJECT COUNT 178877

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME Safety
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 178877

- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING TRUE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ▶

SCOPE OF QUALITY INFORMATION ▶
RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶
CONFORMANCE TEST RESULTS
TEST PASSED Yes
RESULT EXPLANATION

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. Quality checks were performed by the Strategic Prioritization Office of Transportation (SPOT) and the North Carolina Department of Transportation Geographic Information Systems Unit and errors were accepted as within business range or identified as exceptions.

PRODUCT SPECIFICATION ▶
TITLE NCDOT Geospatial Data Specifications
PUBLICATION DATE 2023-07-17 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Conceptual consistency ▲](#)

[Hide Data Quality ▲](#)

Lineage ▶

LINEAGE STATEMENT
The data were further manipulated by the North Carolina Department of Transportation Geographic Information Systems Unit and/or the North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT) to produce the required data for Prioritization 7.0.

PROCESS STEP ▶
DESCRIPTION
Points for highway section projects are scored based on three components: 1) Crash Density Ratio – The crash density of the study area versus the average crash density of similar facilities; 2) Severity Index; and 3) Critical Crash Rate Ratio – The actual crash rate for the study area versus the critical crash rate.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)
CONTACT'S ROLE processor

CONTACT INFORMATION ▶

PHONE

VOICE 919.707.4742

ADDRESS

TYPE postal

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

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8am-5pm, M-F

CONTACT INSTRUCTIONS

Phone or email

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Data is manipulated by the GIS unit

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE processor

CONTACT INFORMATION ▶

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[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Metadata is updated for publication

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

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8am-5pm, M-F

CONTACT INSTRUCTIONS

Phone or email

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION ArcGIS 10.3

* NAME File Geodatabase Feature Class

TRANSFER OPTIONS

ONLINE SOURCE

LOCATION <https://connect.ncdot.gov/resources/gis/Pages/GIS-Data-Layers.aspx>

[Hide Distribution ▲](#)

Fields ▶

DETAILS FOR OBJECT Safety ▶

- * TYPE Feature Class
- * ROW COUNT 178877

DEFINITION

For visual representation of highway section projects safety scoring.

DEFINITION SOURCE

NCDOT

FIELD OBJECTID ▶

- * ALIAS OBJECTID
- * DATA TYPE OID
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Internal feature number.

- * DESCRIPTION SOURCE
Esri

- * DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

Hide Field OBJECTID ▲

FIELD Rte_Id ▶

- * ALIAS Rte_Id
- * DATA TYPE String
- * WIDTH 11
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The 11-digit route number is a route naming convention used by NCDOT

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Positive real numbers that are manually generated

Hide Field Rte_Id ▲

FIELD BegMp1 ▶

- * ALIAS BegMp1
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Route milepost at the beginning of the reference

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

No domain

Hide Field BegMp1 ▲

FIELD ExistingKCrashes ►

* ALIAS ExistingKCrashes

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The combined number of Fatal and "A-type" injury crashes on the section.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

No domain

Hide Field ExistingKCrashes ▲

FIELD ExistingBCcrashes ►

* ALIAS ExistingBCcrashes

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The combined number of "B-type" and "C-type" injury crashes on the section.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

No domain

Hide Field ExistingBCcrashes ▲

FIELD ExistingPDOcrashes ►

* ALIAS ExistingPDOcrashes

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The number of property damage only crashes on the section.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

No domain

Hide Field ExistingPDOcrashes ▲

FIELD ExistingTotalCrashes ►

* ALIAS ExistingTotalCrashes

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The total number of crashes on the section.

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

No domain

Hide Field ExistingTotalCrashes ▲

FIELD EndMp1 ►

* ALIAS EndMp1

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Route Milepost at the end of the reference

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

No domain

Hide Field EndMp1 ▲

FIELD DENSITY_SC ►

* ALIAS DENSITY_SC

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Crash Density for segment

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 0

DESCRIPTION Crash Density of zero/no crashes

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 33.3

DESCRIPTION Low Crash Density

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 66.7

DESCRIPTION Medium Crash Density

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 100

DESCRIPTION High Crash Density

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

DESCRIPTION OF VALUES

Crash

Hide Field DENSITY_SC ▲

FIELD SEVERITY_S ►

* ALIAS SEVERITY_S

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Crash Severity index for segment

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 0

DESCRIPTION Segment with no crashes

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 33

DESCRIPTION Low Crash Severity Index Scoring

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 66.7

DESCRIPTION Medium Crash Severity Index Scoring

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 100

DESCRIPTION High Crash Severity Index Scoring

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

DESCRIPTION OF VALUES

Crash severity

[Hide Field SEVERITY_S ▲](#)

FIELD RATE_SCORE ►

- * ALIAS RATE_SCORE
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Statistically derived number which is used as a screening tool to identify locations where crash rates are higher than should be expected for a given facility type and where further engineering investigations may be considered.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 0

DESCRIPTION No Rate Score

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 33

DESCRIPTION Low Rate Score

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 66.7

DESCRIPTION Medium Rate Score

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 100

DESCRIPTION High Rate Score

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

DESCRIPTION OF VALUES

Score

[Hide Field RATE_SCORE ▲](#)

FIELD Shape ►

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Coordinates defining the features.

[Hide Field Shape ▲](#)

FIELD [Shape_Length ▶](#)

- * ALIAS Shape_Length
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Length of feature in internal units.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

[Hide Field Shape_Length ▲](#)

[Hide Details for object Safety ▲](#)

[Hide Fields ▲](#)

Metadata Details ▶

* METADATA LANGUAGE English (UNITED STATES)

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset

SCOPE NAME * dataset

* LAST UPDATE 2024-02-26

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE ISO 19139 Metadata Implementation Specification

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2023-12-06 09:11:18

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-02-26 17:04:50

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-02-26 17:04:50

[Hide Metadata Details ▲](#)

Metadata Contacts ▶

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation Strategic Prioritization Office of Transportation (SPOT)

CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

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VOICE 919.707.4742

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CONTACT INSTRUCTIONS

Phone or email

[Hide Contact information ▲](#)

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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

MAINTENANCE CONTACT

ORGANIZATION'S NAME Traffic Safety Unit

CONTACT'S POSITION Transportation Mobility and Safety

CONTACT'S ROLE point of contact

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COUNTRY US

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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM none

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