

North Dakota State Online Ambulance Reporting

Data Dictionary

Prepared by:



North Dakota EMS Patient Registry

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North Dakota Electronic EMS Reporting

History of SOAR:

A North Dakota Department of Health, Division of EMS (NDEMS) data committee consisting of representatives from the NDEMS, the trauma registry, and field providers created the State Online Ambulance Reporting (SOAR) dataset in 2004. Originally consisting of 91-elements the SOAR dataset provided data collection to the NDEMS for 3 years. The NDEMS early on was committed to participation in NEMSIS and developed their system during the early years of NEMSIS conception. There was no way the NDEMS could fully anticipate the final NEMSIS process as it matured two years later. This version 2 of the SOAR data dictionary incorporates the NEMSIS national data elements along with some of the original data elements that the NDEMS requires to provide adequate monitoring and reporting of Emergency Medical Services (EMS) activity in the State of North Dakota.

NEMSIS Explanation:

In 2001 the National Association of EMS Directors in conjunction with the National Highway Traffic Safety Administration (NHTSA) and the Trauma/EMS systems program of Health Resources and Services Administration (HRSA) agreed to develop a national EMS database. From this agreement the NEMSIS project was grown. In 2003 the member states initiated a memorandum of understanding stating that they “recognized the need for EMS data collection at the national level” and agreed to abide by the assignment of “specific definitions to a set of data elements identified as desirable to be collected on a national level”. Between 2003 and 2005 the NEMSIS project developed an EMS and demographic dataset compiling them into a databook with a defined Extended Markup Language (XML) schema to facilitate transport of the data between systems. The databook consists of two datasets; the first is referred to as the demographic dataset. This dataset collects information on the submitting agency, their vehicles, personnel, stations, medical equipment, protocols and medical direction. The second is referred to as the EMS dataset and collects information on the event or patient encounter. The elements can be used to build an extensive patient care report for medical reporting purposes as well as data collection. The current databook includes over 400 data elements that are recommended to be included in an EMS data collection system and are also referred to as the Gold set. Knowing the difficulty in collecting this many elements from end users, NEMSIS has created a subset of the data elements known as “National Data Elements” also referred as the Silver set. The Silver subset consists of a total of 83 elements, 67 elements (13 mandatory) in the EMS dataset and 16 elements (8 mandatory) in the demographic dataset. NEMSIS and NHTSA require that states at minimum must collect the “National Data Elements” for submission to the national EMS database. In April of 2006 the final release of the NEMSIS databook was published and software vendor compliance testing initiated. NEMSIS and NHTSA are now requesting states to submit their data to the national EMS database.

NEMSIS is attempting to remove the difficulty for EMS software vendors in conducting business in multiple regions or states. The movement to an accepted standardized data dictionary and XML with a standardized format removes the complaints of software vendors in modifying their software between customers in different regions or states. NEMSIS offers free compliance tools and certification process for vendors to become NEMSIS compliant. These

benefits assist to eliminate the noncompliance of EMS agencies in submitting data to the SOAR system.

Data Dictionary Format:

Each data element is presented using the following template. The Consensus Panel considered it important to provide sufficient detail about each data element to justify its inclusion in the uniform data set, as well as to assist agencies, which seek to implement a data collection system. When a data element requires specific categories, these are listed in the data item specification ("Field Values"). The Panel recognizes that the lists, which are included in this dictionary are imperfect, but definitions of these lists have been debated for many years without resolution.

This data dictionary is not designed to provide all information and explanation of the NHTSA 2 (NEMSIS 2.2.1) datasets, XML and XSD structure. Persons interested in learning more about NEMSIS or development for NEMSIS compliance should contact NEMSIS at www.nemesis.org

This document is to be used by software developers and EMS agencies to understand the request for a data element, reference acceptable values for data elements, reference the corresponding NEMSIS data dictionary identifier number, identify the business rules associated with an element's submission, denote any variations from the original NEMSIS structure deemed necessary by the NDEMS. Submitting agencies are required to be using NEMSIS Gold or Silver compliance certified software with the XSD modifications noted in this document.

Submitted XML record sets will be processed against the SOAR XSD for submission compliance. Submitted records with elements that fail the submission screening and are noted as 'record will be rejected' will fail that complete record's entry into the SOAR database. Submitted records with elements that fail the submission screening and are noted as 'will be marked as non-compliant' will allow that record's entry into the SOAR database. Non-compliance marking is to alert the EMS agency, the software vendor, and the NDEMS of a submission that does not conform to the NDEMS expected completeness or standard of an EMS record. The label of "non-compliant" is not a negative term in isolated occurrences. It is a concern when this occurs on the same element frequently or an agency has a high number of non-compliance markings. It is really meant to provide a quality assurance means to improve data collection by the end user and vendors. There is no way a system can be built that will be 100% fool proof to ensure the best data and still allow edge cases to be entered. Drawing attention to the occurrence allows all parties to evaluate the cause of the non-compliance. This will allow either the agency or software vendor to correct misconceptions on the collection of the data or the NDEMS to identify that the element business rules is not valid. The NDEMS will provide an XSD file for testing using the free testing software available from NEMSIS.

Definition of the Priority items:

Mandatory: These are elements that are required on all incidents. Failure to provide the mandatory element will flag the record of the incident to NOT be accepted into the SOAR database. Correction of the deficiency is required to properly submit the incident.

Essential: These are elements that are to be completed on incidents where they pertain as identified in the Business Rules section for the particular element. If they are missing or are

invalid the, the record will NOT be accepted by the SOAR database. When they do not pertain the vendor should follow XSD structure rules.

Desirable: These are elements that are strongly requested but may not be possible to collect on all incidents. If the item could have been collected based on the incident then the field would be marked 'Non-Complaint'.

#Element Number

Name of Data Element:	Name
Priority:	Mandatory or Essential or Desirable
Definition:	Short definition of data element
National Element:	Identifies if this element is part of the NEMSIS National Element (Silver) list. If noted 'modified' then North Dakota has made changes to the element to provide better data collection.
NHTSA 2:	Length of data element
XML:	Specifies the NEMSIS XML format and the XSD definitions.
Field Values:	Defined data elements - alternative descriptions of the data element values or attributes.

Content: Detailed discussion of definition and content.

Discussion and Justification: Provide further details and justify the data element.

Business Rules: Provide information on the requirements for and to a data element to enforce data integrity and submission compliance.

Technical Comments: Additional information which may be of use to individuals setting up a data collection system.

NEMESIS Common Null Values:

These values are to be used in each of the Demographic and EMS Data Elements described in this document, which have been defined to accept the E00 Null Values. For any collection of data to be of value and reliably represent what was intended, a strong commitment must be made to ensure the correct documentation of incomplete data. The described data integrity method must be followed with the SOAR dataset. For data elements being electronically stored in a database or moved from one database to another using XML, the indicated values should be applied when a data element is empty or contains a null value.

Not Applicable: (Code -25) = At the time of an EMS patient care report documentation, information requested was “Not Applicable” to the EMS or patient event. This indicates that it is unnecessary to document mechanism or injury related information on a patient who was not traumatized

Not Available: (Code -5) = At the time of an EMS patient care report documentation, information was “Not Available” to EMS personnel. This documents that needed information did exist but the EMS personnel was unsuccessful in their attempt to obtain it.

Not Known: (Code -10) = At the time of an EMS patient care report documentation, information was “Not Known” to patient, family, and EMS personnel. This documents that there was an attempt to obtain information but it was unknown by all parties involved

Not Recorded: (Code -20) = If an EMS documentation or information system has an empty field or nothing is recorded in any data element of the NHTSA dataset, code “-20” should be inserted into the database and/or XML for that data element indicating that the EMS Patient Care Report did not have a value for that specific data element when the EMS event or patient encounter was documented.

Not Reporting: (Code -15) = If an EMS documentation or information system is not using any of the "National" data elements of the NHTSA dataset, code “-15” should be inserted into the database and/or XML for that data element.

EMS Dataset

SOAR Element Dictionary

1. Lithocode (Patient Care Report Number)

Name of Data Element:	Lithocode (Patient Care Report Number)
Priority:	Mandatory
Definition:	The unique number automatically assigned by the EMS agency for each patient care report (PCR). This is a unique number to the EMS agency for all of time.
National Element:	YES
NHTSA 2:	E01_01
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>PatientCareReportNumber</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 8 Maximum Constraint: 32

Content: Unique 8 digit number from series assigned to a North Dakota Department of Health, Division of EMS (NDEMS) approved software product from commercial vendor or in-house from EMS agency. The NDEMS may approve the use of a 32 character globally unique identifier (GUID).

Discussion and Justification: The unique number automatically assigned by the EMS agency via software for each patient care report (PCR). **This is a unique number to the EMS agency for all of time.** This number must be unique within the state. Provides a specific key to a specific record. This record number will fulfill all the requirements for linkage, which have been described under incident number.

Business Rules: All records submitted must have a unique lithocode in the series assigned to the software vendor. Vendors may be granted an exception to submit a GUID in place of a lithocode series. Not Nullable. A unique value must be provided to create a unique record ID within a database. The same unique record ID must be used if the record is amended or updated and resubmitted. Records with duplicate or missing lithocodes will be rejected by the system

Technical Comments: This is the central and most important number in the prehospital portion of the EMS information system. Every incident must have a Lithocode number even if there is no patient. An incident will have multiple Lithocodes if there are multiple patients or multiple responders to single patients.

2. Incident Number

Name of Data Element:	Incident Number
Priority:	Mandatory
Definition:	The incident number assigned by the 911 Dispatch Center or local EMS agency.
National Element:	No
NHTSA 2:	E02_02
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>IncidentNumber</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 7 Maximum Constraint: 15

Content: This element consists of a 7-15 position alphanumeric string assigned by a local jurisdiction to each EMS related incident. Zero fill, left justified if number is small (e.g. 0000123). May use the same incident number for different patients involved in the same incident, recommend that the patients be separated by a letter or numeric identifier (i.e. 0000123A, 00001234B).

Discussion and Justification: It should be unique within an agency for a particular agency, and then by combining it with a unique agency number, it will be possible to construct another unique identifying number for the incident.

This number is valuable for linking EMS data files with other files related to the incident, such as emergency department and inpatient hospital files, if those medical files also contain this number. Accurate numbering within all available files may be facilitated by technologies such as bar codes.

Probabilistic linkage methodology is of great value when linking files that do not have numeric fields such as incident number in common. However, linkage is greatly facilitated by the presence of such a number in each of the files to be linked.

Business Rules: All records submitted must have an agency defined Incident Number for local cross-reference. Records with a missing or an invalid entry will be rejected by the system. Duplicates of this field are ignored.

Technical Comments: In some cases incident number, Lithocode number, or PSAP number may be the same.

3. EMS Agency Number

Name of Data Element:	EMS Agency Number
Priority:	Mandatory
Definition:	The state-assigned provider number of the responding agency.
National Element:	Yes
NHTSA 2:	E02_01
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>EMSAgencyNumber</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 7 Maximum Constraint: 7
Field Values:	Refer to Appendix A (EMS Agency List) for Agency Number

Content: This element consists of the State assigned agency number or affiliate number of the responding agency.

Discussion and Justification: The state-assigned provider number of the responding agency. A component of the EMS Medical Record. May be combined with other elements to build a unique identifier. Allows data to be sorted by the EMS Agency. Important for grouping and comparing EMS Agencies in Benchmarking and Quality Management . When linked to D01_02 provides the Agency name on the EMS Medical Record: Patient Care Report

Business Rules: All records submitted must have an EMS Agency Number entered. The Agency number must be from the approved agency list as published by the North Dakota Department of Health, Division of EMS. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: The first 2 digits are the agency's county of origin's numerical identifier, followed by the 5 digits of the agency's NDEMS permit number.

4. EMS Unit Call Sign (EMS Unit Number)

Name of Data Element:	EMS Unit Call Sign
Priority:	Mandatory
Definition:	The EMS unit number used to dispatch and communicate with the unit.
National Element:	Yes
NHTSA 2:	E02_12
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>EMSUnitCallSign</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 15

Content: This element consists of the unique number assigned by a local jurisdiction to each vehicle/unit in their fleet.

Discussion and Justification: It should be unique within an agency, and then unique within the State by combining it with the unique EMS Agency Number. Particularly valuable for local reporting, allows the generation of reports for a specific vehicle in a fleet. The unique unit number allows for future software product expansion for vehicle GPS, maintenance and maintenance systems.

Probabilistic linkage methodology is of great value when linking files that do not have numeric fields such as incident number in common. However, linkage is greatly facilitated by the presence of such a number in each of the files to be linked.

Business Rules: All records submitted must have a EMS Unit Call Sign entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: Not Nullable. A unique value must be provided to create a unique record ID within a database.

Submitted data will be verified for accuracy against the North Dakota Department of Health, Division of EMS Registry. The registry is established and maintained by the NDEMS. Individual EMS agencies' unit information is regulated by NEMSIS section D04_02 and is stored in the registry. EMS agencies will be responsible to revise and update their individual agency's NEMSIS demographic section D within the NDEMS Registry.

5. Type of Service Requested (Dispatch Type)

Name of Data Element:	Type of Service Requested			
Priority:	Mandatory			
Definition:	The type of service or category of service requested of the EMS service responding for this specific EMS incident.			
National Element:	Yes			
NHTSA 2:	E02_04			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfServiceRequested</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes			
Field Values:				
	30	911 Response (Scene)	35	Intercept
	40	Interfacility Transfer	45	Medical Transport
	50	Mutual Aid	55	Standby

Content: This is the type of service or category of service requested of the EMS agency responding for this specific EMS incident.

Discussion and Justification: Used to categorize the types of service, which are required, and allows planning of EMS resource allocation. Dispatch type is important for epidemiologists as well as EMS planners deciding where to allocate EMS resources. Provides descriptive data on EMS call volume and service provided.

Business Rules: All records submitted must have a Dispatch Type entered. Records with missing or an invalid Dispatch Type will be rejected a by the system.

Technical Comments:

30 911 Response

The incident request either originated from a Public Safety Answering Point (PSAP) or a “silent alarm” but would be considered a 911 response (public notifies in station crew of MVA in front of station).

35 Intercept / EMS Rendezvous

The incident request at time of dispatch was to provide a support service to another agency and if the patient condition warranted to assist in the transport of the patient. This would be utilized for

911 Responses as well as non-911 request for a similar service. Examples of this would be an ALS chase vehicle that is simultaneously dispatched or requested later to meet up either at the scene or enroute with a BLS unit.

40 *Interfacility Transfer*

The incident request is a transfer of a patient from one facility to another facility. . Examples include; a scheduled transfer of a patient from one hospital to another or emergent transfer of patient from one facility to another. This code should not be used for transports of the patient from their residence or extended care facility, which are coded separately.

45 *Medical Transport*

The incident request is a transfer of a patient from their residence or extended care facility to a physician, clinic, rehabilitation or other medical center.

50 *Mutual Aid*

The incident request is to lend assistance across jurisdictional boundaries when required; either by an emergency that exceeds local resources or a disaster. Awaiting further definition from NEMSIS.

55 *Standby*

The incident request is for a non-emergent response or for a response not covered in other descriptions. The origin of the dispatch does not dictate type, so PSAP dispatch for a non-emergent sporting standby would be a Support Services type. Other examples would be for a standby at a sporting event, community service for disabled individuals, and so on.

6. Primary Role of Unit

Name of Data Element:	Primary Role of the Unit			
Priority:	Mandatory			
Definition:	The primary role of the EMS service, which was requested for this specific EMS incident.			
National Element:	Yes			
NHTSA 2:	E02_05			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PrimaryRoleOfTheUnit</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes			
Field Values:				
	60	Non-Transport	65	Rescue
	70	Supervisor	75	Transport

Content: This is a list of the general categories that should match the primary role of this vehicle during this incident.

Discussion and Justification: The primary role of the EMS service, which was requested for this specific EMS incident. Assists in differentiating the roles of several vehicles that respond to the same incident. A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted by the role of the responder. Provides descriptive data on EMS call volume and service provided

Business Rules: All records submitted must have a Primary Role entered. Records with Records with missing or an invalid Primary Role of the Unit will be rejected a by the system.

Technical Comments:

Transport

Refers to direct response to the scene and the role of the unit was for transporting the patient. Does not matter if the incident disposition or outcome did not involve a transport, just that the unit's role was to transport a patient.

Non-Transport

Refers to direct response to the scene or rendezvous where primary care is taken over, but transport is by another EMS entity. Does not matter what the incident disposition or outcome

was.

Supervisor/Assist unit

Refers to direct response to the scene by the unit as a supervisor or provide other assistance, but did not assume primary care.

Rescue

Refers to direct response to the scene by the unit to provide rescue services, but did not assume primary care.

7. Incident / Patient Disposition

Name of Data Element:	Incident / Patient Disposition		
Priority:	Mandatory		
Definition:	Type of disposition treatment and/or transport of the patient.		
National Element:	Yes		
NHTSA 2:	E20_10		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>IncidentPatientDisposition</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes		
Field Values:			
4815	Cancelled	4820	Dead at Scene
4825	No Patient Found	4830	No Treatment Required
4835	Patient Refused Care	4840	Treated and Released
4845	Treated, Transferred Care	4850	Treated, Transported by EMS
4855	Treated, Transported by Law Enforcement	4860	Treated, Transported by Private Vehicle

Content: The final disposition of the EMS responses. Type of disposition of treatment and/or transport of the patient

Discussion and Justification: Allows reports to be generated according to the final disposition of EMS responses. This will provide information about the reasons for which EMS is notified, correlated with the ultimate incident disposition. For instance, it will be of value to know that in certain regions, EMS is frequently activated to see patients who require no treatment or transport. Reports generated from this data element may be of use in coordinating the dispatch and responder functions as well.

Business Rules: All records submitted must have an Incident/Patient Disposition entered. Records with missing or an invalid entry will be rejected by the system. This field is important in that it dictates further required fields based on the selections.

Technical Comments:

Treated and transported by EMS

This code means that the EMS responder providing the data record treated and transported the

patient. Transport may be to any valid destination, as defined for the destination data element. If the EMS responder transports a patient to a rendezvous point with another EMS responder (for instance, a ground crew rendezvous with a helicopter based agency), this is the correct code for this data element.

Treated, transferred care

This code means that the EMS responder provided treatment at the scene but the patient was transferred into the care of another service. The EMS responder did not provide transport in this instance. For example, if a BLS provider is at a scene and treats a patient, but a separate ALS responder arrives and takes over, the BLS record would indicate this code. If an EMS responder treats a patient who is then transported by a separate police or fire vehicle, this is the correct code for the EMS responder record.

Cancelled

This code means that the EMS response was cancelled enroute or on scene.

Patient refused care, Against Medical Advice (AMA)

Patient was at scene and refused care, whether injured or not. If the EMS responder knows that there is an injury, but the patient refuses care and is transported by friends or acquaintances, this is still the correct code for this data element

Treated, transported by private vehicle

This code means that the EMS responder provided treatment, but the patient was transported to his or her destination by a private vehicle. This includes instances in which the patient transports himself via private automobile, if the EMS responder understands that the patient is going to seek further medical care, such as at a private doctor's office or the local emergency department.

Treated and released

This code means that the EMS responder provided treatment, and the patient required no further emergency care. This is distinct from the instance in which the patient is known to be in need of further care, but is transported by him self or others to the facility providing further care

No treatment required

This code means that the EMS responder evaluated the patient, and no treatment was required. If the patient refused evaluation, or if the EMS responder did not evaluate a specific patient, this is not the correct code for this data element.

Dead at scene

This code means that the patient was pronounced dead at the scene, whether or not treatment was undertaken. If a patient is given CPR at the scene and transported to the hospital while undergoing CPR, then this is not the correct code. If a patient is given CPR and is then pronounced dead at the scene, this is the correct code.

No patient found

This code is used if a unit arrives on scene, but the responder can find no patient or there is no

patient contact.

Treated, Transported by Law Enforcement

This code means that the EMS responder provided treatment, but the patient was transported to his or her destination by a law enforcement vehicle.

8. Patient's First Name

Name of Data Element:	Patient's First Name		
Priority:	Desirable		
Definition:	Patient's First (given) Name.		
National Element:	No		
NHTSA 2:	E06_02		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>FirstName</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: No Minimum Constraint: 1 Maximum Constraint: 20		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant characters

Content: If patient contact is established enter the patient's first name if known. Local policy should dictate how Last Name and First Name should be created if unknown.

Discussion and Justification: Desirable because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. Allows a patient's information to be stored and retrieved by first name. Key component of an EMS Medical Record. Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc.

It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

Business Rules: If the patient's first name is unable to be obtained or the call does not involve a patient contact then one of the above field value codes should be entered.

Technical Comments: Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

9. Patient's Last Name

Name of Data Element:	Patient's Last Name			
Priority:	Desirable			
Definition:	Patient's Last (family) Name.			
National Element:	No			
NHTSA 2:	E06_01			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>LastName</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 20			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant characters

Content: If patient contact is established enter the patient's first name if known. Local policy should dictate how Last Name and First Name should be created if unknown.

Discussion and Justification: Essential because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. Allows a patient's information to be stored and retrieved by last name. Key component of an EMS Medical Record. Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc.

It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

Business Rules: If the patient's last name is unable to be obtained or the call does not involve a patient contact then one of the above field value codes should be entered.

Technical Comments: Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

10. Date of Birth

Name of Data Element:	Date of Birth
Priority:	Essential
Definition:	Patient's date of birth.
National Element:	Yes
NHTSA 2:	E06_16
XML:	XSD Data Type: <i>xs:date</i> XSD Domain (Simple Type): <i>DateOfBirth</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty Required in XSD: Yes Minimum Constraint: 1,890 Maximum Constraint: 2,030

Content: Format permits sorting across multiple years, and is recommended for data export purposes. Century digits are mandatory.

Discussion and Justification: Extremely valuable for probabilistic linkage and calculation of accurate age information. Provides much more discriminatory power in probabilistic linkage than the numeric age. Key component of an EMS Medical Record. Provides important information which will allow EMS data to be sorted, grouped and evaluated by age demographics.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Date of Birth value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

11. Age

Name of Data Element:	Age
Priority:	Essential
Definition:	Patient's age or best approximation
National Element:	Yes
NHTSA 2:	E06_14
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Age</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty Required in XSD: Yes Minimum Constraint: 1 Maximum Constraint: 120

Content: Patient's age either calculated from date of birth or best approximation. Requires additional information of Age Units

Discussion and Justification: Valuable in the absence of a date of birth. Age information permits linkage to other files, and is useful for epidemiologists interested in patterns of emergency medical problems in different age groups.

Technical Comments: Age information permits linkage to other files and is useful for epidemiologists interested in patterns of emergency medical problem in different age groups.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Patient's Age submitted. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

12. Age Units

Name of Data Element:	Age Units			
Priority:	Essential			
Definition:	The units which the age is documented in as listed below.			
National Element:	Yes			
NHTSA 2:	E06_15			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AgeUnits</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	700	Hours
	705	Days	710	Months
	715	Years		

Content: The units which the age is documented in hours, days, months or years. Requires additional information of Age.

Discussion and Justification: Valuable in the absence of a date of birth. Age information permits linkage to other files, and is useful for epidemiologists interested in patterns of emergency medical problems in different age groups. Allows data to be sorted based on age. Allows data to describe the age of the EMS patient population.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Age Unit submitted.

Technical Comments: Days are to be used for 1 to 30 days from birth. Months are to be used for 1 to 12 months from birth. Years are to be used for anyone over 12 months from birth.

13. Gender

Name of Data Element:	Gender		
Priority:	Essential		
Definition:	Gender of patient.		
National Element:	Yes		
NHTSA 2:	E06_11		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Gender</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	650	Male
655	Female		

Content: The gender or sex of the patient.

Discussion and Justification: Valuable for linkage to other files, and permits reporting of epidemiological information by gender. Allows data to be sorted based on gender. Allows data to describe the gender of the EMS patient population.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Patient's Gender entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments:

-10 *Not Known*

This code should be used only when the sex of the patient cannot be accurately determined after patient contact. If no patient was encountered then the appropriate number of spaces should be submitted.

14. Patient Street Address

Name of Data Element:	Patient Street Address			
Priority:	Desirable			
Definition:	Patient's street address.			
National Element:	No			
NHTSA 2:	E06_04			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>StreetAddress</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 30			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant values

Content: The patient's legal residence's street address should be entered. Local jurisdiction may allow temporary or billing address to be entered.

Discussion and Justification: Essential because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

Business Rules: If Patient's Street Address is not reported, this field should be submitted with one of the appropriate field values listed.

Technical Comments: Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

15. Patient's City of Residence

Name of Data Element:	Patient's City of Residence			
Priority:	Desirable			
Definition:	Patient's residence postal city (if applicable)			
National Element:	No			
NHTSA 2:	E06_05			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>City</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 30			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant values

Content: The patient's city of legal residence. Local jurisdiction may allow temporary or other billing city to be entered.

Discussion and Justification: Essential because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

Business Rules: If Patient's City of Residence is not reported, this field should be submitted with one of the appropriate field values listed.

Technical Comments: Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

16. Patient's State of Residence

Name of Data Element:	Patient's State of Residence			
Priority:	Desirable			
Definition:	State of patient's residence (if applicable)			
National Element:	No			
NHTSA 2:	E06_07			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>State</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 3			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant values

Content: The patient's state of legal residence. Local jurisdiction may allow temporary or other billing state to be entered.

Discussion and Justification: Useful for determining the political entity responsible for potential public health interventions, payment for services, etc.

Business Rules: If Patient's State of Residence is not reported, this field should be submitted with one of the appropriate field values listed.

Technical Comments: Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

17. Zip Code of Patient's Residence

Name of Data Element:	Zip Code of Patient's Residence			
Priority:	Essential			
Definition:	Zip Code of patient's residence			
National Element:	Yes			
NHTSA 2:	E06_08			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>Zip</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 10			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant values

Content: The patient's zip code of legal residence. Local jurisdiction may allow temporary or other billing zip code to be entered.

Discussion and Justification: Useful for determining the political entity responsible for potential public health interventions, payment for services, etc. From Zip Code, county could be derived in software.

Business Rules: If Patient's Zip Code is not reported, this field should be submitted with one of the appropriate field values listed.

Technical Comments: Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

-10 *Not Known*

This code should only be used if submitting the complete address elements and the patient's zip code is unknown. Do not send this code if no patient encountered or not submitting above listed data elements. In such cases submit the appropriate number of spaces.

18. Social Security Number

Name of Data Element:	Social Security Number		
Priority:	Desirable		
Definition:	Patient Social Security number		
National Element:	No		
NHTSA 2:	E06_10		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SocialSecurityNumber</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 9		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant values

Content: The patient's 9-digit social security number

Discussion and Justification: Will provide valuable linkage data element. However, this field is very difficult for field responders to obtain.

Business Rules: If the Patient's Social Security Number is not reported this field should be submitted with one of the appropriate field values listed.

Technical Comments: May be particularly valuable in jurisdictions where driver licenses or other forms of identification have bar coded Social Security numbers. Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

-10 *Not Known*

This code should only be used if submitting patient demographic information and the patient's social security number is unknown. Do not send this code if no patient encountered or not submitting above listed data elements. In such cases submit the appropriate number of spaces.

19. Race

Name of Data Element:	Race		
Priority:	Essential		
Definition:	Patient's ethnic origin.		
National Element:	Yes		
NHTSA 2:	E06_12,		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Race</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	660	American Indian or Alaska native
665	Asian	670	Black or African American
675	Native Hawaiian or Other Pacific Islander	680	White
685	Other Race		

Content: The provider's impression of the patient's ethnic origin.

Discussion and Justification: The patient's race as defined by the US Office of Management and Budget. Useful for epidemiological studies, and of importance to data systems in order to access certain types of federal or state funds which are directed to specific ethnic groups.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Race submitted. Records with missing or an invalid entry will be rejected by the system. If the data element is not reported this field should be submitted with one of the appropriate field values listed.

Technical Comments:

685 *Other*

This code should be used when race can be determined but is not one of the races specified in the

list.

-10 *Not Known*

This code should be used when patient's race cannot be accurately determined due to decomposition, burns, etc. It is not to be used if no patient contact was made.

20. Ethnicity

Name of Data Element:	Ethnicity		
Priority:	Essential		
Definition:	The patient's ethnicity.		
National Element:	Yes		
NHTSA 2:	E06_13		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Ethnicity</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	690	Hispanic or Latino
695	Not Hispanic or Latino		

Content: The provider's impression of the patient's ethnicity.

Discussion and Justification: The patient's ethnicity as defined by the US Office of Management and Budget. Useful for epidemiological studies, and of importance to data systems in order to access certain types of Federal or state funds which are directed to specific ethnic groups.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Ethnicity submitted. Records with missing or an invalid entry will be rejected by the system. If the data element is not reported this field should be submitted with one of the appropriate field values listed.

Technical Comments:

-10 *Not Known*

This code should be used when patient's ethnicity cannot be accurately determined due to

21. Crewmember Certification Type

Name of Data Element:	Crewmember Certification Type		
Priority:	Mandatory		
Definition:	Personnel certification / license level of crew member		
National Element:	No		
NHTSA 2:	E04_03		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CrewMemberLevel</i> Multiple Entry Configuration: Yes Accepts Null Values: No Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	635	Student
640	Other Healthcare Provider	645	Other Non-Healthcare Professional
6090	EMT-Basic	6100	EMT-Intermediate
6110	EMT-Paramedic	6111	Nurse
6112	Physician	6120	First Responder

Content: This crewmember's highest, listed held certification/license level.

Discussion and Justification: This data element permits assessing the highest level of care, which was available on the EMS responder team. By combining this information with vehicle type, there is maximum flexibility in describing the type of service, which was provided. For instance, any level of crewmember certification may be present with any type of vehicle. Reports of value may include descriptions of therapies according to level of provider, adherence to protocols which are written differently for various levels of provider, etc.

Business Rules: All records submitted must have at least one Crewmember Certification Type *position entered*. Records with missing or an invalid Crewmember Certification Type will be rejected by the system.

Technical Comments: If the selected Crewmember Certification Type is not listed as 'Other', then a North Dakota Department of Health, Division of EMS or other North Dakota State regulatory agency (RN/Physician) certification number is required for the corresponding

Certification Number data element (refer to that data element's business rule section). This element captures the highest certification of the responder as recognized by the North Dakota Department of Health, Division of EMS. Certifications held but not listed must be marked as 'Other'.

A corresponding Crewmember Certification Type, Number, and Role should be submitted for each crewmember on the reported incident

22. Crewmember Certification Number

Name of Data Element:	Crewmember Certification Number		
Priority:	Essential		
Definition:	Personnel certification / license number for first crewmember.		
National Element:	No		
NHTSA 2:	E04_01		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>CrewMemberID</i> Multiple Entry Configuration: Yes Accepts Null Values: No Required in XSD: Yes Minimum Constraint = 2 Maximum Constraint = 15		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant value

Content: A crewmember's certification/license number, corresponding to the entered certification level.

Discussion and Justification: Necessary to identify specific crewmembers participating in an EMS response. Useful for constructing experience reports, monitoring care rendered by specific providers, planning educational programs.

Business Rules: All records submitted must have at least one Crewmember Certification Number or field value entered. Records with missing or an invalid Crewmember Certification Type will be rejected by the system. This element is the unique, properly formatted certification/license number associated with the corresponding certification level.

Technical Comments: Submission of a North Dakota Department of Health, Division of EMS or other North Dakota State regulatory agency (RN/Physician) certification number is required for the corresponding Certification Number data element. If the corresponding Crewmember Certification Type is listed as 'Other' then no certification number should be supplied. Failure to supply a certification number when required will flag the record as non-compliant. If the crewmember position and associated crewmember certification type is not entered then the field must be left blank and filled with the appropriate number of spaces. This element is the unique certification number associated with the highest certification of the responder as assigned by the

North Dakota Department of Health, Division of EMS or North Dakota State regulatory agency.

Submitted data will be verified for accuracy against the North Dakota Department of Health, Division of EMS Registry. The registry is established and maintained by the NDEMS. Individual EMS agencies' personnel information is regulated by NEMSIS section D07 and is stored in the registry. EMS agencies will be responsible to revise and update their individual agency's NEMSIS demographic section D within the NDEMS Registry.

A corresponding Crewmember Certification Type, Number, and Role should be submitted for each crewmember on the reported incident

23. Crewmember Role

Name of Data Element:	Crewmember Role		
Priority:	Mandatory		
Definition:	Crewmember role		
National Element:	No		
NHTSA 2:	E04_02		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CrewMemberRole</i> Multiple Entry Configuration: Yes Accepts Null Values: No Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	580	Driver
585	Primary Patient Caregiver	590	Secondary Patient Caregiver
595	Third Patient Caregiver	600	Other

Content: A crewmember's role on the reported incident.

Discussion and Justification: Identifies the primary care provider and owner of the PCR in the WebCUR™ system.

Business Rules: All records submitted must have at minimum a Crewmember Role of Primary Patient Care Giver value entered. Additional crewmember added should be assigned their respective role for the reported incident. Records with missing or an invalid Crewmember Role will be rejected by the system.

Technical Comments: The WebCUR™ and EMStat™ systems use this element to define security and ownership of the PCR entered. The person responsible for completion of the patient care report is the person who should be marked as the Crew Chief.

A corresponding Crewmember Certification Type, Number, and Role should be submitted for each crewmember on the reported incident

Driver

Is defined as the driver during the time of patient transport or during the response if there was not

transport required.

Primary Patient Care Giver

Is defined as the individual responsible for the patient care during the transport of the patient, or if no transport, the individual responsible for the assessment and treatment of the patient on scene.

Secondary Patient Care Giver

Is defined as the individual assisting the Primary Patient Care Giver.

Third Patient Care Giver

Is defined as the individual assisting in the Primary and Secondary Patient Care Givers.

24. PSAP Call Date/Time

Name of Data Element:	PSAP Call Date/Time (Time Incident Reported)
Priority:	Mandatory
Definition:	The date/time dispatch was notified by the 911 call taker (if a separate entity).
National Element:	Yes
NHTSA 2:	E05_02
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>Date Time</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: Time and date call is first received by Public Safety Answering Point (PSAP) or other designated entity

Discussion and Justification: Provides the start point of the EMS response, and allows managers to assess the adequacy of EMS response, identify delays, and plan resources in a manner to provide expeditious EMS response.

Business Rules: All records submitted must have a PSAP Call Date/Time of Call entered. Records with missing or an invalid entry will be rejected by the system. .

Technical Comments: If PSAP Call Date/Time is not collected by the EMS agency, this field may be filled with the same time/date as Dispatched. Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

25. Unit Notified by Dispatch Date/Time

Name of Data Element:	Unit Notified by Dispatch Date/Time (Dispatched)
Priority:	Mandatory
Definition:	The date the responding unit was notified by dispatch.
National Element:	Yes
NHTSA 2:	E05_03
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes

Content: The date and time the unit was notified by dispatch to respond.

Discussion and Justification: Permits measurement of the actual responder response or delays. Assists planning of communication resources for individual responders, and allows identification of system delays following the dispatch component of the EMS system.

Business Rules: All records submitted must have a Dispatched date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.OZ.

26. Unit Enroute Date/Time

Name of Data Element:	Unit Enroute Date/Time (Enroute/Responding)
Priority:	Essential
Definition:	The date/time the unit responded; that is, the time the vehicle started moving
National Element:	Yes
NHTSA 2:	E05_05
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>Date Time</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: The date/time that the response unit begins physical motion.

Discussion and Justification: Permits measurement of delay between notification of EMS responder and the actual mobilization of the response unit. This data element refers to physical motion of the responding EMS vehicle, and does not refer to individual EMTs who may respond directly to the scene when notified by individual radio or telephone. For example, if an EMS incident is reported, one EMT may be at home or at work and be responsible to go to the station, which holds the ambulance. Another EMT may be notified and may drive in a private vehicle directly to the scene. The data element entered should be the time that the ambulance actually leaves the station, not the time at which the other EMT drives to the scene in the private vehicle.

Business Rules: All records submitted must have a Unit Enroute date/time entered. Records with missing or an invalid entry will be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.OZ.

27. Unit Arrived on Scene Date/Time (Arrive Scene)

Name of Data Element:	Unit Arrived on Scene Date/Time (Arrive Scene)
Priority:	Essential
Definition:	Time EMS unit stops physical motion at scene.
National Element:	Yes
NHTSA 2:	E05_06
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: The time/date the EMS unit stops physical motion at scene, last place that the unit or vehicle stops prior to assessing the patient.

Discussion and Justification: Permits measurement of the time required for the response vehicle to go from the station to the scene. This data element refers to the physical motion of the responding EMS vehicle. If an individual EMT arrives at the scene by private vehicle that is NOT the value to be entered in this field. Otherwise, system delays in having an equipped vehicle at the scene will fail to be identified.

Business Rules: All records submitted must have a Unit Arrived on Scene date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

28. Arrived at Patient Date/Time (Arrive Patient)

Name of Data Element:	Arrived at Patient Date/Time (Arrive Patient)
Priority:	Essential
Definition:	The date/time the responding unit arrived at the patient's side
National Element:	Yes
NHTSA 2:	E05_07
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: The date/time response personnel establish direct contact with patient.

Discussion and Justification: Desirable in certain situations in which there may be a significant delay between the time at which a response unit arrives at the scene and the time at which the personnel can access the patient. For example, if the EMTs are prevented because of fire or adverse conditions from approaching the patient, this time will be useful. Search and rescue operations will also note delays between arrival at the overall scene and the actual patient contact.

Business Rules: All records submitted must have a Arrived at Patient date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

29. Unit Left Scene Date/Time (Depart Scene)

Name of Data Element:	Unit Left Scene Date/Time (Depart Scene)
Priority:	Essential
Definition:	Time when the response unit begins physical motion from scene.
National Element:	Yes
NHTSA 2:	E05_09
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: The date/time when the response unit begins physical motion from scene.

Discussion and Justification: Permits calculation of scene time by subtracting the time of arrival at scene from the time unit left scene.

Business Rules: All records submitted must have a Unit Left Scene date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

30. Time Arrival at Facility/Destination Date/Time (Arrive Destination)

Name of Data Element:	Time Arrival at Facility/Destination Date/Time (Arrive Dest.)
Priority:	Essential
Definition:	Time when patient arrives at destination or transfer point.
National Element:	Yes
NHTSA 2:	E05_10
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: The date/time when patient arrives at destination or transfer point.

Discussion and Justification: Permits calculation of the time required to go from the scene to the destination of the response unit. If the patient is transferred from one EMS responder vehicle to another, then the time of arrival at destination for the first responder is the time of arrival or patient contact (or both) for the second agency.

Business Rules: All records submitted must have a Time Arrival at Facility date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

31. Unit Back In Service Date/Time (Available)

Name of Data Element:	Unit Back In Service Date/Time (Available)
Priority:	Mandatory
Definition:	Time response unit back in service and available for response.
National Element:	Yes
NHTSA 2:	E05_11
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes

Content: The date/time the unit back was back in service and available for response, finished with call, but not necessarily back in home location.

Discussion and Justification: Allows planning of EMS resources. Permits assessment of the delay between arrival at destination and availability of the response unit.

Business Rules: All records submitted must have a Unit Back in Service date/time entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

32. Unit Back at Home Location

Name of Data Element:	Unit Back at Home Location
Priority:	Mandatory
Definition:	The date/time the responding unit was back in their service area. In agencies who utilized Agency Status Management, home location means the service area as assigned through the agency status management protocol.
National Element:	Yes
NHTSA 2:	E05_13
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>Date Time</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: The date/time the responding unit was back in their service area. In agencies who utilized Agency Status Management, home location means the service area as assigned through the agency status management protocol.

Discussion and Justification: Allows planning of EMS resources. Allows data to be sorted based on EMS agency time. Allows data to describe EMS agency time intervals.

Business Rules: All records submitted must have a Unit Back at Home Location date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

33. Incident or Onset Date / Time

Name of Data Element:	Incident or Onset Date /Time
Priority:	Desired
Definition:	Estimated date / time of injury or onset of medical symptoms either by EMS personnel or reported to EMS personnel by patient or bystander.
National Element:	No
NHTSA 2:	E05_01
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: No

Content: The patient or provider's estimated date/time of injury or symptom onset.

Discussion and Justification: Necessary to measure impact of injury time on treatment provided by EMS staff as well as receiving trauma care facility.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules or not submitted.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

34. Type of Dispatch Delay

Name of Data Element:	Type of Dispatch Delay		
Priority:	Essential		
Definition:	The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter.		
National Element:	Yes		
NHTSA 2:	E02_06		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfDispatchDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	80	Caller (Uncooperative)
85	High Call Volume	90	Language Barrier
95	Location (Inability to obtain)	100	No Units Available
105	None	110	Other
115	Scene Safety (Not Secure for EMS)	120	Technical Failure (Computer, Phone, etc.)

Content: The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter.

Discussion and Justification: Allows data to describe the status of Dispatch issues.

Business Rules: All records submitted must have a Type of Dispatch Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred.

35. Type of Response Delay

Name of Data Element:	Type of Response Delay		
Priority:	Essential		
Definition:	The response delays, if any, of the unit associated with the patient encounter		
National Element:	Yes		
NHTSA 2:	E02_07		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfResponseDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	125	Crowd
130	Directions	135	Distance
140	Diversions	145	Hazmat
150	None	155	Other
160	Safety	165	Staff Delay
170	Traffic	175	Vehicle Crash
180	Vehicle Failure	185	

Content: The response delays, if any, of the unit associated with the patient encounter

Discussion and Justification: Allows data describing Vehicle Failures and Vehicle Crashes, Allows data to describe the status of Response issues

Business Rules: All records submitted must have a Type of Response Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred.

36. Type of Scene Delay

Name of Data Element:	Type of Scene Delay		
Priority:	Essential		
Definition:	The scene delays, if any, of the unit associated with the patient encounter		
National Element:	Yes		
NHTSA 2:	E02_08		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfSceneDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	190	Crowd
195	Directions	200	Distance
205	Diversions	210	Extrication > 20 Min.
215	Hazmat	220	Language Barrier
225	None	230	Other
235	Safety	240	Staff Delay
245	Traffic	250	Vehicle Crash
255	Vehicle Failure	260	Weather

Content: The scene delays, if any, of the unit associated with the patient encounter

Discussion and Justification: Allows data describe Vehicle Failures and Vehicle Crashes. Allows data to describe the status of Scene issues

Business Rules: All records submitted must have a Type of Scene Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

-25 Not Applicable

At the time of the report documentation, information requested was "Not Applicable" to the incident. This indicates that it was unnecessary to document a delay if none occurred.

37. Type of Transport Delay

Name of Data Element:	Type of Transport Delay		
Priority:	Essential		
Definition:	The transport delays, if any, of the unit associated with the patient encounter		
National Element:	Yes		
NHTSA 2:	E02_09		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfTransportDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	165	Crowd
270	Directions	275	Distance
280	Diversions	285	Hazmat
290	None	295	Other
300	Safety	305	Staff Delay
310	Traffic	315	Vehicle Crash
320	Vehicle Failure	325	Weather

Content: The transport delays, if any, of the unit associated with the patient encounter.

Discussion and Justification: Allows data describing Vehicle Failures and Vehicle Crashes. Allows data to describe the status of Transport issues.

Business Rules: All records submitted must have a Type of Transport Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred.

38. Type of Turn-around Delay

Name of Data Element:	Type of Turn-around Delay		
Priority:	Essential		
Definition:	The turn-around delays, if any, associated with the EMS unit associated with the patient encounter		
National Element:	Yes		
NHTSA 2:	E02_10		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfTurnAroundDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	165	Crowd
270	Directions	275	Distance
280	Diversions	285	Hazmat
290	None	295	Other
300	Safety	305	Staff Delay
310	Traffic	315	Vehicle Crash
320	Vehicle Failure	325	Weather

Content: The turn-around delays, if any, associated with the EMS unit associated with the patient encounter.

Discussion and Justification: Allows data describing ED overcrowding and Vehicle Failure. Allows data to describe the status of call time issues.

Business Rules: All records submitted must have a Type of Turn-around Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred

39. Response Mode to Scene (Lights or Sirens to Scene)

Name of Data Element:	Response Mode to Scene (Lights or Sirens to Scene)		
Priority:	Essential		
Definition:	The use of lights or sirens enroute to scene.		
National Element:	Yes		
NHTSA 2:	E02_20		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ResponseModeToScene</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
380	Initial Lights and Sirens, Downgraded	385	Initial No Lights or Sirens, Upgraded
390	No Lights and Sirens	395	Lights and Sirens

Content: Indication whether or not lights and/or sirens were used on the vehicle on the way to the scene.

Discussion and Justification: To allow system administrators to know the frequency with which responder vehicles are using lights and sirens. Such usage carries explicit risks and EMS managers are responsible to assure that lights and sirens are used appropriately.

Business Rules: All records submitted must have a Response Mode to Scene entered. Records with missing or an invalid entry will be rejected and marked as non-compliant by the system.

40. Transport Mode From Scene (Lights or sirens used from scene)

Name of Data Element:	Transport Mode From Scene (Lights or sirens from scene)		
Priority:	Essential		
Definition:	Use of lights and/or sirens from the scene.		
National Element:	Yes		
NHTSA 2:	E20_14		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TransportModeFromScene</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
4955	Initial Lights and Sirens, Downgraded	4960	Initial No Lights or Sirens, Upgraded
4970	No Lights and Sirens	4965	Lights and Sirens

Content: Indication whether or not lights and/or sirens were used on the vehicle while leaving scene.

Discussion and Justification: Allow system administrators to know the frequency with which responder vehicles are using lights and sirens. Such usage carries explicit risks and EMS managers are responsible to assure that lights and sirens are used appropriately.

Business Rules: All records submitted must have a Transport Mode to Scene entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element should be submitted with one of the above listed NEMSIS Section E00 (Common Null) field values.

Technical Comments:

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it is unnecessary to document transport mode if the incident and the incident disposition demonstrates that the incident did not warrant a transport mode.

41. Incident Address

Name of Data Element:	Incident Address			
Priority:	Mandatory			
Definition:	The street address where the unit responded or patient was found.			
National Element:	No			
NHTSA 2:	E08_11			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>StreetAddress</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 50 (30)			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value

Content: The actual or best approximation of the street address where the patient was found, or, if no patient, the address to which the unit responded.

Discussion and Justification: Provides street address to better pinpoint incidents and allow mapping. Important for grouping or comparing data by Scene location that also allows data to be sorted by geographic response areas in many agencies. Provides information on overall response patterns and times for agency configuration and evaluation. Field may be used for local city reports, permitting local understanding of the impact of EMS.

Business Rules: All records submitted must have an Incident Address entered. The address can be entered or submitted with one of the above listed NEMSIS Section E00 (Common Null) field values. Records with a missing or an invalid entry will be rejected by the system.

Technical Comment: This is to be used to allow the NDEMS to interface with state geocoding systems to build location based on the street address and zip code. The maximum constraint has been increased from NEMSIS standard to allow more accurate and complete address collection.

42. Incident City FIPS

Name of Data Element:	Incident City FIPS			
Priority:	Mandatory			
Definition:	City or township (if applicable) where patient was found or to which unit responded (or best approximation).			
National Element:	No, required for North Dakota			
NHTSA 2:	E08_12			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>City</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 8			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value
Refer to Appendix C				
(North Dakota City FIPS List)				

Content: The civil district's FIPS code that the unit was dispatched to or encountered the incident in.

Discussion and Justification: Provides city location of incident, which can be used to determine the appropriate level of EMS resources for specific areas. In addition, this field may facilitate probabilistic linkage to crash reports from the same city, or to hospitals within the same city. Field may be used for local city reports, permitting local understanding of the impact of EMS.

Business Rules: All records submitted must have an Incident City FIPS entered. The FIPS number must be from the approved FIPS list as published by the North Dakota Department of Health, Division of EMS or with one of the above listed NEMESIS Section E00 (Common Null) field values. Records with a missing or an invalid entry will be rejected by the system.

Technical Comment: Stored as a five (5)-digit field, coded using the FIPS system, wherein each city is encoded as a five (5)-digit number place code. City FIPS codes are only unique within a state. Refer to the approved North Dakota City FIPS list in the appendix.

43. Incident County FIPS

Name of Data Element:	Incident County FIPS			
Priority:	Mandatory			
Definition:	County or Parish where patient was found or to which unit responded (or best approximation).			
National Element:	Yes,			
NHTSA 2:	E08_13			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>County</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 8			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value
Refer to Appendix E				
(Iowa County FIPS List)				

Content: The county or parish's FIPS code that the unit was dispatched to or encountered the incident in.

Discussion and Justification: Provides county location of incident, which can be used to determine the appropriate level of EMS resources for specific areas. In addition, this field may facilitate probabilistic linkage to crash reports from the same city, or to hospitals within the same city. Field may be used for local city reports, permitting local understanding of the impact of EMS.

Business Rules: All records submitted must have an Incident County FIPS entered. The FIPS number must be from the approved FIPS list as published by the North Dakota Department of Health, Division of EMS or with one of the above listed NEMESIS Section E00 (Common Null) field values. Records with a missing or an invalid entry will be rejected by the system.

Technical Comment: Stored as an eight (5)-digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state. Refer to the approved North Dakota County FIPS list in the

appendix.

44. Incident Zip Code

Name of Data Element:	Incident Zip Code		
Priority:	Mandatory		
Definition:	Zip code of incident.		
National Element:	Yes		
NHTSA 2:	E08_15		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>Zip</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 10		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		The appropriate digits for Zip Code

Content: The ZIP code of the dispatched or actual incident location.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the geographic location of the EMS Incident. Allows data to describe geographic location of the EMS Incident. Zip codes cross county and civil districts thereby requiring the City/County FIPS code collection along with Zip Code for billing purposes.

Business Rules: All records submitted must have an Incident Zip Code entered. Records with missing or an invalid entry will be rejected by the system

Technical Comments: Only the United State Postal Service zip codes are accepted.

45. Incident GPS Location

Name of Data Element:	Incident GPS Location
Priority:	Desired
Definition:	The GPS coordinates of the incident
National Element:	No
NHTSA 2:	E08_10
XML:	XSD Data Type: <i>xs:decimal</i> XSD Domain (Simple Type): <i>GPSLocation</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: No XSD Attributes: Latitude and Longitude are each stored as a separate attribute

Content: The GPS coordinates associated with the scene.

Discussion and Justification: Provides precise coordinates of incidents and improves mapping. Important for grouping or comparing data by Scene location that also allows data to be sorted by geographic response areas in many agencies. Provides information on overall response patterns and times for agency configuration and evaluation. Field may be used for local city reports, permitting local understanding of the impact of EMS.

Business Rules: This field is not required for submission and only requested from agencies with the capability to provide GPS information. Records with an invalid entry will be marked as non-compliant by the system. If not reporting this information the entry should not be submitted in the XML file.

Technical Comment: This is to be used to allow the NDEMS to interface with state geocoding systems to build location based on the GPS coordinates. Must adhere to the NEMSIS GPS submission standards to be considered proper format.

46. Location Type

Name of Data Element:	Location Type		
Priority:	Mandatory		
Definition:	Type of location of incident		
National Element:	Yes, modified		
NHTSA 2:	E08_07		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>IncidentLocationType</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1135	Home/Residence
1140	Farm	1145	Mine or Quarry
1150	Industrial Place and Premise	1155	Place of Recreation or Sport
3	Other Traffic Way	18	School/University
9	Bar/Restaurants	15	Clinic /Dr. Office
16	Extended Care Facility	1185	Lake, River, Ocean
1190	Other Location	2	Traffic Way 55+ mph
14	Acute Care Facility	21	Non Public Road / Off Road.
7	Wilderness	8	Hotel /Motel
12	Office Business	4	Public Place
20	Casino		

Content: Location type data items are coded in terms of the (ICD-9) E849 place of occurrence codes. This location refers to the location where the injury occurred, not necessarily the origin of the transport.

Discussion and Justification: Location type of the incident is important for epidemiologists as well as EMS planners deciding where to allocate EMS resources. Allows data to be sorted based on the Incident Location and Type. Allows data to describe the Incident Location and the distribution of EMS events.

Business Rules: All records submitted must have a Location Type entered. Records with

missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: If responders do not arrive on scene they are to approximate the incident location based on dispatch information

****Note this list encompasses more than the NEMSIS list of location type. These exceptions allow for more defined coding of established or unique locations inherent to North Dakota that are not addressed in NEMSIS but important for state planning.**

47. Destination Transferred To Code (Receiving Agency)

Name of Data Element:	Destination Transferred To, Code (Receiving Agency)														
Priority:	Essential														
Definition:	Specific Health Care Facility or Prehospital Agency that received patient from EMS provider providing this record.														
National Element:	Yes														
NHTSA 2:	E20_02														
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>DestinationTransferredToCode</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 7 (50)														
Field Values:															
<table border="1"> <tr> <td>-25</td> <td>Not Applicable</td> <td>-20</td> <td>Not Recorded</td> </tr> <tr> <td>-15</td> <td>Not Reporting</td> <td>-10</td> <td>Not Known</td> </tr> <tr> <td>-5</td> <td>Not Available</td> <td></td> <td>The appropriate digits agency</td> </tr> </table>				-25	Not Applicable	-20	Not Recorded	-15	Not Reporting	-10	Not Known	-5	Not Available		The appropriate digits agency
-25	Not Applicable	-20	Not Recorded												
-15	Not Reporting	-10	Not Known												
-5	Not Available		The appropriate digits agency												
Refer to Appendix B {7 digit Health Facility Number}															
Refer to Appendix A {7digit EMS Agency Number}															

Content: This element consists of the unique 7-digit number as assigned by the North Dakota Department of Health, Division of EMS for approved health care facilities and EMS agencies.

Business Rules: Records submitted with an Incident Disposition involving EMS transport or care transferred must have a Destination Transferred To value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules. Records with missing or an invalid entry will be rejected by the system

Technical Comments: None.

-10 *Not Known*

This code should be used when the specific facility number or EMS agency number is not known.

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it is unnecessary to document destination transferred to if the incident and the incident disposition demonstrates that the incident did not warrant a transport mode.

48. Destination Zip Code

Name of Data Element:	Destination Zip Code		
Priority:	Essential		
Definition:	The destination zip code in which the patient was delivered or transferred to		
National Element:	Yes		
NHTSA 2:	E20_07		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>Zip</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 10		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		The appropriate digits for Zip Code

Content: The ZIP code of the incident location

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the destination location. Allows data to describe patient's geographic destination. Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies. Provides information on overall service area, patterns and times for agency configuration and evaluation.

Business Rules: All records must have a Destination Zip Code value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: Only the United State Postal Service zip codes are accepted.

49. Destination Type

Name of Data Element:	Destination Type		
Priority:	Essential		
Definition:	The type of destination the patient was delivered or transferred to.		
National Element:	Yes		
NHTSA 2:	E20_17		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfDestination</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	7270	Home
7280	Hospital	7290	Medical Office/Clinic
7300	Morgue	7320	Nursing Home
7330	Other	7340	Other EMS Responder (air)
7350	Other EMS Responder (ground)	7360	Police/Jail

Content: The type of the destination the patient was delivered or transferred to.

Discussion and Justification: Allows reporting by destination facilities, and allows linking when a patient is transferred between EMS responder agencies. Not applicable would be selected when there is no patient.

It is anticipated that each region or state will codify its list of hospitals in an internally consistent manner, permitting reports by facility. For purposes of the uniform data set, the first 8 categories have been defined above. For purposes of export to a larger data set, such as a national data set, all hospital destinations would be collapsed down into a single code for Hospital.

This data element is very valuable for probabilistic linkage. For instance, when an EMS responder indicates a specific hospital identifier, this can greatly facilitate linkage to outpatient and inpatient facility records.

Business Rules: All records must have a Destination Type value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

50. Destination Determination

Name of Data Element:	Destination Determination		
Priority:	Essential		
Definition:	Reason a transport destination was selected.		
National Element:	Yes		
NHTSA 2:	E20_16		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ReasonForChoosingDestination</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	4990	Closest Facility
4995	Diversion	5000	Family Choice
5005	Insurance Status	5010	Lawn Enforcement Choice
5015	On-Line Medical Direction	5020	Other
5025	Patient Choice	5030	Patient's Physician Choice
5035	Protocol	5040	Specialty Resource Ctr.

Content: The reason used to determine the transfer location.

Discussion and Justification: Helps EMS managers to determine whether the choice of destination is appropriate. Items, which are defined as patient, physician, or family choice, are of interest to determine whether a trauma or referral system is functioning well, or is frequently overridden by non-medical issues.

Business Rules: All records must have a Destination Determination value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

51. CMS Service Level (Nature of Incident)

Name of Data Element:	CMS Service Level (Nature of Incident)		
Priority:	Mandatory		
Definition:	Type of care available/rendered by personnel regardless of level		
National Element:	Yes		
NHTSA 2:	E07_34		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CMSServiceLevel</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	990	BLS
995	BLS, Emergency	1000	ALS, Level 1
1005	ALS, Level 1 Emergency	1010	ALS, Level 2
1015	Paramedic Intercept	1020	Specialty Care Transport
1025	Fixed Wing (airplane)	1030	Rotary Wing (helicopter)

Content: Identified the highest type of care rendered at the incident.

Discussion and Justifications: The CMS service level for this EMS encounter. Allows data to be quantified and described based on the CMS Service Level. Allows data to be sorted based on the CMS Service Level. Important for EMS billing

Business Rules: All records must have a CMS Service Level value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

Technical Comments: None.

52. Prior Aid

Name of Data Element:	Prior Aid		
Priority:	Essential		
Definition:	Any care which was provided to the patient prior to the arrival of this unit.		
National Element:	Yes		
NHTSA 2:	E09_01		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>PriorAid</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 30		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Field Values from Procedures & Medications

Content: Enter any care provided to patient prior to arrival of this reporting unit.

Discussion and Justification: Beneficial to planners and researchers in evaluating the skills and abilities of those first to arrive on the scene or witness emerging situations where medical or injuries are paramount. Allows data to be sorted based on the specific prior aid received or not received by the patient. Allows data to describe aid which was provided prior to EMS arrival. Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Business Rules: All records must have a Prior Aid value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

Technical Comments: Field value list created from Procedures (E19_03) and Medications (E18_03).

53. Prior Aid Performed By

Name of Data Element:	Prior Aid Performed By			
Priority:	Essential			
Definition:	The type of individual who performed the care prior to the arrival of this unit.			
National Element:	Yes			
NHTSA 2:	E09_02			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PriorAidPerformedBy</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	1195	EMS Provider
	1200	Law Enforcement	1205	Lay Person
	1210	Other Healthcare Provider	1215	Patient

Content: Identify the type of the individual who performed the prior aid entered.

Discussion and Justification: Beneficial to planners and researchers in evaluating the skills and abilities of those first to arrive on the scene or witness emerging situations where medical or injuries are paramount. Allows data to be sorted based on the specific prior aid received or not received by the patient. A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on who provided specific prior aid. Allows data to describe who performed any aid which was provide prior to EMS arrival to the patient. Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Business Rules: All records must have a Prior Aid Performed By value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

Technical Comments: None.

54. Outcome of Prior Aid

Name of Data Element:	Outcome of Prior Aid			
Priority:	Essential			
Definition:	What was the outcome or result of the care performed prior to the arrival of the unit?			
National Element:	Yes			
NHTSA 2:	E09_03			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>OutcomeOfPriorAid</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	1220	Improved
	1225	Unchanged	1230	Worse

Content: Identifies the outcome of the aid performed prior to the unit arrival.

Discussion and Justification: Beneficial to planners and researchers in evaluating the skills and abilities of those first to arrive on the scene or witness emerging situations where medical or injuries are paramount. Allows data to be sorted based on the perceived outcome which resulted from specific prior aid received by the patient. Allows data to describe aid which was provided prior to EMS arrival . Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Business Rules: All records must have an Outcome of Prior Aid value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

Technical Comments: None.

55. Vital Signs Date/Time

Name of Data Element:	Vital Signs Date/Time
Priority:	Essential
Definition:	Date and Time that vital signs were obtained
National Element:	No
NHTSA 2:	E14_01
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes

Content: Date and time that the vital signs were obtained

Discussion and Justification: Desirable in certain situations in which there may be a significant delay between the time at which a response unit arrives at the scene and the time at which the personnel can access the patient. For example, if the EMTs are prevented because of fire or adverse conditions from approaching the patient, this time will be useful. Search and rescue operations will also note delays between arrival at the overall scene and the actual patient contact.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Vital Signs Date/Time entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

56. Pulse Rate

Name of Data Element:	Pulse Rate		
Priority:	Essential		
Definition:	Patient's palpated or auscultated pulse rate expressed in number per minute.		
National Element:	No		
NHTSA 2:	E14_07		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PulseRate</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty Required in XSD: Yes Minimum Constraint: -25 Maximum Constraint: 500		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

Content: Patient's palpated or auscultated pulse rate expressed in number per minute.

Discussion and Justification: The pulse rate is a component of various triage-scoring systems, and permits a rough assessment of the severity of illness of the patient. This data element is based on the physical examination of the patient, and the pulse must be palpated or auscultated. An electrical rhythm is not sufficient, as the patient could have pulse less electrical activity (PEA). In this instance, the correct value of this data element is '000'.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Pulse Rate entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: It is recognized that it may be difficult to obtain an initial pulse rate during a minority of patient encounters. Use the following value to notate that it was decided to not or unable to obtain an initial pulse rate.

-5 Not Available

This is to be coded if a patient was encountered and no pulse was assessed. It is not to be used if

no patient was encountered or the incident does not require a pulse rate

57. Respiratory Rate

Name of Data Element:	Respiratory Rate		
Priority:	Essential		
Definition:	Unassisted patient respiratory rate expressed as number per minute.		
National Element:	No		
NHTSA 2:	E14_11		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>RespiratoryRate</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty Required in XSD: Yes Minimum Constraint: -25 Maximum Constraint: 100		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

Content: Unassisted patient respiratory rate expressed as number per minute.

Discussion and Justification: Component of several triage scoring systems and provides some assessment of severity of illness or injury. If a patient is not breathing and requires artificial ventilation, this data element should be coded as '000'.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Respiratory Rate entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: It is recognized that patient's encountered may have an initial respiratory rate greater than 100, however, planning and epidemiological studies do not need to differentiate individual numbers greater than the maximum setting. This should limit the submission of, as well as flag erroneous data. Null value should only be used when it is appropriate to not submit the data. Estimated respiratory rates should be collected on all patient encounters.

-5 Not Available

This is to be coded if a patient was encountered and no initial respiratory rate was assessed. It is not to be used if no patient was encountered or the incident does not require a pulse rate.

58. Systolic Blood Pressure

Name of Data Element:	Systolic Blood Pressure		
Priority:	Essential		
Definition:	Patient's systolic blood pressure		
National Element:	No		
NHTSA 2:	E14_04		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>SBP</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty Required in XSD: Yes Minimum Constraint: -25 Maximum Constraint: 400		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

Content: Patient's systolic blood pressure

Discussion and Justification: Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Systolic Blood Pressure entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: The coding of '0' should only be used if a blood pressure is attempted but not able to be determined due to poor perfusion. It is recognized that patient's encountered may have an initial systolic blood pressures greater than 400, however, planning and epidemiological studies do not need to differentiate individual number greater than the maximum setting. This should limit the submission of, as well as flag erroneous data. It is recognized that it may be difficult to obtain an initial systolic blood pressure during a minority of patient encounters. Use the following value to notate that it was decided to not or unable to obtain an initial pulse rate.

-5 Not Available

This is to be coded if a patient was encountered and no systolic blood pressure was assessed. It is not to be used if no patient was encountered or the incident does not require a systolic blood pressure.

59. Diastolic Blood Pressure

Name of Data Element:	Diastolic Blood Pressure		
Priority:	Essential		
Definition:	Patient's diastolic blood pressure		
National Element:	No		
NHTSA 2:	E14_05		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>DBP</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty Required in XSD: Yes Minimum Constraint: -25 Maximum Constraint: 300		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

Content: Patient's diastolic blood pressure

Discussion and Justification: Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Diastolic Blood Pressure entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: The coding of '0' should only be used if a blood pressure is attempted but not able to be determined due to poor perfusion. It is recognized that patient's encountered may have an initial diastolic blood pressures greater than 300, however, planning and epidemiological studies do not need to differentiate individual number greater than the maximum setting. This should limit the submission of, as well as flag erroneous data. It is recognized that it may be difficult to obtain an initial diastolic blood pressure during a minority of patient encounters. Use the following value to notate that it was decided to not or unable to obtain an initial diastolic blood pressure.

-5 Not Available

This is to be coded if a patient was encountered and no diastolic blood pressure was assessed. It is not to be used if no patient was encountered or the incident does not require a diastolic blood pressure.

60. Blood Pressure Method

Name of Data Element:	Blood Pressure Method			
Priority:	Essential			
Definition:	Indication of method of blood pressure procedure.			
National Element:	No			
NHTSA 2:	E14_06			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>MethodOfBloodPressure</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	3150	Arterial Line	3155	Automated Cuff
	3160	Manual Cuff	3165	Palpated Cuff
	3170	Venous Line		

Content: Indication of method of blood pressure procedure.

Discussion and Justification: Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Blood Pressure Method entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

61. Skin Assessment

Name of Data Element:	Skin Assessment		
Priority:	Essential		
Definition:	The assessment of the patient's skin on examination		
National Element:	No		
NHTSA 2:	E16_04		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>SkinAssessment</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3420	Normal
3425	Not Done	3430	Clammy
3435	Cold	3440	Cyanotic
3445	Jaundiced	3450	Lividity
3455	Mottled	3460	Pale
3465	Warm		

Content: The assessment of the patient's skin on examination.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Skin Assessment entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

3425 Not Done

This is to be coded if a patient was encountered and no skin perfusion was assessed. It is not to be used if no patient was encountered or the incident does not require a skin perfusion assessment.

62. Glasgow Eye Opening Component

Name of Data Element:	Glasgow Eye Opening Component		
Priority:	Essential		
Definition:	Patient's eye opening component of the Glasgow coma scale.		
National Element:	No		
NHTSA 2:	E14_15		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>GCSEye</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimal Constraint = -25 Maximum Constraint = 4		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
1	Eyes Don't Open	2	Opens Eyes to Painful Stimulation
3	Open Eyes to Verbal Stimulation	4	Open Eyes Spontaneously

Content: Initial evaluation of the eye opening of the Glasgow coma scale assessment.

Discussion and Justification: One of three components of the Glasgow Coma Scale (GCS), which is widely used to assess neurological status. The score and its components are also parts of a variety of triage scoring systems. The component by itself does not offer a true assessment of neurological status; therefore a complete GCS examination assessing all three components must be submitted for neurological evaluation purposes.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Glasgow Eye Opening Component entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: A judgment that the data element is not applicable should not be made at the responder level. Instead, this can be made by generating data reports for specific conditions in which the data element is considered relevant, and examining the field for valid values.

-5 Not Available

This is to be coded if a patient was encountered and GCS was not assessed. It is not to be used if no patient was encountered or the incident does not require a GCS assessment.

63. Glasgow Verbal Component

Name of Data Element:	Glasgow Verbal Component		
Priority:	Essential		
Definition:	Patient's verbal component of the Glasgow coma scale		
National Element:	No		
NHTSA 2:	E14_16		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>GCSVerbal</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimal Constraint = -25 Maximum Constraint = 5		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
	Patients 0 – 23 months	1	None
2	Persistent Cry	3	Inappropriate Cry
4	Cries, inconsolable	5	Smiles, coos, cries appropriately
	Patients 2 –5 Years	1	None
2	Grunts	3	Cries and/or Screams
4	Inappropriate Words	5	Appropriate Words
	Patients > 5 Years	1	None
2	Non-specific Words	3	Inappropriate Words
4	Confused conversation or speech	5	Oriented and appropriate speech

Discussion and Justification: One of three components of the Glasgow Coma Scale, which is widely used to assess neurological status. The score and its components are also parts of a variety of triage scoring systems. The component by itself does not offer a true assessment of neurological status; therefore a complete GCS examination assessing all three components must be submitted for neurological evaluation purposes.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Glasgow Verbal Component entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to

not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the patient is intubated and deeply comatose, then this data element is coded as 1 for none, since there was no verbal response at the time of Intubation. However, if the patient is intubated but not deeply comatose, and there is a possibility of verbal response, it is difficult to apply the Glasgow coma scale. The EMS responder can ask questions and if the patient can nod his head or blink eyes, etc. appropriately, then this element is coded as 5. A judgment that the data element is not applicable should not be made at the responder level. Instead, this can be made by generating data reports for specific conditions in which the data element is considered relevant, and examining the field for valid values.

-5 Not Available

This is to be coded if a patient was encountered and GCS was not assessed. It is not to be used if no patient was encountered or the incident does not require a GCS assessment.

64. Glasgow Motor Component

Name of Data Element:	Glasgow Motor Component		
Priority:	Essential		
Definition:	Patient's motor component of the Glasgow coma scale.		
National Element:	No		
NHTSA 2:	E14_18		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>GCSMotor</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimal Constraint = -25 Maximum Constraint = 6		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
	Patients < 5 Years	1	None
2	Extensor posturing in response to painful stimulation	3	Flexor posturing in response to painful stimulation
4	General withdrawal in response to painful stimulation	5	Localization of painful stimulation
6	Spontaneous		
	Patients >5 Years	1	None
2	Extensor posturing in response to painful stimulation	3	Flexor posturing in response to painful stimulation
4	General withdrawal in response to painful stimulation	5	Localization of painful stimulation
6	Obeys Commands		

Discussion and Justification: One of three components of the Glasgow Coma Scale, which is widely used to assess neurological status. The score and its components are also parts of a

variety of triage scoring systems. The component by itself does not offer a true assessment of neurological status; therefore a complete GCS examination assessing all three components must be submitted for neurological evaluation purposes.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Glasgow Motor Component entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: This component cannot be assessed if the patient has received a muscle relaxant. However, information on patient's response prior to the muscle relaxant may be reported for this initial assessment. A judgment that the data element is not applicable should not be made at the responder level. Instead, this can be made by generating data reports for specific conditions in which the data element is considered relevant, and examining the field for valid values.

-5 Not Available

This is to be coded if a patient was encountered and GCS was not assessed. It is not to be used if no patient was encountered or the incident does not require a GCS assessment.

65. Initial Cardiac Rhythm

Name of Data Element:	Initial Cardiac Rhythm		
Priority:	Desirable		
Definition:	Initial monitored cardiac rhythm as interpreted by EMS personnel.		
National Element:	No		
NHTSA 2:	E14_03		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacRhythm</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3005	12 Lead ECG – Anterior Ischemia
3010	12 Lead ECG – Inferior Ischemia	3015	12 Lead ECG – Lateral Ischemia
3020	Agonal / Idioventricular	3025	Artifact
3030	Asystole	3035	Atrial Fibrillation / Flutter
3040	AV Block – 1 st Degree	3045	AV Block – 2 nd Degree Type 1
3050	AV Block – 2 nd Degree Type 2	3055	AV Block – 3 rd Degree Type 3
3060	Junctional	3065	Left Bundle Branch
3070	Normal Sinus Rhythm	3075	Other
3080	Paced Rhythm	3085	PEA
3090	Premature Atrial Contractions	3095	Premature Ventricular Contractions
3100	Right Bundle Branch Block	3105	Sinus Arrhythmia
3110	Sinus Bradycardia	3115	Sinus Tachycardia
3120	Supraventricular Tachycardia	3125	Torsades De Points
3130	Unknown AED Non-Shockable Rhythm	3135	Unknown AED Shockable Rhythm
3140	Ventricular Fibrillation	3145	Ventricular Tachycardia

Discussion and Justification: Provides the initial monitored rhythm, permitting reports generated according to initial rhythm. Such reports would be of use in assessing the survival rate after certain rhythms.

It is understood that some agencies collect data about cardiac rhythms with more detail than this list. For instance, many agencies expect EMS personnel to distinguish first, second, and third degree heart block. There is no intention to restrict the manner in which any agencies decide to code cardiac rhythms, but there is a necessity to be able to collapse those rhythms to a common definition, which can then be combined. For the examples of heart block mentioned, those would all collapse into AV Block.

Business Rules: Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Initial Cardiac Rhythm entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

-5 Not Available

This is to be coded if a patient was encountered and initial cardiac rhythm was not assessed. It is not to be used if no patient was encountered or the incident does not require a cardiac rhythm assessment.

-15 Not Reporting

This is to be coded if the EMS responder is not an appropriate level provider to assess electrical rhythm, or if electrical monitoring is unavailable to the provider.

66. Final Cardiac Rhythm (at Destination)

Name of Data Element:	Final Cardiac Rhythm (at Destination)		
Priority:	Desirable		
Definition:	Monitored cardiac rhythm upon arrival at destination.		
National Element:	No		
NHTSA 2:	E11_11		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacRhythmAtDestination</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3005	12 Lead ECG – Anterior Ischemia
3010	12 Lead ECG – Inferior Ischemia	3015	12 Lead ECG – Lateral Ischemia
3020	Agonal / Idioventricular	3025	Artifact
3030	Asystole	3035	Atrial Fibrillation / Flutter
3040	AV Block – 1 st Degree	3045	AV Block – 2 nd Degree Type 1
3050	AV Block – 2 nd Degree Type 2	3055	AV Block – 3 rd Degree Type 3
3060	Junctional	3065	Left Bundle Branch
3070	Normal Sinus Rhythm	3075	Other
3080	Paced Rhythm	3085	PEA
3090	Premature Atrial Contractions	3095	Premature Ventricular Contractions
3100	Right Bundle Branch Block	3105	Sinus Arrhythmia
3110	Sinus Bradycardia	3115	Sinus Tachycardia
3120	Supraventricular Tachycardia	3125	Torsades De Points
3130	Unknown AED Non-Shockable Rhythm	3135	Unknown AED Shockable Rhythm
3140	Ventricular Fibrillation	3145	Ventricular Tachycardia

Discussion and Justification: Captures the electrical rhythm at the time of arrival at a destination, as previously defined. Reports could examine whether this rhythm differs from the initial rhythm of the patient when encountered in the field, whether there was improvement or deterioration, etc. If an EMS responder is not equipped with electrical monitoring capability or is not of an appropriate level to assess rhythm, this field should be coded as not applicable.

Business Rules: Records submitted with an Incident Disposition involving EMS Transport must have a Final Cardiac Rhythm entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

67. Cardiac Arrest

Name of Data Element:	Cardiac Arrest			
Priority:	Essential			
Definition:	Indication of the presence of a cardiac arrest at any time associated with the EMS event.			
National Element:	Yes			
NHTSA 2:	E11_01			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacArrest</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	2240	Yes, Prior to EMS Arrival	2245	Yes, After EMS Arrival

Discussion and Justification: Indication of the presence of a cardiac arrest at any time associated with the EMS event. A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the occurrence of a cardiac arrest. Allows data to describe the number of cardiac arrests within the EMS patient population.

Business Rules: If answered 'Yes,...', all other data points in the Situation/CPR (E11) should be addressed.

Technical Comments: None.

68. Cardiac Arrest Etiology

Name of Data Element:	Cardiac Arrest Etiology		
Priority:	Essential		
Definition:	Indication of the etiology or cause of the cardiac arrest.		
National Element:	Yes		
NHTSA 2:	E11_02		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacArrestEtiology</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2250	Presumed Cardiac
2255	Trauma	2260	Drowning
2265	Respiratory	2270	Electrocution
2275	Other		

Content: Indication of the etiology or cause of the cardiac arrest.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the occurrence of a cardiac arrest. Allows data to describe the number of cardiac arrests within the EMS patient population.

Business Rules: Complete only if Cardiac Arrest (E11_01) is 'Yes,'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11_01) is 'Yes,'. Null to be accepted when record is not appropriate.

Technical Comments: None.

69. Resuscitation Attempted

Name of Data Element:	Resuscitation Attempted		
Priority:	Essential		
Definition:	Indication of an attempt to resuscitate the patient who is in cardiac arrest.		
National Element:	Yes		
NHTSA 2:	E11_03		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ResuscitationAttempted</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2280	Attempted Defibrillation
2285	Attempted Ventilation	2290	Initiated Chest Compression
2295	Not Attempted – Considered Futile	2300	Not Attempted – DNR Orders
2305	Not Attempted – Signs of Circulation		

Content: Indication of an attempt to resuscitate the patient who is in cardiac arrest.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the type of resuscitation initiated during a cardiac arrest. Allows data to describe the number of cardiac arrests within the EMS patient population, which resulted in resuscitative efforts.

Business Rules: Complete only if Cardiac Arrest (E11_01) is ‘Yes,’. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11_01) is ‘Yes,’. Null to be accepted when record is not appropriate.

Technical Comments: None.

70. Witnessed Cardiac Arrest

Name of Data Element:	Witnessed Cardiac Arrest			
Priority:	Desirable			
Definition:	Indication of who the cardiac arrest was witnessed by			
National Element:	No			
NHTSA 2:	E11_04			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ArrestWitnessedBy</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	2310	Witnessed by Healthcare Provider
	2315	Witnessed by Lay Person	2320	Not Witnessed

Content: Documents who the cardiac arrest was witnessed by.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the Witnessed or Un-Witnessed Arrest, which is a known key element, associated with Cardiac Arrest Outcome. Allows data to describe aid, which was provided prior to EMS arrival. Used as a Quality Management tool to evaluate Bystander and First Responder involvement

Business Rules: Complete only if Cardiac Arrest (E11_01) is 'Yes, ...'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11_01) is 'Yes, ...'. Null to be accepted when record is not appropriate.

Technical Comments: None.

71. Estimated Time of Arrest Prior to EMS Arrival

Name of Data Element:	Estimated Time of Arrest Prior to EMS Arrival		
Priority:	Desirable		
Definition:	The length of time the patient was down (estimated) before the responding unit arrived at the patient		
National Element:	No		
NHTSA 2:	E11_08		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ArrestWitnessedBy</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
2390	> 20 Minutes	2395	15-20 Minutes
2400	10-15 Minutes	2405	8-10 Minutes
2410	6-8 Minutes	2415	4-6 Minutes
2420	2-4 Minutes	2425	0-2 Minutes

Content: Documents the estimated time length from cardiac arrest to arrival of EMS.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

Business Rules: Complete only if Cardiac Arrest (E11_01) is 'Yes, ...'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11_01) is 'Yes, ...'. Null to be accepted when record is not appropriate.

Technical Comments: Replaces SOAR 1.0 field of Estimated Time of Cardiac Arrest.

72. Time/Date Resuscitation Discontinued

Name of Data Element:	Time Resuscitation Discontinued
Priority:	Desirable
Definition:	The date/time the CPR was discontinued (or could be time of death).
National Element:	No
NHTSA 2:	E11_09
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>Date Time</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: No

Content: Time at which medical control or responding EMS unit terminated resuscitation efforts (chest compressions and CPR) in the field

Discussion and Justification: Provides information concerning the duration of CPR in the field in cases in which the patient was pronounced dead in the field.

Business Rules: Complete only if Cardiac Arrest (E11_01) is 'Yes,'. Null to be accepted when record is not appropriate.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

If resuscitation was not discontinued it is appropriate to not collect this data the software vendor may opt to not include the data type in the XML.

73. Any Return of Spontaneous Circulation

Name of Data Element:	Any Return of Spontaneous Circulation			
Priority:	Desirable			
Definition:	Indication whether or not there was any return of spontaneous circulation at any time during the EMS events.			
National Element:	No			
NHTSA 2:	E11_06			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ReturnOfSpontaneousCirculation</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	2370	Yes, Prior to ED Arrival Only	2375	Yes, Prior to ED Arrival and at the ED

Content: Documents the return of spontaneous circulation during the EMS events.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the Return of Spontaneous Circulation associated with a cardiac arrest. Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response.

Business Rules: Complete only if Cardiac Arrest (E11_01) is 'Yes, ...'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11_01) is 'Yes, ...'. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: Replaces SOAR 1.0 field of Time Spontaneous Circulation

74. Possible Injury (Injury Present)

Name of Data Element:	Injury Present			
Priority:	Essential			
Definition:	Indicates that the reason for the EMS encounter was related to an injury or traumatic event.			
National Element:	Yes			
NHTSA 2:	E09_04			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>YesNoValue</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	1	Yes		

Content: Indicates that the reason for the EMS encounter was related to an injury or traumatic event. This data element provides documentation to classify the EMS Reason for Encounter as either injury or non-injury related based on mechanism and not on actual injury.

Discussion and Justification: Indicates whether or not the patient sustained injury in association with the incident type. The use of this data element will allow injuries to be tracked for non-traumatic incident categories (syncopal episode with injuries from the fall) as well as traditional traumatic incidents (Motor vehicle accident, shootings, etc.). Allows EMS data at the national level to be sorted based on traumatic vs. non-traumatic despite the incident type or primary impression. Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population.

Business Rules: All records submitted must have an Injury Present entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: Can be used to determine which records should have Section E10: Situation/ Trauma completed. If Injury Present (E09_04) is "Yes", Section E10 should be completed.

-25 Not Applicable

This is coded when an incident's disposition did not involve a patient contact.

75. Cause of Injury

Name of Data Element:	Cause of Injury		
Priority:	Essential		
Definition:	External cause of injury.		
National Element:	Yes		
NHTSA 2:	E10_01		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CauseOfInjury</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1885	Bites
9500	Aircraft Related Accident	9505	Bicycle Accident
9515	Chemical Poisoning	9520	Child Battering
9525	Drowning	9530	Drug Poisoning
9535	Electrocution (non-lighting)	9540	Excessive Cold
9545	Excessive Heat	9550	Falls
9555	Fire and Flames	9560	Firearm Assault
9565	Firearm Injury	9570	Firearm Self Inflicted
9575	Lightening	9580	Machinery Accident
9585	Mechanical Suffocation	9590	Motor Vehicle Non-traffic Accident
9595	Motor Vehicle Traffic Accident	9600	Motorcycle Accident
9605	Non-Motorized Accident	9610	Pedestrian Traffic Accident
9615	Radiation Exposure	9620	Rape
9625	Smoke Inhalation	9630	Stabbing / Cutting Accident
9635	Stabbing / Cutting Assault	9640	Stuck by Blunt / Thrown Object
9645	Venomous Stings	9650	Water Transport Accident

Content: Documents the injury cause.

Discussion and Justification: It is necessary to have a broad taxonomy for defining the external

causes of injury, and this data element is coded according to the E codes in ICD-9. However, it is recognized that the entire E code list is too cumbersome for field use, and the element may be collapsed into the categories, which have been listed above.

When possible, the E code should be defined in as much detail as is present in the E code definitions. Such codes will always be collapsible to the categories defined here, but the added detail will provide additional value to injury prevention researchers. It has been traditional to attempt to assign a single E code to individual incidents. Multiple entries, however, aids in gathering better detail about injuries, and to eliminate confusion when the EMS provider must choose between two reasonable E codes.

Business Rules: All records with Possible Injury (E09_04) marked ‘Yes’ must have a Cause of Injury entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system.. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: Complete only if Possible Injury (E09_04) is ‘Yes’.

76. Height of Fall

Name of Data Element:	Height of Fall
Priority:	Desirable
Definition:	The distance in feet the patient fell, measured from the lowest point of the patient to the ground.
National Element:	No
NHTSA 2:	E15_11
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>HeightOfFall</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: No Minimum Constraint = 1 Maximum Constraint = 50,000

Content: Distance in feet that patient is estimated to have fallen.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery. Used to better define injury cause and describe injury patterns within and EMS community.

Business Rules: Should be completed if records with Possible Injury (E09_04) marked ‘Yes’ and a fall (E15_01, value 9550) was documented. Records with an invalid entry will be marked as non-compliant by the system.

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML.

77. Intent of Injury

Name of Data Element:	Intent of Injury		
Priority:	Desirable		
Definition:	The intent of the individual inflicting the injury		
National Element:	No		
NHTSA 2:	E10_02		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>IntentOfInjury</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2020	Intentional, Other (Assault)
2025	Intentional, Self	2030	Unintentional (Accidental)

Content: The intent of the individual inflicting the injury.

Discussion and Justification: Identifies the intent of the injury to better determine the cause of the injury.

Business Rules: All records with Possible Injury (E09_04) marked 'Yes' must have an Intent of Injury entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system.. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: Complete only if Possible Injury (E09_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

78. Number of Patient at Scene

Name of Data Element:	Number of Patients at Scene			
Priority:	Essential			
Definition:	Indicator of how many total patients were at the scene.			
National Element:	Yes			
NHTSA 2:	E08_05			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NumberOfPatientsAtScene</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	1120	None
	1125	Single	1130	Multiple

Content: Indicator of how many total patients were at the scene.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the number of patients associated with the event and resources required. Allows data to describe the number of EMS events with multiple patient encounters

Business Rules: All records submitted must have a Number of Patients at Scene entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00)

Technical Comments: None.

79. Mass Casualty Incident

Name of Data Element:	Mass Casualty Incident			
Priority:	Essential			
Definition:	Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources)			
National Element:	Yes			
NHTSA 2:	E08_06			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NumberOfPatientsAtScene</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	1120	None
	1125	Single	1130	Multiple

Content: Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources).

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on a Mass Casualty Event. Allows data to describe the number of EMS events, which were declared a mass casualty event and is connected with disaster and domestic preparedness.

Business Rules: All records submitted must have a Mass Causality Incident entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00)

Technical Comments: None.

80. EMD Performed

Name of Data Element:	EMD Performed		
Priority:	Mandatory		
Definition:	Indication of whether EMD was performed for this EMS event.		
National Element:	Yes		
NHTSA 2:	E03_02		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>EMDPerformed</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	0	No
570	Yes, With Pre-Arrival Instructions	575	Yes, Without Pre-Arrival Instructions

Content: Indication of whether EMD was performed for this EMS event.

Discussion and Justification: Allows data to be sorted by the Dispatch Complaint. Allows data to describe Patient Complaint as reported by Dispatch.

Business Rules: All records submitted must have a EMD Performed entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments:

-25 Not applicable
This is to be coded if the dispatch center is known to not have an EMD program in use.

-5 Not Available
This is to be coded if the dispatch center is known to have an EMD program in use, but the provider is unaware if EMD was performed in the incident.

81. Complaint Reported by Dispatch

Name of Data Element:	Complaint Reported by Dispatch		
Priority:	Essential		
Definition:	The primary complaint reported to or received at dispatch		
National Element:	Yes		
NHTSA 2:	E03_01		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ComplaintReportedByDispatch</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	400	Abdominal
405	Allergies	410	Animal Bite
415	Assault	420	Back Pain
425	Breathing Problem	430	Burns
435	CO Poisoning/Hazmat	440	Cardiac Arrest
445	Chest Pain	450	Choking
455	Convulsions/Seizures	460	Diabetic Problem
465	Drowning	470	Electrocution
475	Eye Problem	480	Fall Victim
485	Headache	490	Heart Problem
495	Heat/Cold Exposure	500	Hemorrhage/Laceration
505	Industrial Accident/Inaccessible Incident/Other Entrapment (non-vehicle)	510	Ingestion/Poisoning
515	Pregnancy/Childbirth	520	Psychiatric Problem
525	Sick Problem	530	Stab/Gunshot Wound
535	Stroke/CVA	540	Traffic Accident
545	Traumatic Injury	550	Unconscious Fainting
555	Unknown Problem Man Down	560	Transfer/Interfacility/Palliative Care
565	Mass Casualty Incident		

Content: The primary complaint received by responding unit at dispatch.

Discussion and Justification: This data element is intended to capture the information provided to or obtained by the PSAP or dispatch center and transmitted to the EMS responder.

Business Rules: All records submitted must have a Complaint Reported by Dispatch entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments:

-10 *Not Known*

This is to be coded if no complaint was reported at dispatch or if the complaint was for an unknown problem. This is not to be used if self dispatched or alerted by other means and the reporter is aware of the type of problem they are responding to.

82. Primary Symptom

Name of Data Element:	Primary Symptom Present		
Priority:	Essential		
Definition:	Signs and symptoms reported to or observed by provider.		
National Element:	Yes		
NHTSA 2:	E09_13		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PrimarySymptom</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1405	Bleeding
1410	Breathing Problem	1415	Change in Responsiveness
1420	Choking	1425	Death
1430	Device/Equipment Failure	1435	Diarrhea
1440	Drainage / Discharge	1445	Fever
1450	Malaise	1455	Mass / Lesion
1460	Mental / Psych	1465	Nausea / Vomiting
1470	None	1475	Pain
1480	Palpitations	1485	Rash /Itching
1490	Swelling	1495	Transport Only
1500	Weakness	1505	Wound

Content: The primary sign and symptom present or observed by the provider.

Discussion and Justification: This data element is intended to capture the information provided to or obtained by the EMS responder in order to assess the patient. It is intended that these signs and symptoms be correlated with the clinical impression of the responder. This would help EMS managers plan educational programs for the responders.

Business Rules: All records submitted must have a Primary Symptom Present entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: None.

83. Other Associated Symptoms

Name of Data Element:	Other Associated Symptoms		
Priority:	Essential		
Definition:	Other symptoms reported to or observed by provider.		
National Element:	Yes		
NHTSA 2:	E09_14		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>OtherAssociatedSymptoms</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1510	Bleeding
1515	Breathing Problem	1520	Change in Responsiveness
1525	Choking	1530	Death
1535	Device/Equipment Failure	1540	Diarrhea
1545	Drainage / Discharge	1550	Fever
1555	Malaise	1560	Mass / Lesion
1565	Mental / Psych	1570	Nausea / Vomiting
1575	None	1580	Pain
1585	Palpitations	1590	Rash /Itching
1595	Swelling	1600	Transport Only
1605	Weakness	1610	Wound

Content: List any other symptom present or observed by the provider

Discussion and Justification: This data element is intended to capture the information provided to or obtained by the EMS responder in order to assess the patient. It is intended that these signs and symptoms be correlated with the clinical impression of the responder. This would help EMS managers plan educational programs for the responders.

Business Rules: All records submitted must have an Other Associated Symptom entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: None.

84. Provider Impression

Name of Data Element:	Provider Primary Impression		
Priority:	Essential		
Definition:	Provider's clinical impression, which led to the management given to the patient (treatments, medications, procedures).		
National Element:	Yes		
NHTSA 2:	E09_15		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ProvidersPrimaryImpression</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1615	Abdominal pain / problem
1620	Airway Obstruction	1625	Allergic reaction
1630	Altered Level of Consciousness	1635	Behavior / Psychiatric disorder
1640	Cardiac Arrest	1645	Cardiac Rhythm Disturbance
1650	Chest Pain / Discomfort	1655	Diabetic symptoms (hypoglycemia)
1660	Electrocution	1665	Hyperthermia
1670	Hypothermia	1675	Hypovolemia / Shock
1680	Inhalation Injury (Toxic gas)	1685	Obvious Death
1690	Poisoning / drug ingestion	1695	Pregnancy / OB delivery
1700	Respiratory Distress	1705	Respiratory Arrest
1710	Seizure	1715	Sexual Assault / Rape
1720	Smoke Inhalation	1725	Stings / Venomous bites
1730	Stroke / CVA	1735	Syncope / Fainting
1740	Traumatic injury	1745	Vaginal Hemorrhage

Content: The provider's impression of the patient's primary problem or most significant condition which led to the EMS management of the patient.

Discussion and Justification: This data element contains the single clinical assessment, which primarily drove the actions of the EMS responder. It should be possible to determine whether the treatments or medications provided match protocols, which relate to the clinical impression. When more than one choice is applicable to a patient, the responder should indicate the single most important clinical assessment that drove most of the plan of therapy and management.

It should be noted that this coding system differs from current systems. For instance, many EMS data sets include the entity, Animal Bite. In the uniform data set, such an entry should be coded in this field as a Traumatic Injury. The site of injury should be indicated in the injury field described later in this dictionary, showing the type (laceration or puncture) and site of the bite itself. In addition, the Cause of Injury should be coded as E906.x as discussed under the data element, Cause of Injury. For another example, Sexual Assault is coded in this data element in the same manner as a Traumatic Injury, but the Cause of Injury would be coded as E960.1, and Injury Intent would be coded as intentional. The reason for using this approach is to avoid overlapping, duplicative codes, which are not attached to a general taxonomy such as ICD9. Such codes would become agency specific and would not be flexible enough to permit combining data from different agencies. This list is comprised of the Federal Register Condition Codes.

Business Rules: All records submitted must have an Provider Primary Impression entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: None.

85. Providers Secondary Impression

Name of Data Element:	Provider's Secondary Impression		
Priority:	Essential		
Definition:	The EMS personnel's impression of the patient's secondary problem or which led to the management given to the patient.		
National Element:	Yes		
NHTSA 2:	E09_16		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ProvidersSecondaryImpression</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1750	Abdominal pain / problem
1755	Airway Obstruction	1760	Allergic reaction
1765	Altered Level of Consciousness	1770	Behavior / Psychiatric disorder
1775	Cardiac Arrest	1780	Cardiac Rhythm Disturbance
1785	Chest Pain / Discomfort	1790	Diabetic symptoms (hypoglycemia)
1795	Electrocution	1800	Hyperthermia
1805	Hypothermia	1810	Hypovolemia / Shock
1815	Inhalation Injury (Toxic gas)	1820	Obvious Death
1825	Poisoning / drug ingestion	1830	Pregnancy / OB delivery
1835	Respiratory Distress	1840	Respiratory Arrest
1845	Seizure	1850	Sexual Assault / Rape
1855	Smoke Inhalation	1860	Stings / Venomous bites
1865	Stroke / CVA	1870	Syncope / Fainting
1875	Traumatic injury	1880	Vaginal Hemorrhage

Content: The provider's impression of the patient's secondary problem or condition, which led to the EMS management of the patient.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the EMS personnel's clinical impression. Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem.

Business Rules: All records submitted must have a Provider's Secondary Impression entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: None.

86. Chief Complaint Anatomic Location

Name of Data Element:	Chief Complaint Anatomic Location		
Priority:	Essential		
Definition:	The primary anatomic location of the patient as identified by EMS personnel.		
National Element:	Yes		
NHTSA 2:	E09_11		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ComplaintAnatomicLocation</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1305	Abdomen
1310	Back	1315	Chest
1320	Extremity – Lower	1325	Extremity-Upper
1330	General/Global	1335	Genitalia
1340	Head	1345	Neck

Content: The primary anatomic location of the patient as identified by the EMS personnel.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on complaint location. Allows data to describe the patient's complaint location. A component of the EMS Medical Record: Patient Care Report. Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population.

Business Rules: All records submitted must have a Chief Complaint Anatomic Location entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: This is to be completed by EMS personnel without consideration to their certification level.

87. Chief Complaint Organ System

Name of Data Element:	Chief Complaint Organ System		
Priority:	Essential		
Definition:	The primary organ system of the patient injured or medically affected.		
National Element:	Yes		
NHTSA 2:	E09_12		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ComplaintOrganSystem</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1350	Cardiovascular
1355	CNS/Neuro	1360	Endocrine/Metabolic
1365	GI	1370	Global
1375	Musculoskeletal	1380	OB/Gyn
1385	Psych	1390	Pulmonary
1395	Renal	1400	Skin

Content: The primary organ system of the patient injured or medically affected.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the number of patients associated with the event and resources required. Allows data to describe the number of EMS events with multiple patient encounters. A component of the EMS Medical Record: Patient Care Report. Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population. Possible Injury (E09_04), Chief Complaint Anatomic Location (E09_11), Chief Complaint Organ System (E09_12), and Primary Symptom (E09_13) are required to calculate the Reason for Encounter.

Business Rules: All records submitted must have a Chief Complaint Organ System entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: This is to be completed by EMS personnel with a minimum of an EMT-Paramedic level of credentialing.

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it is unnecessary to document this element if the EMS personnel’s level of credentialing is not an EMT-Paramedic or higher .

88. Alcohol / Drug Use Indicators

Name of Data Element:	Alcohol / Drug Use Indicators		
Priority:	Essential		
Definition:	Indicator for the potential use of Alcohol or Drugs by the patient.		
National Element:	Yes		
NHTSA 2:	E12_19		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AlcoholDrugUseIndicators</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
2985	Smell of Alcohol on Breath	2990	Patient Admits to Alcohol Use
2995	Patient Admits to Drug Use	1150	Industrial Place and Premise
1155	Place of Recreation or Sport	3000	Alcohol and/or Drug Paraphernalia at Scene

Content: Identifies if any indicators of Alcohol or Drug use was noted with the care of the patient or at the incident.

Discussion and Justification: Important data element for injury research, permitting reports of value to public health researchers and policy makers.

Business Rules: All records submitted must have a Alcohol/Drug Use Indicators entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: Should be coded as yes whenever the EMS responder suspect's alcohol or drug use by the patient may have contributed to the incident. The uses of drugs or alcohol in isolation have been coded individually for epidemiological purposes and specific use should be coded appropriately when possible.

-10 Not Known

Not known documents that there was an attempt to obtain information but it was unknown by all parties involved.

-25 Not Applicable

Not applicable should be used when there is no patient, such as in a standby response. If alcohol or drugs are totally unrelated to the incident, this field should be coded as no.

89. Barriers to Patient Care

Name of Data Element:	Barriers to Patient Care		
Priority:	Essential		
Definition:	Indication of whether or not there were any patient specific barriers to serving the patient at the scene		
National Element:	Yes		
NHTSA 2:	E12_01		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>BarriersToPatientCare</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2600	Developmentally Impaired
2605	Hearing Impaired	2610	Language
2615	None	2620	Physically Impaired
2625	Physically Restrained	2630	Speech Impaired
2635	Unattended or Unsupervised (including minors)	2640	Unconscious

Content: Indication of whether or not there were any patient specific barriers to serving the patient at the scene

Discussion and Justification: A component of the EMS Medical Record. Allows data to be sorted based on any barriers to patient care. Allows data to describe any barriers to care within the EMS agency, which is important to many federal initiatives

Business Rules: All records submitted must have Barriers to Patient Care entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

Technical Comments: None

90. Injury Matrix External / Skin

Name of Data Element:	NTHSA Injury Matrix External /Skin		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the external body/Skin (including burns)		
National Element:	No		
NHTSA 2:	E15_01		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the external body or skin.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

This is a crucial data element, which will enable EMS planners to know what types of injuries are incurred by patients using the EMS system. The data element will also be of value in assessing the correspondence between injury assessment in the field and actual injuries as evaluated in medical facilities. A major reason for using ISS related body sites is the ability to compare the hospital inpatient ISS areas with those indicated by the prehospital provider.

It is understood that various levels of providers will be permitted to make injury assessments at different levels of sophistication. For example, the diagnosis of fracture is considered out of

scope for many prehospital responders. In this case, a term might be added for swelling, or some other marker by which an EMS responder is supposed to suspect a fracture or dislocation. It is stressed that this data element is supposed to reflect the clinical impression of injury by the EMS responder, not necessarily the final, correct medical diagnosis.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

91. Injury Matrix Head

Name of Data Element:	NTHSA Injury Matrix Head		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Head (excluding face, neck, cervical spine, and ear)		
National Element:	No		
NHTSA 2:	E15_02		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the head.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

92. Injury Matrix Face

Name of Data Element:	NTHSA Injury Matrix Face		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Face (including ear).		
National Element:	No		
NHTSA 2:	E15_03		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the face.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

93. Injury Matrix Neck

Name of Data Element:	NTHSA Injury Matrix Neck		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Neck		
National Element:	No		
NHTSA 2:	E15_04		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the neck.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

94. Injury Matrix Thorax

Name of Data Element:	NTHSA Injury Matrix Thorax		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Thorax (excluding the thoracic spine)		
National Element:	No		
NHTSA 2:	E15_05		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the thorax.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

95. Injury Matrix Abdomen

Name of Data Element:	NTHSA Injury Matrix Abdomen		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Abdomen (excluding the lumbar spine)		
National Element:	No		
NHTSA 2:	E15_06		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the abdomen.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

96. Injury Matrix Spine

Name of Data Element:	NTHSA Injury Matrix Spine		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Spine		
National Element:	No		
NHTSA 2:	E15_07		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the spine.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

97. Injury Matrix Upper Extremities

Name of Data Element:	NTHSA Injury Matrix Upper Extremities		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Upper Extremities		
National Element:	No		
NHTSA 2:	E15_08		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the upper extremities.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

98. Injury Matrix Pelvis

Name of Data Element:	NTHSA Injury Matrix Pelvis		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Pelvis		
National Element:	No		
NHTSA 2:	E15_09		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the pelvis.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

99. Injury Matrix Lower Extremities

Name of Data Element:	NTHSA Injury Matrix Lower Extremities		
Priority:	Desirable		
Definition:	Type of injury identified and associated with the Lower Extremities		
National Element:	No		
NHTSA 2:	E15_10		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on the lower extremities.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

100. Injury Matrix Unspecified

Name of Data Element:	NTHSA Injury Matrix Unspecified		
Priority:	Desirable		
Definition:	Type of injury identified and associated with Unspecified		
National Element:	No		
NHTSA 2:	E15_11		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

Content: Matrix of injuries noted on a previously unspecified area.

Discussion and Justification: Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

Technical Comments: If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

101. Safety Devices

Name of Data Element:	Safety Devices (Use of Occupant Safety Equipment)		
Priority:	Essential		
Definition:	Safety equipment in use by patient at time of injury.		
National Element:	No		
NHTSA 2:	E10_08		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>UseOfOccupantSafetyEquipment</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
2170	Child Restraint	2175	Eye Protection
2180	Helmet Worn	2185	Lap Belt
2187	None	2190	Other
2195	Personal Flotation Device	2200	Protective Clothing
2205	Protective Non-Clothing Gear	2210	Shoulder Belt

Content: List the safety equipment used by the patient at time of injury.

Discussion and Justification: Provides important information about safety device use in motor vehicle accidents, boating accidents, and industrial accidents with eye injuries. Data will be of use for corroboration of police reports concerning crashes.

Business Rules: Complete only if Possible Injury (E09_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

Technical Comments: If the EMS responder knows that no safety device was employed, then the data element should be coded as none. If none of the indicated devices was used, the element

should also be coded as none.

-25 *Not Applicable*

This is to be coded when no safety devices were indicated based on the nature of the call. This is not to be used if no patient contact was made.

102. Airbag Deployment

Name of Data Element:	Airbag Deployment		
Priority:	Essential		
Definition:	Indication of airbag deployment during the motor vehicle crash.		
National Element:	No		
NHTSA 2:	E10_09		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AirBagDeployment</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2215	No Airbag Present
2220	No Airbag Deployed	2225	Airbag Deployed Front
2230	Airbag Deployed Side	2235	Airbag Deployed Other

Content: Documents the deployment of airbags in the patient vehicle during a motor vehicle crash.

Discussion and Justification: Provides important information about airbag use and deployment in motor vehicle accidents. Data will be of use for corroboration of police reports concerning crashes.

Business Rules: Complete only if Possible Injury (E09_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

Technical Comments: If the EMS responder knows that no airbag device was present, then the data element should be coded as No Airbag Present. If the airbag was present but not deployed then the element should be coded as No Airbag Deployed.

-25 Not Applicable

This is to be coded when Possible Injury is 'Yes' and no airbag deployment were indicated based on the nature of the call. This is not to be used if Possible Injury is 'No'.

103. Motor Vehicle Impact

Name of Data Element:	Motor Vehicle Impact (Area of Vehicle Impacted by Collision)		
Priority:	Essential		
Definition:	Motor Vehicle Impact site during collision.		
National Element:	No		
NHTSA 2:	E10_05		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AreaOfVehicleImpact</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2100	Center Front
2105	Center Rear	2110	Left Front
2115	Left Rear	2120	Left Side
2125	Right Front	2130	Right Rear
2135	Right Side	2140	Roll Over

Content: Documents the site of impact during a motor vehicle collision.

Discussion and Justification: This data element provides information about the site of collision during a Motor Vehicle Impact, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

Business Rules: Complete only if Possible Injury (E09_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

Technical Comments:

-25 Not Applicable

This is to be coded when Possible Injury is 'Yes' and no Motor Vehicle Impact were indicated based on the nature of the call. This is not to be used if Possible Injury is 'No'.

104. Injury Indicators

Name of Data Element:	Injury Indicators		
Priority:	Essential		
Definition:	The kind of risk factor predictors associated with the vehicle involved in the incident.		
National Element:	No		
NHTSA 2:	E10_04		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>VehicularInjuryIndicators</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2055	Dash Deformity
2060	DOA Same Vehicle	2065	Ejection
2070	Fire	2075	Rollover / Roof Deformity
2080	Side Post Deformity	2085	Space Intrusion >1 foot
2090	Steering Wheel Deformity	2095	Windshield Spider/Star

Content: This data element is coded as a 2-position field that provides risk factor predictors present at the incident. Up to 3 Injury Indicators can be selected.

Discussion and Justification: This data element provides information about the Injury Indicators during a motor vehicle collision, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

Business Rules: Complete only if Possible Injury (E09_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

Technical Comments:

-25 *Not Applicable*

This is to be coded when Possible Injury is 'Yes' and no Injury Indicators applied. This is not to be used if the field is not appropriate for the incident.

105. Seat Row Location of Patient in Vehicle

Name of Data Element:	Seat Row Location of Patient in Vehicle
Priority:	Desirable
Definition:	The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.
National Element:	No
NHTSA 2:	E10_07
XML:	<p>XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>SeatRowLocation</i> Multiple Entry Configuration: No Accepts Null Values: no Required in XSD: No Minimum Constraint: 1 Maximum Constraint: 50</p> <p>If a value of 50 is passed, the location is designated "Cargo Area".</p>

Content: The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.

Discussion and Justification: This data element provides information about the location of a patient during a motor vehicle collision, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

Business Rules: Complete only if Possible Injury (E09_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

Technical Comments: Complete only if Possible Injury (E09_04) is "Yes". Numbered to take into account large vehicles such as buses or vans (1 = Front) or (Cargo Area = 50).

-25 *Not Applicable*

This is to be coded when Possible Injury is 'Yes' and no Seat Row Location applied. This is not to be used if the field is not appropriate for the incident.

106. Position of Patient in the Seat of the Vehicle

Name of Data Element:	Position of Patient in the Seat of the Vehicle		
Priority:	Desirable		
Definition:	The position of the patient in seat of the vehicle at the time of the crash.		
National Element:	No		
NHTSA 2:	E10_07		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PositionOfPatientInSeat</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2145	Driver
2150	Left (non-driver)	2155	Middle
2160	Other	2165	Right

Content: Documents the seat position a patient was in during a collision.

Discussion and Justification: This data element provides information about the seat location of a patient during a motor vehicle collision, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

Business Rules: Complete only if Possible Injury (E09_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

Technical Comments:

-25 *Not Applicable*

This is to be coded when Possible Injury is 'Yes' and no Seat Position applied. This is not to be used if the field is not appropriate for the incident.

107. Procedure – Date/Time Performed

Name of Data Element:	Procedure – Date/Time Performed
Priority:	Desirable
Definition:	The date and time the procedure was performed on the patient.
National Element:	No
NHTSA 2:	E19_01
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: No

Content: Time and date the procedure was performed.

Discussion and Justification: Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: All records must have a Procedure Successful value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z

108. Procedure – Crewmember Certification Number

Name of Data Element:	Procedure Crewmember Certification Number			
Priority:	Essential			
Definition:	The statewide assigned certification / licensure number of the EMS crewmember performing the procedure on the patient.			
National Element:	No			
NHTSA 2:	E19_09			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>CrewMemberID</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes, via structure Required in XSD: No Minimum Constraint = 2 Maximum Constraint = 15			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value

Content: The crewmember's certification/license number who performed the skill

Discussion and Justification: Part of an EMS Medical Record and to document the Procedure performance. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: All records must have a Procedure Crewmember Certification Number value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system

Technical Comments: XSD Structure: Members of E19_01_0 Procedure Structure. The Procedure Crewmember Certification Number entered must be present in the record in section E04_01.

109. Procedure or Treatment Name

Name of Data Element:	Procedure or Treatment Name		
Priority:	Essential		
Definition:	Identification of crewmember position and the procedure they attempted or performed on patient.		
National Element:	Yes		
NHTSA 2:	E19_03		
XML:	XSD Data Type: <i>xs:decimal</i> XSD Domain (Simple Type): <i>Procedure</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 1 Maximum Constraint: 1000		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	77.000	Not Listed
89.820	12 Lead EKG	93.930	Airway-Bagged
93.931	Airway-BVM	97.230	Airway-Change Tracheotomy Tube
98.130	Airway-Cleared	96.051	Airway-Combitube
93.900	Airway-CPAP	96.030	Airway-EOA/EGTA
96.991	Airway-Intubation Confirm CO2	96.992	Airway-Intubation Confirm Esophageal Bulb
96.052	Airway-Laryngeal Mask	96.010	Airway-Nasal
96.041	Airway-Nasotracheal Intubation	93.940	Airway-Nebulizer Treatment
31.110	Airway-Needle Cricothyrotomy	96.020	Airway-Oral
96.040	Airway-Orotracheal Intubation	96.790	Airway-PEEP
96.042	Airway-Rapid Sequence Induction	93.910	Airway-Respirator Operation (BLS)
98.150	Airway-Suctioning	31.120	Airway-Surgical Cricothyrotomy
96.700	Airway-Ventilator Operation	96.701	Airway-Ventilator with PEEP
38.910	Arterial Blood Draw	89.610	Arterial Line Maintenance

89.700	Assessment-Adult	89.701	Assessment-Pediatric
38.995	Blood Glucose Analysis	89.391	Capnography
89.510	Cardiac Monitor	99.624	Cardiac Pacing-External
99.626	Cardiac Pacing-Transvenous	99.623	Cardioversion
99.640	Carotid Massage	34.041	Chest Decompression
34.042	Chest Tube Placement	73.590	Childbirth
1.181	CNS Catheter-Epidural Maintenance	1.182	CNS Catheter-Intraventricular Maintenance
99.600	CPR	99.601	CPR by External Automated Device
86.280	Decontamination	99.621	Defibrillation-Automated (AED)
99.622	Defibrillation-Manual	99.625	Defibrillation-Placement for Monitoring/Analysis
100.200	Extrication	99.290	Injections-SQ/IM
37.611	Intra-Aortic Balloon Pump	93.580	MAST
96.070	Nasogastric Tube Insertion	89.590	Orthostatic Blood Pressure Measurement
89.702	Pain Measurement	89.392	Pulse Oximetry
100.100	Rescue	99.841	Restraints-Pharmacological
99.842	Restraints-Physical	93.591	Spinal Immobilization
93.540	Splinting-Basic	93.450	Splinting-Traction
89.703	Temperature Measurement	89.704	Thrombolytic Screen
57.940	Urinary Catheterization	38.990	Venous Access-Blood Draw
89.620	Venous Access-Central Line Maintenance	39.997	Venous Access-Discontinue
38.991	Venous Access-Existing Catheter	38.993	Venous Access-External Jugular Line
38.992	Venous Access-Extremity	38.994	Venous Access-Femoral Line
39.995	Venous Access-Internal Jugular Line	41.920	Venous Access-Intraosseous Adult
41.921	Venous Access-Intraosseous Pediatric	39.996	Venous Access-Subclavian Line
89.640	Venous Access-Swan Ganz Maintenance	93.057	Wound Care

Content: The procedure performed on the patient.

Discussion and Justification: Allows data to be sorted based on the medical treatment. Allows data to describe the procedures that are performed by EMS. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Intended to provide planners and educators with information about which procedures are conducted in the field, by whom, and for what indications. Procedures are defined here as anything done by way of assessment or treatment of the patient. Thus, application of a cervical collar is a treatment, use of a cardiac monitor is a tool of assessment, and drawing blood tubes is neither a specific treatment nor a means of field assessment. All of these would be considered procedures for purposes of this data element.

The North Dakota Department of Health, Division of EMS derived this list to track recognized procedures and treatments occurring in the field. Agencies should identify other procedures not listed as 'Other'.

Business Rules: All records must have a Procedure value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

Technical Comments: XSD Structure: Members of E19_01_0 Procedure Structure.

77.000 Other

This is to be coded when a crewmember does a procedure not listed in the data item list.

-25 Not Applicable

This is to be coded if a patient was encountered and did not receive any procedures or treatment. This is not to be used if no patient was encountered or the incident does not require entry of a procedure or treatment. When used this should be the only code submitted in the field.

110. Procedure Successful

Name of Data Element:	Procedure Successful			
Priority:	Essential			
Definition:	Indication of whether or not the procedure performed on the patient was successful			
National Element:	Yes			
NHTSA 2:	E19_06			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>YesNoValue</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	1	Yes		

Content: Documents if a procedure was completed successfully.

Discussion and Justification: Allows data to be sorted based on the medical treatment. Allows data to describe the procedures performed by EMS with respect to numbers and success rates. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: All records must have a Procedure Successful value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

Technical Comments: XSD Structure: Members of E19_01_0 Procedure Structure.

-25 Not applicable
This is to be coded if a procedure performed is such that Successfulness cannot be identified.

111. Number of Procedure Attempts

Name of Data Element:	Number of Procedure Attempts			
Priority:	Essential			
Definition:	The number of attempts taken to complete a procedure or intervention regardless of success.			
National Element:	Yes			
NHTSA 2:	E19_05			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NumberOfProcedureAttempts</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes Required in XSD: Yes			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0-100	Actual Number

Content: The number of attempts taken to complete a procedure or intervention regardless of success

Discussion and Justification: Allows data to describe the procedures, which are performed by EMS. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: All records must have a Number of Procedure Attempts value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

Technical Comments: XSD Structure: Members of E19_01_0 Procedure Structure.

-25 Not applicable
This is to be coded if a procedure performed is such that Attempts are not documented.

112. Procedure Complications

Name of Data Element:	Procedure Complications		
Priority:	Essential		
Definition:	Any complication associated with the performance of the procedure on the patient by EMS.		
National Element:	Yes		
NHTSA 2:	E19_07		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ProcedureComplication</i> Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	4500	None
4505	Altered Mental Status	4510	Apnea
4515	Bleeding	4520	Bradycardia
4525	Diarrhea	4530	Esophageal Intubation – immediately
4535	Esophageal Intubation-other	4540	Extravasation
4545	Hypertension	4550	Hyperthermia
4555	Hypotension	4560	Hypoxia
4565	Injury	4570	Itching/Urticaria
4575	Nausea	4580	Other
4585	Respiratory Distress	4590	Tachycardia
4595	Vomiting		

Content: Any complication associated with the performance of the procedure on the patient by EMS.

Discussion and Justification: Allows data to be sorted based on procedure complication. Allows data to describe procedure complications, which occur as a result of EMS treatment as part of a federal initiative to identify and reduce medical errors. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance

Business Rules: All records must have a Procedure Complications value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

Technical Comments: XSD Structure: Members of E19_01_0 Procedure Structure.

-25 Not applicable

This is to be coded if a procedure performed is such that Procedure Complications are not documented.

113. Procedure Authorization

Name of Data Element:	Procedure Authorization		
Priority:	Desirable		
Definition:	The type of procedure authorization obtained		
National Element:	No		
NHTSA 2:	E19_10		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): Procedure Authorization Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
4615	On-Line	4620	On Scene
4625	Protocol (Standing Order)	4630	Written Orders (Patient Specific)

Content: Documents the type of authorization obtained to perform the procedure

Discussion and Justification: Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance

Business Rules: All records must have a Procedure Authorization value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

Technical Comments: XSD Structure: Members of E19_01_0 Procedure Structure.

-25 Not applicable

This is to be coded if a procedure performed is such that Procedure Authorization is not documented.

114. Medication – Date/Time Administered

Name of Data Element:	Medication – Date/Time Administered
Priority:	Desirable
Definition:	The date/time medication administered to the patient
National Element:	No
NHTSA 2:	E18_01
XML:	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty Required in XSD: No

Content: Time and date the medication was administered.

Discussion and Justification: Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: All records must have a Medication – Date/Time Administered value entered for any medication administration reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

Technical Comments: Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.OZ

115. Medication – Crewmember Certification Number

Name of Data Element:	Medication Crewmember Certification Number			
Priority:	Essential			
Definition:	The statewide assigned ID number of the EMS crew member giving the treatment to the patient			
National Element:	No			
NHTSA 2:	E18_09			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>CrewMemberID</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes, via structure Required in XSD: No Minimum Constraint = 2 Maximum Constraint = 15			
Field Values:				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value

Content: The crewmember's certification/license number who administered the medication.

Discussion and Justification: Part of an EMS Medical Record and to document the medication administration. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: All records must have a Medication Crewmember Certification Number value entered for any medication administration reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system

Technical Comments: XSD Structure: Members of E18 Medication Structure. The Procedure Crewmember Certification Number entered must be present in the record in section E04_01.

116. Medication Name

Name of Data Element:	Medication Name		
Priority:	Essential		
Definition:	The medication given to the patient.		
National Element:	Yes, modified		
NHTSA 2:	E18_03		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>MedicationGiven</i> Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint = 2 Maximum Constraint = 30		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant indexes from Appendix D
Refer to Appendix D			

Content: Document the medication administered to the patient.

Discussion and Justification: Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Intended to provide planners and educators with information about which drugs are administered in the field, by whom, and for what indications. It is likely that each responder agency will have its own list of drugs, which are carried by the response vehicles, and this list should be used for the data collection efforts of that agency. The North Dakota Department of Health, Division of EMS derived this list to track recognized the current state approved list of medications being used in the field. It is not expected that every agency will permit its providers to use or carry all these drugs. Agencies that administer medications not listed should mark those as 'Other'.

Business Rules: All records must have a Medication Name value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

Technical Comments: At this time a national drug index or coding scheme, which would allow for a single code to be assigned to a single drug, does not exist. The Drug List may contain any generic or trade name of a drug approved by the FDA and administered by EMS. The transmission of a drug name as a string presents to be problematic in the proper collection of data. NEMSIS failed to provide a proper medication numbering schema for the accurate collection of medication data.

****The North Dakota Department of Health, Division of EMS derived this medication list with indexes to improve the reporting capability. It is expected that software vendors submit the corresponding medication index value and not send the medication name. The XML/XSD schema will not change, it will allow for the substitution of index value instead of name for this element.**

77 Other

This is to be coded for the medication when a crewmember administers a medication not listed in the data item list.

-25 Not Applicable

This is to be coded if an incident was encountered and there was no need to administer any medications.

117. Medication Complications

Name of Data Element:	Medication Complications		
Priority:	Essential		
Definition:	Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS.		
National Element:	Yes		
NHTSA 2:	E18_08		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>MedicationComplication</i> Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	4390	None
4395	Altered Mental Status	4400	Apnea
4405	Bleeding	4410	Bradycardia
4415	Diarrhea	4420	Extravasation
4425	Hypertension	4430	Hyperthermia
4435	Hypotension	4440	Hypoxia
4445	Injury	4450	Itching/Urticaria
4455	Nausea	4460	Other
4465	Respiratory Distress	4470	Tachycardia
4475	Vomiting		

Content: Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS.

Discussion and Justification: Allows data to be sorted based on medication complication. Allows data to describe medication complications, which occur as a result of EMS treatment. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Business Rules: All records must have a Medication Complications value entered for any medication administration reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an

invalid entry will be marked as non-compliant by the system.

Technical Comments: XSD Structure: Members of E18 Medication Structure.

-25 Not applicable

This is to be coded if a medication administered is such that Medication Complications are not documented.

118. Medication Authorization

Name of Data Element:	Medication Authorization		
Priority:	Desirable		
Definition:	The type of medication administration authorization obtained		
National Element:	No		
NHTSA 2:	E18_10		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): MedicationAuthorization Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes Required in XSD: No		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
4480	On-Line	4485	On Scene
4490	Protocol (Standing Order)	4495	Written Orders (Patient Specific)

Content: Documents the type of authorization obtained to administer the medication.

Discussion and Justification: Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance

Business Rules: All records must have a Medication Authorization value entered for any medication reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

Technical Comments: XSD Structure: Members of E18 Medication Structure.

-25 Not applicable

This is to be coded if a procedure performed is such that Medication Authorization is not documented.

119. Primary Method of Payment

Name of Data Element:	Primary Method of Payment		
Priority:	Essential		
Definition:	The primary method of payment or type of insurance associated with this EMS encounter.		
National Element:	Yes		
NHTSA 2:	E07_01		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PrimaryMethodOfPayment</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	720	Insurance
725	Medicaid	730	Medicare
735	Not Billed (for any reason)	740	Other Government
745	Self Pay	750	Workers Compensation

Content: The primary method of payment or type of insurance associated with this EMS encounter.

Discussion and Justification: A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the payer mix. Allows data to describe the EMS patient population's payer mix. Maybe collected electronically through linkage with a pre-existing Patient Care Report or hospital database.

Business Rules: All records submitted must have a Primary Method of Payment entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMSIS Section E00 (Common Null) field values.

120. Condition Code Number

Name of Data Element:	Condition Code Number		
Priority:	Essential		
Definition:	The condition codes are used to better describe the service and patient care delivery by an EMS service. Please consult CMS documentation for detailed descriptions of these condition codes and their use.		
National Element:	Yes		
NHTSA 2:	E07_35		
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>ConditionCodeNumber</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 30		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	8001	Severe Abdominal Pain
8002	Abdominal Pain (ALS-789.00)	8003	Abnormal Cardiac Rhythm/Cardiac Dysrhythmia (ALS-427.9)
8004	Abnormal Skin Signs (ALS-780.8)	8005	Abnormal Vital Signs (ALS-796.4)
8006	Allergic Reaction (ALS-995.0)	8007	Allergic Reaction (BLS-692.9)
8008	Blood Glucose (ALS-790.21)	8009	Respiratory Arrest (ALS-799.1)
8010	Difficulty Breathing (ALS-786.05)	8011	Cardiac Arrest-Resuscitation in Progress (ALS-427.5)
8012	Chest Pain (non-traumatic) (ALS-786.50)	8013	Choking Episode (ALS-784.9)
8014	Cold Exposure (ALS-991.6)	8015	Cold Exposure (BLS-991.9)
8016	Altered Level of Consciousness (non-traumatic) (ALS-780.01)	8017	Convulsions/Seizures (ALS-780.39)
8018	Eye Symptoms (non-traumatic) (BLS-379.90)	8019	Non Traumatic Headache (ALS-437.9)
8020	Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1)	8021	Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)
8022	Heat Exposure (ALS-992.5)	8023	Heat Exposure (BLS-992.2)

8024	Hemorrhage (ALS-459.0)	8025	Infectious Diseases requiring Isolation/Public Health Risk (BLS-038.9)
8026	Hazmat Exposure (ALS-987.9)	8027	Medical Device Failure (ALS-996.0)
8028	Medical Device Failure (BLS-996.3)	8029	Neurologic Distress (ALS-436.0)
8030	Pain (Severe) (ALS-780.99)	8031	Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)
8032	Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)	8033	Poisons (all routes) (ALS-977.9)
8034	Alcohol Intoxication or Drug Overdose (BLS-305.0)	8035	Severe Alcohol Intoxication (ALS-977.3)
8036	Post-Operative Procedure Complications (BLS-998.9)	8037	Pregnancy Complication/Childbirth/Labor (ALS-650.0)
8038	Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)	8039	Psychiatric/Behavioral (threat to self or others) (BLS-298.9)
8040	Sick Person-Fever (BLS-036.9)	8041	Severe Dehydration (ALS-787.01)
8042	Unconscious/Syncope/Dizziness (ALS-780.02)	8043	Major Trauma (ALS-959.8)
8044	Other Trauma (need for monitor or airway) (ALS-518.5)	8045	Other Trauma (major bleeding) (ALS-958.2)
8046	Other Trauma (fracture/dislocation) (BLS-829.0)	8047	Other Trauma (penetrating extremity) (BLS-880.0)
8048	Other Trauma (amputation digits) (BLS-886.0)	8049	Other Trauma (amputation other) (ALS-887.4)
8050	Other Trauma (suspected internal injuries) (ALS-869.0)	8051	Burns-Major (ALS-949.3)
8052	Burns-Minor (BLS-949.2)	8053	Animal Bites/Sting/Envenomation (ALS-989.5)
8054	Animal Bites/Sting/Envenomation (BLS-879.8)	8055	Lightning (ALS-994.0)
8056	Electrocution (ALS-994.8)	8057	Near Drowning (ALS-994.1)
8058	Eye Injuries (BLS-921.9)	8059	Sexual Assault (major injuries) (ALS-995.83)
8060	Sexual Assault (minor injuries) (BLS-995.8)	8061	Cardiac/Hemodynamic Monitoring Required (ALS-428.9)
8062	Advanced Airway Management (ALS-518.81)	8063	IV Meds Required (ALS-No ICD code provided))
8064	Chemical Restraint (ALS-	8065	Suctioning/Oxygen/IV fluids

	293.0)		required (BLS-496.0)
8066	Airway Control/Positioning Required (BLS-786.09)	8067	Third Party Assistance/Attendant Required (BLS-496.0)
8068	Patient Safety (restraints required) (BLS-298.9)	8069	Patient Safety (monitoring required) (BLS-293.1)
8070	Patient Safety (seclusion required) (BLS-298.8)	8071	Patient Safety (risk of falling off stretcher) (BLS-781.3)
8072	Special Handling (Isolation) (BLS-041.9)	8073	Special Handling (orthopedic device required) (BLS-907.2)
8074	Special Handling (positioning required) (BLS-719.45)		

Content: CMS condition codes.

Discussion and Justification: Allows data to be quantified and described based on the Condition Code. Allows data to be sorted based on the Condition Code. Important for EMS billing. A list of 95 Condition Codes which are mapped to ICD-9 Codes. The number of the Condition Code should be stored in this field. From the Center for Medicare and Medicaid Services (CMS) Ambulance Fee Schedule Condition Based Coding

Business Rules: All records submitted must have a Condition Code Number entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMESIS Section E00 (Common Null) field values.

121. Emergency Department Disposition

Name of Data Element:	Emergency Department Disposition		
Priority:	Essential		
Definition:	The known disposition of the patient from the Emergency Department (ED).		
National Element:	Yes		
NHTSA 2:	E22_01		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>EmergencyDepartmentDisposition</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	5335	Admitted to Hospital Floor
5340	Admitted to Hospital ICU	5345	Death
5350	Not Applicable (Not Transported to ED)	5355	Released
5360	Transferred		

Content: The known disposition of the patient from the Emergency Department (ED).

Discussion and Justification: Allows data to be sorted based on the EMS patient outcome. Allows data to describe EMS patient outcome. Could be collected by EMS Administration or electronically provided through linkage with hospital databases

Business Rules: All records submitted must have an Emergency Department Disposition entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMESIS Section E00 (Common Null) field values.

122. Hospital Disposition

Name of Data Element:	Hospital Disposition		
Priority:	Essential		
Definition:	Indication of how the patient was dispositioned from the hospital, if admitted.		
National Element:	Yes		
NHTSA 2:	E22_02		
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>HospitalDisposition</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
Field Values:			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	5365	Death
5370	Discharged	5375	Transfer to Hospital
5380	Transfer to Nursing Home	5385	Transfer to Other
5390	Transferred to Rehabilitation Facility		

Content: Indication of the patient's disposition at the hospital, if admitted.

Discussion and Justification: Allows data to be sorted based on the EMS patient outcome. Allows data to describe EMS patient outcome. Could be collected by EMS Administration or electronically provided through linkage with hospital databases

Business Rules: All records submitted must have a Hospital Disposition entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMSIS Section E00 (Common Null) field values.

123. Research Survey Field

Name of Data Element:	Research Survey Field
Priority:	None
Definition:	A customizable field to be used by local agencies for additional documentation or research.
National Element:	No
NHTSA 2:	E23_09
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>ResearchField</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: No Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 30

Content: A customizable field used to hold the value of data collected for additional documentation or research activity approved by or in conjunction with the North Dakota Department of Health, Division of EMS.

Discussion and Justification: The use of the research survey fields allow for the collection of data or documentation of issues related to research or short term evaluation

Business Rules: None.

Technical Comments: Submission should only be for data or documentation under the directive of the North Dakota Department of Health, Division of EMS. Data or documentation should be in the format identified at the time of the directive.

XSD Structure: Members of E23_09_0 Research Data Structure.

124. Research Survey Field Title

Name of Data Element:	Research Survey Field Title
Priority:	None
Definition:	A customizable field to be used by local agencies for additional documentation or research.
National Element:	No
NHTSA 2:	E23_11
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>ResearchTitle</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: No Required in XSD: No Minimum Constraint: 2 Maximum Constraint: 30

Content: A customizable field used to identify the source or title of the data collected in E23_09.

Discussion and Justification: The use of the research survey fields allow for the collection of data or documentation of issues related to research or short term evaluation.

Business Rules: None

Technical Comments: Submission should only be for data or documentation under the directive of the North Dakota Department of Health, Division of EMS. Data or documentation should be in the format identified at the time of the directive.
XSD Structure: Members of E23_09_0 Research Data Structure.

125. Software Creator

Name of Data Element:	Software Creator
Priority:	Mandatory
Definition:	The name of the software vendor by whom the data collection software was developed
National Element:	Yes
NHTSA 2:	E01_02
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SoftwareCreatedBy</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 3 Maximum Constraint: 32

Content: Simply the certified software vendor that collected the data and created the XML export.

Discussion and Justification: Important for grouping or comparing the accuracy of software used by EMS agencies in data collection.

Business Rules: All records submitted must have NEMSIS Silver compliant or greater certified Software Creator entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed.

126. Software Name

Name of Data Element:	Software Name
Priority:	Mandatory
Definition:	The name of the software package with which the data was collected by the agency.
National Element:	Yes
NHTSA 2:	E01_03
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SoftwareName</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 3 Maximum Constraint: 30

Content: Simply the name of the certified software package that collected the data and created the XML export.

Discussion and Justification: Important for grouping or comparing the accuracy of software used by EMS agencies in data collection.

Business Rules: All records submitted must have NEMSIS Silver compliant or greater certified Software Name entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed

127. Software Version

Name of Data Element:	Software Version
Priority:	Mandatory
Definition:	The version of the software used by the agency to collect the data
National Element:	Yes
NHTSA 2:	E01_04
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SoftwareVersion</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 3 Maximum Constraint: 30

Content: Simply the version number of the software package that collected the data and created the XML export.

Discussion and Justification: This should correspond to the NEMSIS certified version listed on the NEMSIS website. Important for grouping or comparing the accuracy of software used by EMS agencies in data collection.

Business Rules: All records submitted must have NEMSIS Silver compliant or greater certified Software Version entered. Records with missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed

Demographic Dataset

EMS Agency and typically only documented once then verified and updated yearly or when changed.

128. EMS Agency Number

Name of Data Element:	EMS Agency Number
Priority:	Mandatory
Definition:	The state-assigned provider number of the responding agency.
National Element:	Yes
NHTSA 2:	D01_01
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>EMSAgencyNumber</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 7 Maximum Constraint: 7
Field Values:	Refer to Appendix A (EMS Agency List) for Agency Number

Content: This element consists of the State assigned agency number or affiliate number of the responding agency.

Discussion and Justification: The state-assigned provider number of the responding agency. All EMS Agency demographic information is associated with the EMS agency number. A unique value must be provided to create a unique record ID within a database. The same as EMS Agency Number (E02_01). This could be used to auto fill E02_01 on the Patient Care Report. This data element is unique and is typically sequential

Business Rules: All demographic dataset submitted must have an EMS Agency Number entered. The Agency number must be from the approved agency list as published by the North Dakota Department of Health, Division of EMS. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: The first 2 digits are the agency's county of origin's numerical identifier, followed by the 5 digits of the agency's NDEMS license number. Not Nullable.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

129. EMS Agency State

Name of Data Element:	EMS Agency State
Priority:	Mandatory
Definition:	The state in which the Agency provides services.
National Element:	Yes
NHTSA 2:	D01_03
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>AgencyState</i> Multiple Entry Configuration: Yes Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 2
Field Values:	Refer to Appendix F 2 digit State FIPS Codes

Content: This element consists of the state primarily serviced or licensed in of the responding agency.

Discussion and Justification: For national submission to NEMESIS. Combines with Agency number (E02_01), agency state (D01_03), unit call sign (E02_12), patient number (E01_01) and date (E05_04) to create a unique identifier. Allows national reporting based on state.

Business Rules: All demographic dataset submitted must have an EMS Agency State entered. The State FIPS number must be from the approved State FIPS list as published by the North Dakota Department of Health, Division of EMS. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Consists of the 2-digit FIPS numeric code, not the State abbreviation. A unique value must be provided to create a unique record ID within a database.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

130. EMS Agency County

Name of Data Element:	EMS Agency County
Priority:	Mandatory
Definition:	The county(s) for which the agency formally provides service.
National Element:	Yes
NHTSA 2:	D01_04
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>AgencyCounty</i> Multiple Entry Configuration: Yes Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 2 Maximum Constraint: 2
Field Values:	Refer to Appendix E 2 digit County FIPS Code

Content: This element consists of the county(s) primarily serviced by the responding agency.

Discussion and Justification: For national submission to NEMSIS. Allows national reporting for coverage based on state and county.

Business Rules: All demographic dataset submitted must have one EMS Agency County entered. The County FIPS number must be from the approved FIPS list as published by the North Dakota Department of Health, Division of EMS. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Consists of the 8-digit FIPS numeric code, not the County name or abbreviation. A unique value must be provided to create a unique record ID within a database. Stored as an 8 digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

131. Level of Service

Name of Data Element:	Level of Service														
Priority:	Mandatory														
Definition:	The highest credentialed personnel's level of service which the agency provides for every EMS encounter if requested.														
National Element:	Yes														
NHTSA 2:	D01_07														
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>DemographicStateCertificationLicensureLevels</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes														
Field Values:															
<table border="1"> <tr> <td>6090</td> <td>EMT-Basic</td> <td>6100</td> <td>EMT-Intermediate</td> </tr> <tr> <td>6110</td> <td>EMT-Paramedic</td> <td>6111</td> <td>Nurse</td> </tr> <tr> <td>6112</td> <td>Physician</td> <td>6120</td> <td>First Responder</td> </tr> </table>				6090	EMT-Basic	6100	EMT-Intermediate	6110	EMT-Paramedic	6111	Nurse	6112	Physician	6120	First Responder
6090	EMT-Basic	6100	EMT-Intermediate												
6110	EMT-Paramedic	6111	Nurse												
6112	Physician	6120	First Responder												

Content: The highest credentialed personnel's level of service, which the agency provides for every EMS encounter if requested. In a tiered response system, this is the highest level of service, which could be sent to any specific call.

Discussion and Justification: Allows data to be sorted based on an agency's level of service. Provides description of EMS Personnel. Provides descriptive information when combined with an EMS Agency's Billing Status.

Business Rules: All demographic dataset submitted must have one Level of Service entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Consists of the field value corresponding to the appropriate level.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

132. Organizational Type

Name of Data Element:	Organizational Type			
Priority:	Mandatory			
Definition:	The organizational structure from which EMS services are delivered (fire, hospital, county, etc.)			
National Element:	Yes			
NHTSA 2:	D01_08			
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): OrganizationalType Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes			
Field Values:				
	5810	Community, Non-Profit	5820	Fire Department
	5830	Governmental, Non-Fire	5840	Hospital
	5850	Private, Non_Hospital	5860	Tribal

Content: Documents the organizational type of the EMS agency.

Discussion and Justification: Allows data to be sorted based on an agency's organizational structure. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have an Organization Type entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed.

133. Organizational Status

Name of Data Element:	Organizational Status								
Priority:	Mandatory								
Definition:	The primary organizational status of the agency. The definition of Volunteer or Non-Volunteer is based on state or local terms.								
National Element:	Yes								
NHTSA 2:	D01_09								
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): OrganizationalStatus Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes								
Field Values:									
<table border="1"> <tr> <td>5870</td> <td>Mixed</td> <td>5880</td> <td>Non-Volunteer</td> </tr> <tr> <td>5890</td> <td>Volunteer</td> <td></td> <td></td> </tr> </table>		5870	Mixed	5880	Non-Volunteer	5890	Volunteer		
5870	Mixed	5880	Non-Volunteer						
5890	Volunteer								

Content: Documents the organizational type of the EMS agency.

Discussion and Justification: Allows data to be sorted based on an agency's organizational status. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have an Organization Status entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed.

134. Statistical Year

Name of Data Element:	Statistical Year
Priority:	Mandatory
Definition:	The year to which the information pertains
National Element:	Yes
NHTSA 2:	D01_10
XML:	XSD Data Type: <i>xs:gYear</i> XSD Domain (Simple Type): StatisticalYear Multiple Entry Configuration: Yes, via structure Accepts Null Values: No Required in XSD: Yes

Content: Documents the organizational type of the EMS agency.

Discussion and Justification: Multiple entry configurations to allow statistical data to be entered yearly. Used to identify the year to which the data pertains. Associates a year with statistical data to improve reporting capabilities.

Business Rules: All demographic dataset submitted must have a Statistical Year entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Format as YYYY.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

135. Total Service Size Area

Name of Data Element:	Total Service Size Area
Priority:	Mandatory
Definition:	The total square miles in the agency's service area.
National Element:	Yes
NHTSA 2:	D01_12
XML:	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): TotalServiceSizeArea Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes Minimum Constraint = 1 Maximum Constraint = 100,000,000

Content: Documents the EMS agency's service area in total square miles.

Discussion and Justification: Allows data to be sorted based on an agency's area size. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have a Total Service Size Area entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Multiple entry configurations to allow statistical data to be entered yearly.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

136. Total Service Area Population

Name of Data Element:	Total Service Area Population
Priority:	Mandatory
Definition:	The total population in the agency's service area based on year 2000 census data (if possible).
National Element:	Yes
NHTSA 2:	D01_13
XML:	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): TotalServiceAreaPopulation Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes Minimum Constraint = 1 Maximum Constraint = 100,000,000

Content: The total population in the agency's service area based on year 2000 census data (if possible). This number does not include population changes associated with daily work flow or seasonal movements

Discussion and Justification: Allows data to be sorted based on an agency's service area population. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have a Total Service Area Population entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Baseline data should be taken from the 2000 Census data if possible. Multiple entry configurations to allow statistical data to be entered yearly.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

137. 911 Call Volume Per Year

Name of Data Element:	911 Call Volume Per Year
Priority:	Mandatory
Definition:	The number of 911 EMS calls for the calendar year
National Element:	Yes
NHTSA 2:	D01_14
XML:	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): CallVolumeYear911 Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes Minimum Constraint = 1 Maximum Constraint = 100,000,000

Content: Documents the EMS agency's number of 911 EMS calls for the calendar year.

Discussion and Justification: Allows data to be sorted based on an agency's 911 call volume per year. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have a 911 Call Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed.

138. EMS Dispatch Volume Per Year

Name of Data Element:	EMS Dispatch Volume Per Year
Priority:	Mandatory
Definition:	The number of EMS dispatches for the calendar year
National Element:	Yes
NHTSA 2:	D01_15
XML:	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): EMSDispatchVolumeYear Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes Minimum Constraint = 1 Maximum Constraint = 100,000,000

Content: Documents the EMS agency's number of EMS dispatches for the calendar year.

Discussion and Justification: Allows data to be sorted based on an agency's dispatch volume per year. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have an EMS Dispatch Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed.

139. EMS Transport Volume Per Year

Name of Data Element:	EMS Transport Volume Per Year
Priority:	Mandatory
Definition:	The number of EMS transport for the calendar year
National Element:	Yes
NHTSA 2:	D01_16
XML:	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): EMSTransportVolumeYear Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes Minimum Constraint = 1 Maximum Constraint = 100,000,000

Content: Documents the EMS agency's number of EMS transport for the calendar year.

Discussion and Justification: Allows data to be sorted based on an agency's transport volume per year. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have an EMS Transport Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed..

140. EMS Patient Contact Volume Per Year

Name of Data Element:	EMS Patient Contact Volume Per Year
Priority:	Mandatory
Definition:	The number of EMS patient contacts for that calendar year
National Element:	Yes
NHTSA 2:	D01_17
XML:	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): EMSPatientContactVolumeYear Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty Required in XSD: Yes Minimum Constraint = 1 Maximum Constraint = 100,000,000

Content: Documents the EMS agency's number of EMS patient contact for the calendar year.

Discussion and Justification: Allows data to be sorted based on an agency's patient contact volume per year. Provides description of EMS agencies across the nation.

Business Rules: All demographic dataset submitted must have an EMS Patient Contact Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed.

141. EMS Agency Time Zone

Name of Data Element:	EMS Agency Time Zone			
Priority:	Mandatory			
Definition:	The time zone for the EMS Agency.			
National Element:	Yes			
NHTSA 2:	D01_19			
XML:	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): EMSAgencyTimeZone Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes			
Field Values:				
	5900	GMT – 11:00 Midway Island, Samoa	5910	GMT – 10:00 Hawaii
	5920	GMT –09:00 Alaska	5930	GMT – 08:00 Pacific
	5940	GMT – 07:00 Mountain	5950	GMT – 06:00 Central
	5960	GMT – 05:00 Eastern	5970	GMT – 04:00 Atlantic

Content: Documents the time zone of the EMS agency.

Discussion and Justification: Allows data to be tracked in comparison to other systems and times to better correlate in any analysis.

Business Rules: All demographic dataset submitted must have an EMS Agency Time Zone entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: EMS Agency and typically only documented once then verified and updated yearly or when changed.

142. National Provider Identifier

Name of Data Element:	National Provider Identifier
Priority:	Mandatory
Definition:	The National Provider Identifier associated with National Provider System (NPS) .
National Element:	Yes
NHTSA 2:	D01_21
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>NationalProviderIdentifier</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes Minimum Constraint: 3 Maximum Constraint: 10

Content: The National Provider Identifier associated with National Provider System (NPS) and used in all standard HIPAA transactions such as electronic claim filing.

Discussion and Justification: For national submission to NEMESIS. Important for HIPAA related transactions such as electronic claims processing. The National Provider Identifier is associated with the EMS agency number.

Business Rules: All demographic dataset must have a National Provider Identifier entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Generated by the National Provider System within the United States Department of Health and Human Services. Collected by the EMS agency or auto-generated by the EMS agency specific software.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

143. Agency Contact Zip Code

Name of Data Element:	Agency Contact Zip Code
Priority:	Essential
Definition:	The ZIP code of the Agency contact's mailing address.
National Element:	Yes
NHTSA 2:	E02_07
XML:	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>DemographicZip</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes Minimum Constraint: 5 Maximum Constraint: 10

Content: The ZIP code of the Agency contact's mailing address.

Discussion and Justification: Allows data to be sorted into a geographical area. Component of the EMS Agency Contact Information/Address.

Business Rules: All demographic dataset must have an Agency Contact Zip Code entered. Records with a missing or an invalid entry will be rejected by the system.

Technical Comments: Only the United State Postal Service zip codes are accepted. Can be a 5 or 9 digits Zip Code.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

Appendixes

Appendix A

EMS Agency List

Agency No	Agency Name	Agency No	Agency Name
0001	Almont Ambulance Service	0113	Community Ambulance Svs - Rolla
0048	Altru Health System Ambulance Service	0088	Community Ambulance Svs. Inc. - Minot
0018	Ambulance Service, Inc.	0066	Community Volunteer Ambulance Svs - LaMoure
0002	Aneta Ambulance Service	0026	Cooperstown Ambulance Service
0003	Ashley Ambulance Service	0008	Coteau Properties Co. Ambulance Service
0125	Barnes County/City Ambulance	0009	Dakota Gasification Co. Ambulance Service
0143	Belcourt Ambulance Service	0029	Dickinson Area Ambulance Svs, Inc.
0005	Belfield Ambulance Service, Inc.	0027	Divide County Ambulance Service
0006	Berthold Ambulance Service, Inc.	0030	Drayton Volunteer Ambulance Association, Inc.
0084	Billings County Ambulance Service	0031	Edgeley Ambulance Service
0011	Binford Ambulance Service	0032	Edmore Volunteer Ambulance Service
0014	Bottineau Ambulance Service	0033	Ellendale Community Ambulance Service
0015	Bowbells Ambulance Service	0072	Emmons County Ambulance Service
0016	Bowdon Ambulance Service	0034	Esmond Community Ambulance Service
0017	Bowman Ambulance Squad, Inc.	0123	Falkirk Mining Company Ambulance Service
0020	Carpio Ambulance Service, Inc.	0036	Fessenden Ambulance Service
0021	Carrington Health Center Ambulance	0037	Finley Ambulance Service
0022	Carson Ambulance Service	0073	First Medic Ambulance of Ransom County, Inc.
0023	Casselton Ambulance Service, Inc.	0038	Flasher Ambulance Service
0024	Cavalier Ambulance Service, Inc.	0144	F-M Ambulance Service, Inc,
0122	Coal Creek Station Ambulance Service, GRE		
0095	Community Ambulance Svs – New Rockford		
0004	Community Ambulance Svs - Beach		

Agency No	Agency Name	Agency No	Agency Name
	WF Unit	0070	Leeds Ambulance Service
0035	F-M Ambulance Service, Inc.	0138	Lemmon EMT Assn.
0039	Fordville Ambulance Service	0071	Lidgerwood Community Ambulance Service
0042	Gackle Ambulance Service	0074	Maddock Ambulance Service
0043	Garrison Ambulance District	0146	Marmarth Ambulance Squad
0044	Glen Ullin Area Ambulance Service	0078	McClusky Rural Ambulance District
0045	Glenburn Area Ambulance Service, Inc.	0079	McHenry Ambulance Service
0145	Golden Heart EMS Ambulance Service	0080	McIntosh Volunteer Fire Dept Ambulance Service
0046	Goodrich Ambulance Service	0129	McKenzie County Ambulance Service
0049	Grenora Ambulance Service	0082	McVile Community Ambulance Service
0050	Halliday Ambulance Service	0083	Medina Ambulance Service
0051	Hankinson Volunteer Ambulance Service	0007	Mercer County Ambulance Service, Inc.
0052	Harvey Ambulance Service, Inc.	0053	Mercer County Ambulance Service, Inc.
0054	Hebron Ambulance Service	0012	Metro Area Ambulance Service, Inc.
0056	Hillsboro Ambulance Service	0139	Metro-Area Ambulance Service, Inc.
0058	Hope Ambulance Service	0085	Michigan Area Ambulance Service, Inc.
0059	Hunter Ambulance Service	0087	Minnewaukan Ambulance Service
0150	Jamestown Area Ambulance Service	0089	Mohall Ambulance Service
0061	Kenmare Ambulance Service	0090	Mott Ambulance Service
0117	Kidder County Ambulance Service	0091	Munich Rural Ambulance Service
0062	Killdeer Area Ambulance Service, Inc.	0092	Napoleon Ambulance Service
0063	Kindred Area Ambulance Service, Inc.	0093	New England Ambulance Service
0064	Kulm Ambulance Corps, Inc.	0094	New Leipzig Ambulance Service
0028	Lake Region Ambulance Service	0140	New Leipzig Ambulance Service - Elgin
0065	Lakota Ambulance Service	0096	New Salem Ambulance Service
0067	Langdon Ambulance Service		
0068	Lansford Ambulance Service		
0069	Larimore Ambulance Service, Inc.		

Air Services

0604 Bismarck Air Medical, LLC
0602 Merit Care LifeFlight
0603 Trinity Hospital – NorthStar Criticair
0650 Out of State Air Ambulance

Appendix B

Health Facility List

ID	Name	ID	Name
	Hospitals		
5082	Air Force Base - Grand Forks	5068	MeritCare South University
5081	Air Force Base - Minot	5047	Mountrail County Medical Center
5021	Altru Hospital	5035	Nelson County Health System
5057	Anne Carlsen School	5060	North Dakota State Hospital
5001	Ashley Medical Center	5040	Northwood Deaconess Health Center
5008	Carrington Health Center	5041	Oakes Community Hospital
5029	Cavalier County Memorial Hospital	5009	Pembina County Memorial Hospital
5063	Children's Psychiatric Hospital	5084	PHS Hospital - Fort Totten
5059	Community Memorial Hospital	5085	PHS Hospital - Fort Yates
5010	Cooperstown Medical Center	5086	PHS Hospital - New Town
5042	First Care Health Center	5045	Presentation Medical Center
5019	Garrison Memorial Hospital	5083	Quentin Burdick CHCF
5046	Heart of America Medical Center	5066	Richard P. Stadter Psychiatric Center
5062	Heartland Medical Center Island Park	5043	Richardton Health Center, Inc.
5016	Heartland Medical Center S. University	5024	Sakakawea Medical Center
5026	Hillsboro Medical Center Hospital	5064	SCCI Hospital - Central Dakotas
5067	Innovis Health	5065	SCCI Hospital - Fargo
5014	Jacobson Memorial Hospital Care Center	5006	Southwest Healthcare Services
5027	Jamestown Hospital	5004	St. Alexius Medical Center
5028	Kenmare Community Hospital	5023	St. Aloisius Medical Center
5030	Linton Hospital	5005	St. Andrew's Health Center
5031	Lisbon Area Health Services	5054	St. Joseph's Hospital & Health Center
5051	Mckenzie County Memorial Hospital	5011	St. Luke's Hospital
5003	Medcenter One, Inc.	5060	State Hospital
5056	Medical Center Rehab. Hospital	5048	Tioga Medical Center
5012	Mercy Hospital of Devils Lake	5061	Towner County Medical Center
5050	Mercy Hospital of Valley City	5036	Trinity - St. Josephs
5052	Mercy Medical Center	5055	Trinity Hospitals
5018	MeritCare Hospital	5034	Union Hospital
		5020	Unity Medical Center
		5080	Veterans Administration

ID	Name	ID	Name
5025	West River Regional Medical Center	1150	Lakota Good Samaritan Center
5053	Wishek Community Hospital	1153	Larimore Good Samaritan Center
		1159	Luther Memorial Home
		1166	Lutheran Home of the Good Shepherd
	Skilled Nursing Facility	1138	Lutheran Sunset Home
1101	Aneta Parkview Health Center	1161	Manorcare Health Services - Minot
1102	Arthur Good Samaritan Center	1130	Manorcare Health Services - Fargo
1103	Ashley Medical Center	1152	Maple Manor Care Center
1105	Baptist Home, Inc.	1137	Marian Manor Healthcare Center
1136	Benedictine Living Center of Garrison	1126	Maryhill Manor
1127	Bethany Homes	1158	Medcenter One Care Center
1187	Bethel Lutheran Home	1177	Medcenter One Golden Manor
1110	Bottineau Good Samaritan Center	1109	Medcenter One St. Vincents Care
1146	Central Dakota Village	1106	Medcenter One Subacute Care Unit
1117	Cooperstown Medical Center	1131	MeritCare Hospital TCU
1118	Crosby Good Samaritan Center	1107	Missouri Slope Lutheran Care Center
1157	Dacotah Alpha	1164	Mott Good Samaritan Nursing Center
1119	Devils Lake Good Samaritan Center	1176	Mountrail Bethel Home
1123	Dunseith Community Nursing Home	1165	Napoleon Care Center
1129	Elim Care Center	1160	Nelson County Health System Care Center
1167	Elm Crest Manor	1163	North Central Good Samaritan Center
1134	Four Seasons Health Care Center	1155	North Dakota Veterans Home
1135	Garrison Memorial Hospital Nursing Facility	1169	Northwood Deaconess Health Center
1115	Golden Acres Manor	1170	Oakes Manor Good Samaritan Center
1175	Heart of America Nursing Facility	1171	Osnabrock Good Samaritan Center
1120	Heartland Care Center	1172	Park River Good Samaritan Center
1147	Hi-Acres Manor Nursing Center	1156	Parkside Lutheran Home
1149	Hill Top Home of Comfort	1184	Pembilier Nursing Center
1144	Hillcrest Care Center	1180	Prairieview Health Care Center, Inc.
1145	Hillsboro Medical Center Nursing Home	1174	Presentation Care Center
1124	Jacobson Memorial Hospital Care Center	1125	Prince of Peace Care Center
1148	Kenmare Community Hospital SNU		
1104	Knife River Care Center		

ID	Name	ID	Name
1173	Rock View Good Samaritan Center	9506	Other EMS Entity
1132	Rosewood on Broadway	9999	Unspecified
1181	Sheyenne Care Center		
1182	Souris Valley Care Center		
1112	Southwest Healthcare Services		
1108	St. Alexius Transitional Care Unit		
1142	St. Aloisius Medical Center-LTC		
1121	St. Benedict's Health Center		Out of State
1183	St. Catherine's Living Center	5503	Canada - Other Hospitals
1141	St. Gerard's Community Nursing Home	5504	Colorado - Other Hospitals
1122	St. Luke's Home	5431	Denver Childrens -CO
1151	St. Rose Care Center	5430	University of Colorado -CO
1178	Strasburg Nursing Home	5400	Abbott Northwest -MN
1185	The Good Shepherd Home	5401	Abbott Northwest -MN
1179	Tioga Medical Center LTC	5402	Childrens Hospital -MN
1113	Towner County Living Center	5403	Hennepin County -MN
1143	Tri-County Retirement and Nursing Home	5500	Minnesota - Other Hospitals
1162	Trinity Homes	5404	North Memorial -MN
1139	Valley Eldercare Center	5405	Regional Hospital -MN
1133	Villa Maria Health Care	5088	St. Francis Medical Center -MN
1116	Wedgewood Manor	5406	St. Marys Regional -MN
1186	Westhope Home	5407	University of Minnesota -MN
1188	Wishek Home for the Aged	5502	Montana - Other Hospitals
1140	Woodside Village	5420	Avera Mckennan -SD
		5421	Avera St. Lukes -SD
		5422	Mobridge - SD
		5423	Rapid City Regional -SD
		5424	Sious Valley -SD
		5501	South Dakota - Other Hospitals
		5090	Other Out of State
	Other Destinations		
9500	Law Enforcement/Police		
9501	Long Term Care Facility		
9502	Residence		
9503	Other Acute Care Medical Facility		
9504	Morgue/Funeral Home/Coronor		
9505	Clinic/Doctor's Office		

Appendix C

North Dakota City FIPS

FIPS ID	Name	FIPS ID	Name
	Adams County	01780	Alta (Township of)
02980	Argonne (Township of)	02300	Anderson (Township of)
05700	Beisigl (Township of)	03580	Ashtabula (Township of)
10300	Bucyrus	04340	Baldwin (Township of)
10340	Bucyrus (Township of)	06140	Berea
13100	Cedar (Township of)	07100	Binghampton (Township of)
13270	Central Adams	09420	Brimer (Township of)
13500	Chandler (Township of)	17260	Cuba
14620	Clermont (Township of)	17300	Cuba (Township of)
18100	Darling Springs (Township of)	17670	Daily
20700	Duck Creek (Township of)	18340	Dazey
21495	East Adams	18380	Dazey (Township of)
30340	Gilstrap (Township of)	21540	Eastedge
36540	Haynes	21780	Eckelson
37700	Hettinger	21820	Eckelson (Township of)
37740	Hettinger (Township of)	22460	Edna (Township of)
38420	Holden	23500	Ellsbury (Township of)
45895	Lemmon	26380	Fingal
46500	Lightning Creek (Township of)	30060	Getchell (Township of)
49780	Maine (Township of)	32340	Grand Prairie (Township of)
57940	North Lemmon	33020	Green (Township of)
57980	North Lemmon (Township of)	33380	Greenland (Township of)
59620	Orange (Township of)	36020	Hastings
62020	Petrel	37180	Hemen (Township of)
65900	Reeder	38300	Hobart (Township of)
65940	Reeder (Township of)	41500	Kathryn
71380	Scott (Township of)	43380	Koldok
74140	South Fork (Township of)	43980	Lake Town (Township of)
78220	Taylor Butte (Township of)	45460	Leal
85380	Whetstone (Township of)	47140	Litchville
87140	Wolf Butte (Township of)	48380	Lucca
41060	Jordan (Township of)	50340	Mansfield (Township of)
	Barnes County	50900	Marsh (Township of)

FIPS ID	Name	FIPS ID	Name
51700	Meadow Lake (Township of)	03860	Aurora (Township of)
53340	Minnie Lake (Township of)	04260	Baker
55820	Nelson (Township of)	05620	Beaver (Township of)
57140	Noltimier (Township of)	09460	Brinsmade
57180	Nome	09740	Broe (Township of)
57420	Norma (Township of)	11260	Butte Valley (Township of)
58170	North Valley City	15580	Comstock
58780	Oakhill (Township of)	21620	East Fork (Township of)
59660	Oriska	22780	Eldon (Township of)
59700	Oriska (Township of)	24780	Esmond
61300	Peak	24820	Esmond (Township of)
62460	Pierce (Township of)	26300	Fillmore
62540	Pillsbury	26780	Flora
64020	Potter (Township of)	27700	Fort Totten
65380	Raritan (Township of)	27750	Fort Totten
67620	Rogers	35460	Harlow
67660	Rogers (Township of)	37620	Hesper
68140	Rosebud (Township of)	37660	Hesper (Township of)
70380	Sanborn	39860	Impark (Township of)
72820	Sibley	40180	Iowa (Township of)
72940	Sibley Trail (Township of)	40220	Irvine (Township of)
73500	Skandia (Township of)	40265	Isabel
74900	Spring Creek (Township of)	40260	Isabel (Township of)
75100	Springvale (Township of)	41100	Josephine
76020	Stewart (Township of)	43260	Knox
77300	Svea (Township of)	43300	Knox (Township of)
78700	Thordenskjold (Township of)	43900	Lake Ibsen (Township of)
79340	Tower City	44380	Lallie
80940	Urbana	44420	Lallie (Township of)
80980	Uxbridge (Township of)	44425	Lallie North
81080	Valley (Township of)	45580	Leeds
81180	Valley City	45620	Leeds (Township of)
81220	Valley City (sta.)	47620	Lohnes (Township of)
84220	Weimer (Township of)	49620	Maddock
86620	Wimbledon	48980	McClellan (Township of)
28180	Frazier	53060	Minco (Township of)
		53220	Minnewaukan
	Benson County	53580	Mission (Township of)
00980	Albert (Township of)	56900	Niles
03180	Arne (Township of)	57580	Normania (Township of)

FIPS ID	Name	FIPS ID	Name
48060	Lordsburg (Township of)	08700	Bowman
51420	Maxbass	08740	Bowman (Township of)
54900	Mount Rose (Township of)	08820	Boyesen (Township of)
55940	Newborg (Township of)	10380	Buena Vista (Township of)
56020	Newburg	10500	Buffalo Springs
58700	Oak Creek (Township of)	26540	Fischbein (Township of)
58860	Oak Valley (Township of)	29540	Gascoyne
59420	Omeme	29580	Gascoyne (Township of)
60180	Ostby (Township of)	29740	Gem (Township of)
60380	Overly	31300	Goldfield (Township of)
61180	Peabody (Township of)	31940	Grainbelt (Township of)
62300	Pickering (Township of)	32460	Grand River (Township of)
66105	Renville	33620	Griffin
66100	Renville (Township of)	34265	Haley
66540	Richburg (Township of)	34260	Haley (Township of)
67740	Roland (Township of)	35780	Hart
68620	Roth	40420	Ives
69180	Russell	43700	Ladd (Township of)
71060	Scandia (Township of)	44740	Langberg (Township of)
71340	Scotia (Township of)	50740	Marion (Township of)
71820	Sergius (Township of)	53140	Minnehaha (Township of)
72500	Sherman (Township of)	55580	Nebo (Township of)
74020	Souris	61420	Peerless Mine
75500	Starbuck (Township of)	66300	Rhame
76260	Stone Creek (Township of)	66340	Rhame (Township of)
77740	Tacoma (Township of)	71500	Scranton
78040	Tasco	71540	Scranton (Township of)
79790	Truro	75460	Star (Township of)
83980	Wayne (Township of)	76140	Stillwater (Township of)
84340	Wellington (Township of)	77060	Sunny Slope (Township of)
85020	Westhope	77900	Talbot (Township of)
85260	Wheaton (Township of)	84650	West Bowman
85420	Whitby (Township of)	85780	Whiting (Township of)
85455	White		
85860	Whitteron (Township of)		Burke County
86380	Willow City	03610	Atcoal
86500	Willow Vale (Township of)	05340	Battleview
	Bowman	05380	Battleview (Township of)
00540	Adelaide (Township of)	08500	Bowbells
02140	Amor (Township of)	08540	Bowbells (Township of)

FIPS ID	Name	FIPS ID	Name
12500	Carter (Township of)	81020	Vale (Township of)
14300	Clayton (Township of)	81500	Vanville (Township of)
14500	Cleary (Township of)	83420	Ward (Township of)
15460	Columbus	87060	Woburn
15500	Colville (Township of)	41340	Kaniyohi (Township of)
16180	Coteau		
17740	Dale (Township of)		Burleigh County
19660	Dimond (Township of)	02780	Apple Creek (Township of)
25940	Fay (Township of)	02820	Apple Valley
26700	Flaxton	02940	Arena
26940	Foothills (Township of)	03270	Arnold
27460	Forthun (Township of)	04380	Baldwin
29380	Garness (Township of)	07200	Bismarck
35540	Harmonious (Township of)	07207	Bismarck Bomb Scoring Site
41280	Kandiyohi (Township of)	07215	Bismarck Municipal Airport
41660	Keller (Township of)	08780	Boyd (Township of)
42740	Kincaid	09590	Brittin
44020	Lakeview (Township of)	11045	Burnt Creek-Riverview
45220	Larson	11940	Canfield (Township of)
45420	Leaf Mountain (Township of)	14060	Christiania (Township of)
46540	Lignite	14380	Clear Lake (Township of)
46580	Lignite Junction	16860	Crofte (Township of)
48420	Lucy (Township of)	16900	Cromwell (Township of)
53180	Minnesota (Township of)	19970	Double Ditch Indian Village
57715	North Burke	20500	Driscoll
58140	North Star (Township of)	20540	Driscoll (Township of)
57860	Northgate	21860	Ecklund (Township of)
61700	Perella	24940	Estherville (Township of)
63740	Portal	26860	Florence Lake (Township of)
63780	Portal (Township of)	27500	Fort Lincoln (Indian Training Center)
64140	Powers Lake		
66580	Richland (Township of)	28100	Francis (Township of)
66860	Rival	30100	Ghylin (Township of)
66900	Rival Junction	30140	Gibbs (Township of)
68340	Roseland (Township of)	30900	Glenview (Township of)
72740	Short Creek (Township of)	30980	Glenwood Estates
73900	Soo (Township of)	32740	Grass Lake (Township of)
74620	Spiral	33060	Green Acres Estates
75220	Stampede	35670	Harriet-Lein (Township of)
78780	Thorson (Township of)	36460	Hay Creek (Township of)

FIPS ID	Name	FIPS ID	Name
36660	Hazel Grove (Township of)	87080	Wogansport
46640	Lincoln	11040	Burnt Creek (Township of)
46710	Lincoln-Fort Rice	84655	West Burleigh
47500	Logan (Township of)	27540	Fort Lincoln Estates
47860	Long Lake (Township of)	07203	Bismarck
48620	Lyman	27670	Fort Rice (Township of)
51180	Mary College	46645	Lincoln
49340	McKenzie	10900	Burleigh (Menoken)
49380	McKenzie (Township of)	21510	East Burleigh
52180	Menoken (Burleigh)	66650	Richmond
52220	Menoken (Township of)	35660	Harriet (Township of)
52815	Midway	45780	Lein (Township of)
53620	Missouri (Township of)		
53740	Moffit (BN RR name Moffitt)		Cass County
54460	Morton (Township of)	00180	Absaraka
55540	Naughton (Township of)	00460	Addison
60580	Painted Woods (Township of)	00500	Addison (Township of)
62160	Phoenix	01420	Alice
62500	Pierce	01940	Amenia
63540	Ponderosa	01980	Amenia (Township of)
64380	Prairie View Acres	03020	Argusville
65980	Regan	03300	Arthur
66635	Richmond (Township of)	03340	Arthur (Township of)
67420	Rock Hill (Township of)	04020	Ayr
71220	Schrunk (Township of)	04060	Ayr (Township of)
72900	Sibley Butte (Township of)	04900	Barnes (Township of)
75820	Steiber (Township of)	05900	Bell (Township of)
75900	Sterling	06260	Berlin (Township of)
75940	Sterling (Township of)	09320	Briarwood
76100	Still	09830	Brooktree Park
77780	Taft (Township of)	10420	Buffalo
78300	Telfer (Township of)	10460	Buffalo (Township of)
78580	Thelma (Township of)	12700	Casselton
79820	Trygg (Township of)	12740	Casselton (Township of)
80540	Tyler's Western Village	13340	Chaffee
85980	Wild Rose (Township of)	14780	Clifton (Township of)
86540	Wilson (Township of)	16100	Cornell (Township of)
86580	Wilton	17820	Dalrymple Spur
86780	Wing	18180	Davenport
86820	Wing (Township of)	18220	Davenport (Township of)

FIPS ID	Name	FIPS ID	Name
20220	Dows (Township of)	50620	Mapleton (Township of)
21060	Durbin	51300	Mason
21100	Durbin (Township of)	55260	Myra
22860	Eldred (Township of)	56460	Newman
24020	Embden	57020	Noble (Township of)
24140	Empire (Township of)	57100	Nolan
24260	Enderlin	57535	Norman
24620	Erie	57620	Normanna (Township of)
24660	Erie (Township of)	57660	Norpak
24700	Erie Junction	58120	North River
25025	Everest	60480	Oxbow
25020	Everest (Township of)	60500	Page
25700	Fargo	60540	Page (Township of)
25740	Fargo (Township of)	62700	Pinkham
26260	Fife	63100	Pleasant (Township of)
28720	Frontier	63580	Pontiac (Township of)
29220	Gardner	64320	Prairie Rose
29260	Gardner (Township of)	64780	Prosper
30260	Gill (Township of)	65620	Raymond (Township of)
32300	Grandin	65860	Reed (Township of)
33820	Gunkel (Township of)	66040	Reile's Acres
35580	Harmony (Township of)	66460	Rich (Township of)
35940	Harwood	67260	Rochester (Township of)
35980	Harwood (Township of)	69020	Rush River (Township of)
37780	Hickson	69780	St. Benedict
37900	Highland (Township of)	75340	Stanley (Township of)
38060	Hill (Township of)	79300	Tower (Township of)
38900	Horace	79340	Tower City
39140	Howes (Township of)	81340	Vance
39460	Hunter	82740	Walburg (Township of)
39500	Hunter (Township of)	82860	Walden
42780	Kindred	83460	Warren
42980	Kinyon (Township of)	83500	Warren (Township of)
43780	Lake (Township of)	83940	Watson (Township of)
45980	Leonard	85180	Wheatland
46020	Leonard (Township of)	85220	Wheatland (Township of)
48625	Lynchburg	85940	Wild Rice
49700	Magnolia	86980	Wiser (Township of)
50540	Maple River (Township of)	87500	Woods
50580	Mapleton	84820	West Fargo (sta.) (Riverside)

FIPS ID	Name	FIPS ID	Name
84860	West Fargo Industrial Park	46940	Linden (Township of)
84780	West Fargo	47380	Loam (Township of)
74500	South West Fargo	47660	Loma
36920	Hector Field (Airport)	49740	Maida
75660	State University (North Dakota Sate Univ.)	50100	Manilla (Township of)
67060	Riverside (RR name West Fargo (sta.))	53020	Milton
	Cavalier County	53500	Minto (Township of)
01660	Alma (Township of)	54060	Montrose (Township of)
01740	Alsen	54500	Moscow (Township of)
04660	Banner (Township of)	54780	Mount Carmel
06940	Billings (Township of)	54820	Mount Carmel (Township of)
09900	Bruce (Township of)	55020	Munich
11460	Byron (Township of)	55740	Nekoma
11580	Calio	55780	Nekoma (Township of)
11700	Calvin	58020	North Loma (Township of)
14940	Clyde	58060	North Olga (Township of)
17580	Cypress (Township of)	59220	Olga
20420	Dresden	59980	Oxford (Township of)
20460	Dresden (Township of)	60100	Osnabrock
21420	Easby	60140	Osnabrock (Township of)
21460	Easby (Township of)	61740	Perry (Township of)
21500	East Alma (Township of)	70780	Sarles
22980	Elgin (Township of)	71620	Seivert (Township of)
28540	Fremont (Township of)	74100	South Dresden (Township of)
30780	Glenila (Township of)	74300	South Olga (Township of)
31620	Gordon (Township of)	76380	Storlie (Township of)
33580	Grey (Township of)	79540	Trier (Township of)
34980	Hanks Corner	80700	Union
35060	Hannah	81375	Vang
35860	Harvey (Township of)	82940	Wales
36420	Hay (Township of)	83820	Waterloo (Township of)
37220	Henderson (Township of)	84060	Weaver
38820	Hope (Township of)	85060	West Hope (Township of)
38980	Hove Mobile Park		Dickey County
39660	Huron (Township of)	00300	Ada (Township of)
44780	Langdon	01020	Albertha (Township of)
44820	Langdon (Township of)	01060	Albion (Township of)
		05500	Bear Creek (Township of)
		14545	Clement

FIPS ID	Name	FIPS ID	Name
14540	Clement (Township of)	87940	Yorktown (Township of)
19700	Divide (Township of)	87980	Young (Township of)
20650	Duane		
22740	Elden (Township of)		Divide County
23220	Ellendale	01300	Alexandria (Township of)
23260	Ellendale (Township of)	01500	Alkabo
23540	Elm (Township of)	01860	Ambrose
26980	Forbes	01900	Ambrose (Township of)
28780	Fullerton	07900	Blooming Prairie (Township of)
29900	German (Township of)	07940	Blooming Valley (Township of)
31020	Glover	08340	Border (Township of)
32500	Grand Valley (Township of)	08470	Bounty
33780	Guelph	10780	Burg (Township of)
34500	Hamburg (Township of)	14900	Clinton (Township of)
39220	Hudson (Township of)	15020	Coalfield (Township of)
40540	James River Valley (Township of)	15260	Colgan
42300	Kent (Township of)	16940	Crosby
42340	Kentner (Township of)	17940	Daneville (Township of)
42500	Keystone (Township of)	19500	De Witt (Township of)
48140	Lorraine (Township of)	23140	Elkhorn (Township of)
48260	Lovell (Township of)	26140	Fertile Valley (Township of)
48460	Ludden	26340	Fillmore (Township of)
50500	Maple (Township of)	27820	Fortuna
52460	Merricourt	27830	Fortuna Air Force Station
53820	Monango	28220	Frazier (Township of)
53860	Monango Crossing	28340	Frederick (Township of)
58220	Northwest (Township of)	29420	Garnet (Township of)
58500	Norway	31580	Gooseneck (Township of)
58740	Oakes	36300	Hawkeye (Township of)
63820	Port Emma (Township of)	36500	Hayland (Township of)
63860	Porter (Township of)	41270	Juno
63980	Potsdam (Township of)	42410	Kermit
66940	Riverdale (Township of)	46740	Lincoln Valley (Township of)
75140	Spring Valley (Township of)	47780	Long Creek (Township of)
81100	Valley (Township of)	52260	Mentor (Township of)
81460	Van Meter (Township of)	57220	Noonan
85700	Whitestone (Township of)	60700	Palmer (Township of)
86920	Wirsch	61135	Paulson
87620	Wright (Township of)	63340	Plumer (Township of)
		73420	Sioux Trail (Township of)

FIPS ID	Name	FIPS ID	Name
73700	Smoky Butte (Township of)	20860	Dundas
75170	Stady	21980	Eddy (Township of)
76300	Stoneview (Township of)	28420	Freeborn (Township of)
79660	Troy (Township of)	29700	Gates (Township of)
80260	Twin Butte (Township of)	32020	Grandfield (Township of)
80900	Upland (Township of)	34420	Hamar
84665	Westby	38180	Hillsdale (Township of)
84660	Westby (Township of)	44100	Lake Washington (Township of)
87660	Writing Rock (Township of)	55060	Munster
	Dunn County	55100	Munster (Township of)
19820	Dodge	56620	New Rockford
20940	Dunn Center	56660	New Rockford (Township of)
24080	Emerson	60740	Paradise (Township of)
25950	Fayette	63220	Pleasant Prairie (Township of)
27330	Fort Berthold	68180	Rosefield (Township of)
27340	Fort Berthold Indian Reservation	72140	Sheldon (Township of)
34340	Halliday	72580	Sheyenne
34350	Halliday	77140	Superior (Township of)
38270	Hirschville	78860	Tiffany (Township of)
42700	Killdeer	27780	Fort Totten Indian Reservation
42705	Killdeer	74640	Spirit Lake Reservation
50220	Manning	19445	Devils Lake Sioux Indian Reservation
50940	Marshall	17000	Crow Hill (District)
51825	Medicine Hole	87430	Wood Lake (District)
56340	New Hradec		Emmons County
58720	Oakdale	08900	Braddock
74105	South Dunn	10140	Buchanan Valley (Township of)
80300	Twin Buttes	11780	Campbell (Township of)
84460	Werner	17860	Dana
49960	Mandaree (Segment)	17900	Danbury (Township of)
80310	Twin Buttes (Segment)	32785	Grassna
	Eddy County	34180	Hague
09140	Brantford	35260	Harding (Township of)
11140	Bush (Township of)	36700	Hazelton
13820	Cherry Lake (Township of)	36740	Hazelton (Township of)
15420	Columbia (Township of)	39380	Hull
15540	Colvin (Township of)	42940	Kintyre
19705	Divide	46650	Lincoln (Township of)

FIPS ID	Name	FIPS ID	Name
46980	Linton	57380	Nordmore (Township of)
47340	Livona	67900	Rolling Prairie (Township of)
49100	McCulley (Township of)	68300	Rose Hill (Township of)
57730	North Emmons	87700	Wyand (Township of)
57725	Northeast Emmons		
74120	South Emmons		
76500	Strasburg	05420	Golden Valley County Beach
76820	Sueltz Spur	05460	Beach (Township of)
78340	Tell (Township of)	10660	Bullion (Township of)
78420	Temvik	13440	Chama
84668	West Emmons	18940	De Mores
84900	Westfield	18900	Delhi (Township of)
87300	Wood (Township of)	21665	East Golden Valley
64340	Prairie View (Township of)	22660	Ekre Spur
	Foster County	23100	Elk Creek (Township of)
04860	Barlow	23860	Elmwood (Township of)
07140	Birtsell (Township of)	29340	Garner (Township of)
08380	Bordulac	31420	Golva
08420	Bordulac (Township of)	37340	Henry (Township of)
10020	Bucephalia (Township of)	38580	Home On The Range For Boys
12340	Carrington	47700	Lone Tree (Township of)
12380	Carrington (Township of)	57865	North Golden Valley
21700	Eastman (Township of)	61340	Pearl (Township of)
24900	Estabrook (Township of)	66700	Rider
26820	Florance (Township of)	69580	Saddle Butte (Township of)
30660	Glenfield	71740	Sentinel (Township of)
30700	Glenfield (Township of)	71780	Sentinel Butte
31740	Grace City	74180	South Golden Valley
33860	Guptill	78540	Thelan
36260	Haven (Township of)	79620	Trotters
41140	Juanita		
45180	Larrabee (Township of)	00820	Grand Forks County Agnes (Township of)
45890	Lemert	01620	Allendale (Township of)
47900	Longview (Township of)	02020	Americus (Township of)
49260	McHenry	03380	Arvilla
49300	McHenry (Township of)	03420	Arvilla (Township of)
49500	McKinnon (Township of)	03940	Avon (Township of)
52060	Melville	06100	Bentru (Township of)
52100	Melville (Township of)	07860	Blooming (Township of)

FIPS ID	Name	FIPS ID	Name
08180	Bolack	48940	McCanna
09300	Brenna (Township of)	51940	Mekinock
11660	Calspur	51980	Mekinock (Township of)
13860	Chester (Township of)	52500	Merrifield
22300	Edisons	52620	Michigan (Township of)
23180	Elkmount (Township of)	54300	Moraine (Township of)
23700	Elm Grove (Township of)	56780	Niagara
24060	Emerado	56820	Niagara (Township of)
25260	Fairfield (Township of)	57870	North Grand Forks
25540	Falconer (Township of)	58300	Northwood
26020	Ferry (Township of)	58340	Northwood (Township of)
26620	Flaat	58900	Oakville (Township of)
27180	Forest River Colony	59780	Orr
30180	Gilby	63300	Pleasant View (Township of)
30220	Gilby (Township of)	63380	Plymouth (Township of)
31700	Grace (Township of)	64060	Powell
32060	Grand Forks	66260	Reynolds
32100	Grand Forks (Township of)	69540	Rye (Township of)
32140	Grand Forks Air Force Base	72020	Shawnee
32165	Grand Forks International	76420	Strabane (Township of)
32180	Grand Forks Junction	78660	Thompson
35070	Hannah Junction	80060	Turtle River (Township of)
36940	Hegton (Township of)	80740	Union (Township of)
38460	Holmes	83140	Walle (Township of)
38700	Honeyford	83740	Washington (Township of)
39980	Inkster	85140	Wheatfield (Township of)
40020	Inkster (Township of)	74420	South Washington
40900	Johnstown	80780	University of North Dakota
40940	Johnstown (Township of)		
41740	Kelly		Grant County
41940	Kempton	09540	Brisbane
44060	Lakeville (Township of)	12460	Carson
45020	Larimore	13280	Central Grant
45060	Larimore (Township of)	21670	East Grant
46180	Levant (Township of)	23020	Elgin
46820	Lind (Township of)	23580	Elm (Township of)
47585	Logan Center	26580	Fisher (Township of)
47580	Logan Center (Township of)	28305	Freda
48100	Loretta (Township of)	28300	Freda (Township of)
50420	Manvel	36980	Heil

FIPS ID	Name	FIPS ID	Name
39060	Howe (Township of)	48820	Mabel (Township of)
40840	Johnson Ford	54540	Mose
45100	Lark	62580	Pilot Mound (Township of)
45140	Lark (Township of)	66180	Revere
45820	Leipzig (Township of)	67980	Romness (Township of)
45860	Leith	68460	Rosendal (Township of)
53300	Minnie (Township of)	72340	Shepard
56420	New Leipzig	77260	Sutton
60300	Otter Creek (Township of)	77340	Sverdrup (Township of)
64580	Pretty Rock (Township of)	80580	Tyrol (Township of)
65100	Raleigh	83300	Walum
65140	Raleigh (Township of)	83660	Washburn (Township of)
67340	Rock (Township of)	86300	Willow (Township of)
71260	Schultz (Township of)		
72660	Shields		
69900	St. Gertrude		
85000	West Grant		
86900	Winona (Township of)		
09545	Brisbane (Township of)		
72700	Shields (Township of)		
10260	Buckskin (Township of)		
	Griggs County		Hettinger County
00420	Addie (Township of)	00220	Acme (Township of)
04540	Ball Hill (Township of)	01100	Alden (Township of)
05180	Bartley (Township of)	03460	Ashby (Township of)
07020	Binford	04220	Baer (Township of)
09660	Broadview (Township of)	05680	Beery (Township of)
09940	Bryan (Township of)	06060	Bentley
14340	Clearfield (Township of)	07380	Black Butte (Township of)
15900	Cooperstown	09580	Brittian (Township of)
15940	Cooperstown (Township of)	11060	Burt
20060	Dover (Township of)	11820	Campbell (Township of)
33260	Greenfield (Township of)	11980	Cannon Ball (Township of)
35020	Hannaford	12780	Castle Rock (Township of)
37100	Helena (Township of)	13980	Chilton (Township of)
40740	Jessie	14220	Clark (Township of)
41460	Karnak	25780	Farina (Township of)
42820	Kingsley (Township of)	36180	Havelock
45900	Lenora (Township of)	36220	Havelock (Township of)
		37940	Highland (Township of)
		39940	Indian Creek (Township of)
		42100	Kennedy (Township of)
		42420	Kern (Township of)
		43620	Kunze (Township of)
		49660	Madison (Township of)
		52540	Merrill (Township of)
		54620	Mott

FIPS ID	Name	FIPS ID	Name
54660	Mott (Township of)	61980	Petersville (Township of)
56180	New England	62060	Pettibone
56220	New England (Township of)	62100	Pettibone (Township of)
59100	Odessa (Township of)	63140	Pleasant Hill (Township of)
66020	Regent	64940	Quinby (Township of)
66740	Rifle (Township of)	66220	Rexine (Township of)
73860	Solon (Township of)	67180	Robinson
69820	St. Croix (Township of)	67220	Robinson (Township of)
75860	Steiner (Township of)	72860	Sibley (Township of)
76740	Strehlow (Township of)	74190	South Kidder
78460	Tepee Butte (Township of)	75780	Steele
82620	Wagendorf (Township of)	76060	Stewart (Township of)
83060	Walker (Township of)	77940	Tanner (Township of)
83900	Watrous	77980	Tappen
06420	Berry (Township of)	78020	Tappen (Township of)
	Kidder County	80140	Tuttle
01580	Allen (Township of)	80180	Tuttle (Township of)
03700	Atwood (Township of)	81140	Valley (Township of)
04300	Baker (Township of)	81820	Vernon (Township of)
10180	Buckeye (Township of)	83100	Wallace (Township of)
10740	Bunker (Township of)	84260	Weiser (Township of)
13900	Chestina (Township of)	84980	Westford (Township of)
14420	Clear Lake (Township of)	86100	Williams (Township of)
17020	Crown Hill (Township of)	87460	Woodlawn (Township of)
17180	Crystal Springs		LaMoure County
17220	Crystal Springs (Township of)	00620	Adrian
18260	Dawson	00660	Adrian (Township of)
25100	Excelsior (Township of)	01340	Alfred
28620	Frettim (Township of)	04180	Badger (Township of)
31780	Graf (Township of)	06300	Berlin
36580	Haynes (Township of)	07420	Black Loam (Township of)
42580	Kickapoo (Township of)	07980	Bluebird (Township of)
43740	Ladoga	18420	Dean (Township of)
44140	Lake Williams	18780	Deisem
44180	Lake Williams (Township of)	19580	Dickey
50260	Manning (Township of)	22140	Edgeley
52420	Merkel (Township of)	22180	Edgeley Junction
58260	Northwest (Township of)	30420	Gladstone (Township of)
61220	Peace (Township of)	30540	Glen (Township of)

FIPS ID	Name	FIPS ID	Name
30820	Glenmore (Township of)	26500	Finn (Township of)
31100	Golden Glen (Township of)	28380	Fredonia
32380	Grand Rapids	28860	Gackle
32420	Grand Rapids (Township of)	30620	Glendale (Township of)
32540	Grandview (Township of)	33940	Gutschmidt (Township of)
33460	Greenville (Township of)	33980	Guyson
37300	Henrietta (Township of)	34060	Haag (Township of)
39900	Independence	40620	Janke (Township of)
41180	Jud	45740	Lehr
42140	Kennison (Township of)	55420	Napoleon
43580	Kulm	61840	Peters
44540	LaMoure	65700	Red Lake (Township of)
47180	Litchville (Township of)	71580	Sealy (Township of)
50780	Marion	75540	Starkey (Township of)
51740	Medberry	85065	West Logan
52860	Mikkelson (Township of)	43540	Kroeber (Township of)
57300	Nora (Township of)		
57340	Norden (Township of)		McHenry Country
58420	Nortonville	02220	Anamoose
60420	Ovid (Township of)	02260	Anamoose (Township of)
61380	Pearl Lake (Township of)	04460	Balfour
63500	Pomona View (Township of)	04500	Balfour (Township of)
64220	Prairie (Township of)	04740	Bantry
65260	Raney (Township of)	04780	Bantry (Township of)
65540	Ray (Township of)	06180	Bergen
68060	Roscoe (Township of)	06540	Berwick
69220	Russell (Township of)	06580	Berwick (Township of)
69420	Ryan (Township of)	07300	Bjornson (Township of)
70660	Saratoga (Township of)	09860	Brown (Township of)
72460	Sheridan (Township of)	15130	Cole Ford
77380	Swede (Township of)	16260	Cottonwood Lake (Township of)
81900	Verona	18540	Deep River (Township of)
83380	Wano (Township of)	18620	Deering
86340	Willowbank (Township of)	18660	Deering (Township of)
	Logan County	18980	Denbigh
09980	Bryant (Township of)	19020	Denbigh (Township of)
11020	Burnstad	20300	Drake
19740	Dixon (Township of)	21679	East McHenry
21675	East Logan	22580	Egg Creek (Township of)
		25620	Falsen (Township of)

FIPS ID	Name	FIPS ID	Name
28820	Funston	75020	Spring Grove (Township of)
29820	Genoa	76700	Strege (Township of)
30300	Gilmore (Township of)	79420	Towner
32660	Granville	80860	Upham
32700	Granville (Township of)	81620	Velva
33700	Grilley (Township of)	81660	Velva (Township of)
33900	Guthrie	81740	Verendrye
37260	Hendrickson (Township of)	82220	Villard (Township of)
41380	Karlsruhe	82380	Voltaire
41420	Karlsruhe (Township of)	82420	Voltaire (Township of)
42660	Kief	82580	Wagar (Township of)
43420	Kongsberg	86420	Willow Creek (Township of)
43460	Kottke Valley (Township of)		
43820	Lake George (Township of)		McIntosh County
43860	Lake Hester (Township of)	03540	Ashley
44660	Land (Township of)	18020	Danzig
45380	Layton (Township of)	21683	East McIntosh
45500	Lebanon (Township of)	45740	Lehr
47260	Little Deep (Township of)	48290	Lowell
51660	Meadow (Township of)	58265	Northwest McIntosh
53010	Milroy	67940	Roloff (Township of)
54980	Mouse River (Township of)	74505	Southwest McIntosh
56540	Newport (Township of)	81700	Venturia
57500	Normal (Township of)	87020	Wishek
58100	North Prairie (Township of)	88180	Zeeland
57727	Northeast McHenry		
58620	Norwich		McKenzie County
58660	Norwich (Township of)	01140	Alex (Township of)
59180	Odin (Township of)	01180	Alexander
59300	Olivia (Township of)	03220	Arnegard
64420	Pratt (Township of)	03260	Arnegard (Township of)
65300	Rangeley	04650	Banks
66785	Riga	08020	Blue Butte (Township of)
66780	Riga (Township of)	12540	Cartwright
66840	Rising	13290	Central McKenzie
68310	Rose Hill (Township of)	13540	Charbon (Township of)
68660	Round Lake (Township of)	13580	Charbonneau
70340	Saline (Township of)	13620	Charlson
71180	Schiller (Township of)	16500	Cowles Beet Siding
73260	Simcoe	16850	Croff

FIPS ID	Name	FIPS ID	Name
19940	Dore	02500	Antelope (Township of)
21580	East Fairview	05540	Bear Den (Township of)
21687	East McKenzie	39780	Ideal (Township of)
23060	Elk (Township of)	57820	Northfork
23820	Elm Tree (Township of)	71100	Schafer (Township of)
27332	Fort Berthold	27920	Four Bears (Segment)
27340	Fort Berthold Indian Reservation	49960	Mandaree (Segment)
27940	Four Bears Health Center	61100	Patent Gate (Township of)
27950	Four Bears Village	65780	Red Wing (Township of)
31900	Grail (Township of)		
32820	Grassy Butte		McLean County
35280	Harding	02180	Amundsville (Township of)
35380	Hardy Beet Siding	02340	Andrews (Township of)
36340	Hawkeye (Township of)	03820	Aurena (Township of)
40860	Johnsons Corner	05980	Benedict
41540	Keene	06780	Big Bend
41580	Keene (Township of)	07500	Blackwater (Township of)
49980	Mandaree	08060	Blue Hill (Township of)
58045	North McKenzie	11180	Butte
61760	Pershing	11220	Butte (Township of)
63420	Poe (Township of)	11420	Byersville (Township of)
65220	Randolph (Township of)	14980	Coal Creek Junction
65500	Rawson	15140	Coleharbor
66380	Rhoades (Unorganized Territory)	16700	Cremerville (Township of)
67140	Riverview (Township of)	17500	Custer
71105	Schafer	18580	Deepwater (Township of)
73380	Sioux (Township of)	19860	Dogden (Township of)
73490	Skaar	19980	Douglas (Township of)
74110	Southeast McKenzie	21690	East McLean
74510	Southwest McKenzie	24100	Emmet
74750	Spotted Horn	25580	Falkirk
78600	Theodore Roosevelt National Park	27334	Fort Berthold
78905	Timber Creek	27340	Fort Berthold Indian Reservation
79520	Tri (Township of)	29460	Garrison
80460	Twin Valley (Township of)	29660	Gate (Township of)
83860	Watford City	32940	Greatstone (Township of)
85900	Wilbur (Township of)	38940	Horseshoe Valley (Township of)
87820	Yellowstone (Township of)	44220	Lake Williams (Township of)
02600	Antelope Creek (Township of)	47820	Longfellow (Township of)
		47940	Loquemont (Township of)

FIPS ID	Name	FIPS ID	Name
49860	Malcolm (Township of)	27340	Fort Berthold Indian Reservation
51380	Max	30740	Glenharold
49180	McGinnis (Township of)	31180	Golden Valley
51820	Medicine Hill (Township of)	36780	Hazen
52340	Mercer	43235	Knife River Indian Villages National Historic Site
52380	Mercer (Township of)	62260	Pick City
52400	Merida	66140	Republic
57720	North Central McLean	75420	Stanton
60260	Otis (Township of)	79700	Truax
65460	Raub	85075	West Mercer
66980	Riverdale	88140	Zap
67020	Riverdale Junction	80310	Twin Buttes (Segment)
68220	Roseglen		
68260	Roseglen (Township of)		
68420	Rosemont (Township of)		
69140	Ruso		
73780	Snow (Township of)		
74200	South McLean		
70060	St. Mary (Township of)		
79940	Turtle Lake		
79980	Turtle Lake (Township of)		
80660	Underwood		
80670	Underwood		
82060	Victoria (Township of)		
83700	Washburn		
85070	West McLean		
85660	White Shield		
86580	Wilton		
86940	Wise (Township of)		
21940	Economy (Township of)		
60920	Parshall (Segment)		
72235	Shell Creek (Segment)		
85670	White Shield (Segment)		
63660	Poplar (Township of)		
73740	Snake Creek (Township of)		
	Mercer County		
06660	Beulah		
21710	East Mercer		
27336	Fort Berthold		
			Morton County
		01700	Almont
		08050	Bluegrass
		09180	Breien
		10820	Burgess
		12080	Captain's Landing (Township of)
		19050	Dengate
		20780	Duke Spur
		21340	Eagle Nest
		21720	East Morton
		24300	Engelter (Township of)
		25600	Fallon
		26660	Flasher
		27685	Fort Rice
		30860	Glen Ullin
		35500	Harmon
		36860	Hebron
		39260	Huff
		40060	Inverlac
		41220	Judson
		47280	Little Heart
		48700	Lynwood
		48780	Lyons
		49900	Mandan
		49920	Mandan
		56700	New Salem

FIPS ID	Name	FIPS ID	Name
57700	North Almont	48180	Lostwood
67400	Rock Haven	48220	Lostwood (Township of)
71200	Schmidt	48340	Lowland (Township of)
73300	Sims	48540	Lunds Valley
69740	St. Anthony	50140	Manitou
69700	St. Anthony (sta.)	50180	Manitou (Township of)
77020	Sunny	48860	McAlmond (Township of)
77420	Sweet Briar	49140	McGahan (Township of)
78910	Timmer	53700	Model (Township of)
85080	West Morton	54860	Mountrail (Township of)
88000	Youngtown	55300	Myrtle (Township of)
17380	Curlew (Township of)	56740	New Town
21380	Eagles Nest (Township of)	58820	Oakland (Township of)
	Mountrail County	59940	Osborn (Township of)
01380	Alger (Township of)	60060	Osloe (Township of)
03900	Austin (Township of)	60620	Palermo
04700	Banner (Township of)	60660	Palermo (Township of)
05780	Belden	60940	Parshall
06700	Bicker (Township of)	60980	Parshall (Township of)
07580	Blaisdell	62980	Plaza
09780	Brookbank (Township of)	63020	Plaza (Township of)
10860	Burke (Township of)	64100	Powers (Township of)
14460	Clearwater (Township of)	64180	Powers Lake (Township of)
16220	Cottonwood (Township of)	64300	Prairie Junction
16300	Coulee	64900	Purcell (Township of)
16540	Crane Creek (Township of)	65420	Rat Lake (Township of)
16980	Crowfoot (Township of)	65740	Redmond (Township of)
18460	Debing (Township of)	68540	Ross
22500	Egan (Township of)	68580	Ross (Township of)
24560	Epworth	70620	Sanish
26060	Fertile (Township of)	72220	Shell (Township of)
27338	Fort Berthold	73020	Sidonia (Township of)
27340	Fort Berthold Indian Reservation	73060	Sikes (Township of)
39180	Howie (Township of)	73980	Sorkness (Township of)
39740	Idaho (Township of)	74515	Southwest Mountrail
40500	James Hill (Township of)	74860	Spring Coulee (Township of)
42620	Kickapoo (Township of)	75380	Stanley
43220	Knife River (Township of)	75740	Stave (Township of)
46340	Liberty (Township of)	77860	Tagus
		81420	Van Hook (Township of)

FIPS ID	Name	FIPS ID	Name
82500	Wabek	59900	Osago (Township of)
83760	Wassaic	61460	Pekin
84020	Wayzetta (Township of)	61540	Pelto
85085	West Mountrail	61860	Petersburg
85540	White Earth	61900	Petersburg (Township of)
85580	White Earth (Township of)	68820	Rubin (Township of)
06800	Big Bend (Township of)	68900	Rugh (Township of)
06740	Big Ben (Township of)	70700	Sardis
60920	Parshall (Segment)	70820	Sarnia (Township of)
72235	Shell Creek (Segment)	79180	Tolna
85670	White Shield (Segment)	83340	Wamduska (Township of)
	Nelson County	85820	Whitman
00580	Adler (Township of)	86140	Williams (Township of)
02380	Aneta	27780	Fort Totten Indian Reservation
06220	Bergen (Township of)	74640	Spirit Lake Reservation
13260	Central (Township of)	52700	Michigan City (Township of)
14180	Clara (Township of)	52740	Michigan City (corporate name for Michigan)
17620	Dahlen	52660	Michigan (corporate name Michigan City)
17660	Dahlen (Township of)	19445	Devils Lake Sioux Indian Reservation
18300	Dayton (Township of)	87430	Wood Lake (District)
19780	Dodds (Township of)		Oliver County
24500	Enterprise (Township of)	13180	Center
26220	Field (Township of)	21730	East Oliver
27020	Forde (Township of)	27420	Fort Clark
34780	Hamlin (Township of)	35100	Hannover
39820	Illinois (Township of)	37420	Hensler
43180	Kloten	60305	Otter Creek
44300	Lakota	64620	Price
44340	Lakota (Township of)	70500	Sanger
45540	Lee (Township of)	85110	West Oliver
46140	Leval (Township of)		Pembina County
50460	Mapes	00700	Advance (Township of)
49580	McVille	00860	Akra
52140	Melvin (Township of)	00900	Akra (Township of)
52640	Michigan (Township of)	04100	Backoo
55460	Nash (Township of)		
55860	Nesheim (Township of)		
58460	Norval		
59580	Ora (Township of)		

FIPS ID	Name	FIPS ID	Name
05260	Bathgate	70260	St. Thomas
05300	Bathgate (Township of)	70300	St. Thomas (Township of)
05580	Beaulieu (Township of)	77360	Svold
08660	Bowesmont	78620	Thingvalla (Township of)
12180	Carlisle (Township of)	82980	Walhalla
12940	Cavalier	83020	Walhalla (Township of)
12980	Cavalier (Township of)	37380	Hensel (corporate name Canton)
15620	Concrete	12060	Canton City (corporate name for Hensel)
15660	Concrete Junction		
17060	Crystal		
17100	Crystal (Township of)		
20340	Drayton		
20380	Drayton (Township of)	01220	Alexander (Township of)
23900	Elora (Township of)	02620	Antelope Lake (Township of)
25980	Felson (Township of)	03980	Aylmer
26720	Fleece	04580	Balta
29100	Gardar	04620	Balta (Township of)
29140	Gardar (Township of)	05220	Barton
30500	Glasston	13300	Central Pierce
34380	Hallson	14820	Clifton
34620	Hamilton	23300	Elling (Township of)
34660	Hamilton (Township of)	23940	Elverum (Township of)
40980	Joliette	34140	Hagel (Township of)
41020	Joliette (Township of)	38740	Hong
44580	La Moure (Township of)	40700	Jefferson (Township of)
46100	Leroy	46220	Leverich
46300	Leyden	52580	Meyer (Township of)
46660	Lincoln (Township of)	55900	Ness (Township of)
47460	Lodema (Township of)	58080	North Pierce
48900	McArthur	59820	Orrin
52780	Midland (Township of)	66060	Reno Valley (Township of)
54740	Mountain	68860	Rugby
55620	Neché	68980	Rush Lake (Township of)
55660	Neché (Township of)	71700	Selz
60820	Park (Township of)	73100	Silva
61580	Pembina	74305	South Pierce
61620	Pembina (Township of)	79220	Torgerson (Township of)
62860	Pittsburg	79780	Truman (Township of)
64980	Ragus	79900	Tunbridge
70020	St. Joseph (Township of)	80100	Tuscarora (Township of)
		85460	White (Township of)

Pierce County

FIPS ID	Name	FIPS ID	Name
87180	Wolford	56380	Newland (Township of)
	Ramsey County	56980	Nixon (Township of)
05100	Bartlett	57260	Noonan (Township of)
05140	Bartlett (Township of)	57722	North Creel (Township of)
09700	Brocket	57780	Northfield (Township of)
12900	Cato (Township of)	59140	Odessa (Township of)
13380	Chain Lakes (Township of)	59460	Ontario (Township of)
14140	Churchs Ferry	60340	Overland (Township of)
16340	Coulee (Township of)	61500	Pelican (Township of)
16580	Crary	61660	Penn
16660	Creel (Township of)	63680	Poplar Grove (Township of)
18060	Darby	64740	Prospect (Township of)
18740	De Groat (Township of)	65180	Ramsey
19220	Derrick	67700	Rohrville
19420	Devils Lake	68780	Royal (Township of)
19435	Devils Lake Municipal Airport	74280	South Minnewaukan (Township of)
20260	Doyon	74060	Southam
20620	Dry Lake (Township of)	69940	St. Joe
22340	Edmore	75580	Starkweather
24860	Essex	75980	Stevens (Township of)
25660	Fancher (Township of)	76860	Sullivan (Township of)
27760	Fort Totten (sta.)	77460	Sweetwater
28580	Freshwater (Township of)	79580	Triumph (Township of)
29500	Garske	84140	Webster
32220	Grand Harbor	84180	Webster (Township of)
32260	Grand Harbor (Township of)	27780	Fort Totten Indian Reservation
34820	Hammer (Township of)	74640	Spirit Lake Reservation
34860	Hampden	73620	S Minnewaukan
35300	Harding (Township of)	19445	Devils Lake Sioux Indian Reservation
38020	Highland Center (Township of)	17000	Crow Hill (District)
41620	Keith	27710	Fort Totten (District)
43100	Klingstrup (Township of)	70150	St. Michael (District)
44260	Lakewood Park		Ransom County
45300	Lawton	01460	Aliceton (Township of)
45340	Lawton (Township of)	01540	Alleghany (Township of)
46620	Lillehoff (Township of)	02460	Anselm
53260	Minnewaukan (Township of)	04420	Bale (Township of)
54420	Morris (Township of)		
55980	Newbre (Township of)		

FIPS ID	Name	FIPS ID	Name
06820	Big Bend (Township of)	24460	Ensign (Township of)
11300	Buttville	25140	Fairbanks (Township of)
12580	Casey (Township of)	30580	Glenburn
15065	Coburn	32580	Grano
15060	Coburn (Township of)	32780	Grassland (Township of)
23340	Elliott	33220	Greene
23380	Elliott (Township of)	33740	Grover (Township of)
24260	Enderlin	34580	Hamerly (Township of)
24380	Englevale	34700	Hamlet (Township of)
27580	Fort Ransom	39620	Hurley (Township of)
27620	Fort Ransom (Township of)	40380	Ivanhoe (Township of)
33180	Greene (Township of)	47420	Lockwood (Township of)
35180	Hanson (Township of)	48020	Loraine (Lorain)
40300	Island Park (Township of)	49460	McKinney (Township of)
40340	Isley (Township of)	53780	Mohall
46380	Liberty (Township of)	55180	Muskego (Township of)
47100	Lisbon	57460	Norma
49540	McLeod	62900	Plain (Township of)
54180	Moore (Township of)	64460	Prescott (Township of)
57740	Northern Pacific Crossing	64820	Prosperity (Township of)
57900	Northland (Township of)	67380	Rockford (Township of)
60460	Owego (Township of)	68020	Roosevelt (Township of)
64500	Preston (Township of)	72540	Sherwood
68380	Rosemeade (Township of)	75180	Stafford (Township of)
70460	Sandoun (Township of)	79140	Tolley
71460	Scoville (Township of)	81300	Van Buren (Township of)
72180	Sheldon	85500	White Ash (Township of)
72300	Shenford (Township of)	47980	Lorain (Loraine)
74940	Springer (Township of)		
77540	Sydna (Township of)		
79860	Tuller (Township of)		
81680	Venlo		
	Renville County		
09100	Brandon (Township of)	00100	Abercrombie
11620	Callahan (Township of)	00140	Abercrombie (Township of)
14020	Chola	02540	Antelope (Township of)
14260	Clay (Township of)	04940	Barney
15380	Colquhoun (Township of)	04980	Barney (Township of)
22100	Eden Valley (Township of)	05065	Barrie
		05060	Barrie (Township of)
		05390	Bayne
		05860	Belford (Township of)
		07430	Blackmer

FIPS ID	Name	FIPS ID	Name
09020	Brandenburg (Township of)	54220	Mooreton
09340	Brightwood (Township of)	54260	Mooreton (Township of)
13220	Center (Township of)	54340	Moran (Township of)
14100	Christine	54580	Moselle
15180	Colfax	55340	Nansen (Township of)
15220	Colfax (Township of)	60220	Oswald
17980	Danton (Township of)	62820	Pitcairn
19380	Deville (Township of)	64090	Power
19540	Dexter (Township of)	72620	Sheyenne (Township of)
20740	Duerr (Township of)	73880	Sonora
21220	Dwight	76090	Stiles
21260	Dwight (Township of)	76940	Summit (Township of)
21300	Eagle (Township of)	80500	Tyler
23620	Elma (Township of)	81580	Veblen Junction
23720	Elmore	82140	Viking (Township of)
24400	Enloe	82660	Wahpeton
25300	Fairmount	82700	Wahpeton Junction
25340	Fairmount (Township of)	82780	Walcott
25460	Fairview Junction	82820	Walcott (Township of)
25820	Farmington	82900	Waldo (Township of)
28500	Freeman (Township of)	84700	West End (Township of)
28940	Galchutt	87740	Wyndmere
29060	Garborg (Township of)	87780	Wyndmere (Township of)
32620	Grant (Township of)	73460	Sisseton Indian Reservation (Also SD)
32900	Great Bend		
33140	Greendale (Township of)	37080	Heipa (District)
34900	Hankinson		
37140	Helendale (Township of)		Rolette County
38660	Homestead (Township of)	00780	Agate
39700	Ibsen (Township of)	05740	Belcourt
42540	Keystone	17420	Currie (Township of)
44460	La Mars	21020	Dunseith
43995	Lake Traverse Sisseton Indian Reservation	21520	East Dunseith
44500	LaMars (Township of)	21750	East Rolette
46420	Liberty Grove (Township of)	26900	Fonda
46460	Lidgerwood	41900	Kelvin
47200	Lithia	43340	Kohlmeier (Township of)
50380	Mantador	51260	Maryville (Township of)
51340	Mathews	55220	Mylo
		55380	Nanson

FIPS ID	Name	FIPS ID	Name
58125	North Rolette	40460	Jackson (Township of)
67780	Rolette	42860	Kingston (Township of)
67820	Rolla	43995	Lake Traverse Sisseton Indian Reservation
70540	San Haven (San Haven State Hospital)	50660	Marboe (Township of)
72250	Shell Valley	52940	Milnor
72260	Shell Valley (Township of)	52980	Milnor (Township of)
74320	South Rolette	56860	Nicholson
74340	South Valley (Township of)	65340	Ransom (Township of)
69980	St. John	69340	Rutland
78740	Thorne	69380	Rutland (Township of)
80010	Turtle Mountain	70740	Sargent (Township of)
80020	Turtle Mountain Indian Reservation	72780	Shuman (Township of)
70580	San Haven State Hospital	74460	Southwest (Township of)
25380	Fairview (Township of)	76220	Stirum
46060	Leonard (Township of)	76580	Straubville
69260	Russell (Township of)	78140	Taylor (Township of)
		78500	Tewaukon (Township of)
		81780	Verner (Township of)
	Sargent County	82340	Vivian (Township of)
08620	Bowen (Township of)	84100	Weber (Township of)
08940	Brampton	85740	Whitestone Hill (Township of)
08980	Brampton (Township of)	86060	Willey (Township of)
13020	Cayuga	73460	Sisseton Indian Reservation (Also SD)
15100	Cogswell	37080	Heipa (District)
16740	Crete		
18820	De Lamere		
19180	Denver (Township of)		Sheridan County
20820	Dunbar (Township of)	06340	Berlin (Township of)
27260	Forman	08300	Boone (Township of)
27300	Forman (Township of)	13310	Central Sheridan
29780	Geneseo	19060	Denhoff
34020	Gwinner	19100	Denhoff (Township of)
34300	Hall (Township of)	22220	Edgemont (Township of)
34785	Hamlin	25420	Fairview (Township of)
34880	Hamble	31500	Goodrich
35420	Harlem (Township of)	31540	Goodrich (Township of)
36140	Havana	37980	Highland (Township of)
37500	Herman (Township of)	38500	Holmes (Township of)
39020	Hoving	46700	Lincoln Dale (Township of)

FIPS ID	Name	FIPS ID	Name
46745	Lincoln Valley	13410	Chalky Butte
51060	Martin	15740	Connor (Township of)
51100	Martin (Township of)	16620	Crawford (Township of)
51350	Mauch (Township of)	19275	De Sart
49020	McClusky	18520	Deep Creek
49060	McClusky (Township of)	20140	Dovre (Township of)
56260	New Germantown (Township of)	24760	E-Six
58130	North Sheridan	35620	Harper (Township of)
62180	Pickard (Township of)	39300	Hughes (Township of)
62200	Pickardville	39420	Hume (Township of)
64715	Prophets (Township of)	50860	Marmarth
68470	Rosenfield (Township of)	51635	Mazda
73540	Skogmo	53100	Mineral Springs (Township of)
74330	South Sheridan	54140	Moord (Township of)
76540	Strassburg (Township of)	54700	Mound (Township of)
	Sioux County	58275	Northwest Slope
12020	Cannon Ball	61260	Peaceful Valley (Township of)
13320	Chadwick	62510	Pierce
27860	Fort Yates	65060	Rainy Butte (Township of)
27870	Fort Yates	66620	Richland Center (Township of)
52300	Menz (Township of)	70420	Sand Creek (Township of)
58135	North Sioux	72100	Sheets (Township of)
63700	Porcupine	73580	Slope Center (Township of)
71660	Selfridge	77100	Sunshine (Township of)
73820	Solen	85125	West Slope
74520	Southwest Sioux	85620	White Lake (Township of)
75300	Standing Rock Indian Reservation (Also SD)	87340	Woodberry (Township of)
12030	Cannonball (District)		Stark County
27885	Fort Yates (District)	02580	Antelope
42000	Kenel (District)	05820	Belfield
63710	Porcupine (District)	08860	Boyle
	Slope County	17610	Daglum
02060	Amidon	19620	Dickinson
10220	Bucklin (Township of)	19625	Dickinson North
12420	Carroll (Township of)	19630	Dickinson South
12620	Cash (Township of)	21760	East Stark
13140	Cedar Creek (Township of)	22700	Eland
		30460	Gladstone
		45660	Lefor (St. Elizabeth)

FIPS ID	Name	FIPS ID	Name
45700	Lehigh		Stutsman County
66500	Richardton	01260	Alexander (Township of)
71140	Scheffield	03500	Ashland (Township of)
74185	South Heart	07700	Bloom
78180	Taylor	07740	Bloom (Township of)
85130	West Stark	07780	Bloomenfield (Township of)
88200	Zenith	10060	Buchanan
69860	St. Elizabeth	10100	Buchanan (Township of)
	Steele County	13660	Chase Lake (Unorganized Territory)
05660	Beaver Creek (Township of)	13940	Chicago (Township of)
07340	Blabon	14580	Clements ville
09620	Broadlawn (Township of)	14660	Cleveland
12220	Carpenter (Township of)	15700	Conklin (Township of)
15300	Colgate	16020	Corinne (Township of)
15340	Colgate (Township of)	16140	Corwin (Township of)
21740	Easton (Township of)	16380	Courtenay
22060	Edendale (Township of)	16420	Courtenay (Township of)
24340	Enger (Township of)	17460	Cusator (Township of)
26420	Finley	18700	Deer Lake (Township of)
26460	Finley (Township of)	21140	Durham (Township of)
26475	Finley Air Force Station	21180	Durrupt
28140	Franklin (Township of)	22380	Edmunds
31140	Golden Lake (Township of)	22420	Edmunds (Township of)
33420	Greenview (Township of)	22900	Eldridge
38860	Hope	22940	Eldridge (Township of)
39340	Hugo (Township of)	26740	Flint (Township of)
48580	Luverne	28700	Fried (Township of)
52020	Melrose (Township of)	28725	Frontier Village
56060	Newburgh (Township of)	29860	Gerber (Township of)
62380	Pickert	29940	Germania (Township of)
64660	Primrose (Township of)	30380	Glacier (Township of)
67100	Riverside (Township of)	31380	Goldwin
71940	Sharon	32860	Gray (Township of)
71980	Sharon (Township of)	33660	Griffin (Township of)
72425	Sherbrooke	37820	Hidden (Township of)
72420	Sherbrooke (Township of)	38625	Homer
84940	Westfield (Township of)	38620	Homer (Township of)
86460	Willow Lake (Township of)	40100	Iosco (Township of)
		40580	Jamestown

FIPS ID	Name	FIPS ID	Name
40592	Jamestown Municipal Airport	76180	Stirton (Township of)
40780	Jim River Valley (Township of)	76620	Streeter
40815	Johnson	76660	Streeter (Township of)
42180	Kensal	76780	Strong (Township of)
42220	Kensal (Township of)	77625	Sydney
43190	Kloze	77620	Sydney (Township of)
45940	Lenton (Township of)	81260	Valley Spring (Township of)
47060	Lippert (Township of)	81540	Vashti
48300	Lowery (Township of)	82540	Wadsworth (Township of)
48740	Lyon (Township of)	83260	Walters (Township of)
50300	Manns (Township of)	84300	Weld (Township of)
51020	Marstonmoor (Township of)	86660	Windsor
51860	Medina	86700	Windsor (Township of)
52820	Midway (Township of)	86740	Winfield (Township of)
52900	Millarton	87380	Woodbury (Township of)
53980	Montpelier	87580	Woodworth
54020	Montpelier (Township of)	88020	Ypsilanti
54100	Moon Lake (Township of)	88060	Ypsilanti (Township of)
56100	Newbury (Township of)	75620	State Hospital
57060	Nogosek (Township of)		
58280	Northwest Stutsman		Towner County
60780	Paris (Township of)	02150	Amourdale
60860	Parkhurst	03060	Armourdale
61940	Peterson (Township of)	03100	Armourdale (Township of)
62620	Pingree	03140	Arndt
62660	Pingree (Township of)	03660	Atkins (Township of)
62740	Pipestem Valley (Township of)	04820	Barks Spur
62940	Plainview (Township of)	06620	Bethel (Township of)
65950	Reeves	07180	Bisbee
68100	Rose (Township of)	11860	Cando
68740	Round Top (Township of)	11900	Cando (Township of)
71860	Severn (Township of)	15780	Considine
71905	Sharlow	15860	Coolin (Township of)
71900	Sharlow (Township of)	16780	Crocus
73340	Sinclair (Township of)	16820	Crocus (Township of)
74660	Spiritwood	18140	Dash (Township of)
74700	Spiritwood (Township of)	22540	Egeland (BN name Olmstead)
74740	Spiritwood Lake	23460	Ellsberry
70180	St. Paul (Township of)	30020	Gerrard (Township of)
75260	Standard Spur	31980	Grainfield (Township of)

FIPS ID	Name	FIPS ID	Name
35140	Hansboro	11380	Buxton (Township of)
39100	Howell (Township of)	11500	Caledonia
44980	Lansing (Township of)	11540	Caledonia (Township of)
51580	Maza	14740	Clifford
51620	Maza (Township of)	17340	Cummings
53900	Monroe (Township of)	22820	Eldorado (Township of)
54940	Mount View (Township of)	23740	Elm River (Township of)
56140	New City (Township of)	24740	Ervin (Township of)
56750	Newville	28980	Galesburg
59340	Olmstead	29020	Galesburg (Township of)
59380	Olson (Township of)	29300	Garfield (Township of)
61020	Pasha	32300	Grandin
61140	Paulson (Township of)	33300	Greenfield
61780	Perth	33340	Greenfield (Township of)
62420	Picton (Township of)	36100	Hatton
67540	Rock Lake (Township of)	37460	Herberg (Township of)
70780	Sarles	38100	Hillsboro
72980	Sidney (Township of)	38140	Hillsboro (Township of)
73660	Smith (Township of)	41820	Kelso
73940	Sorenson (Township of)	41860	Kelso (Township of)
74980	Springfield (Township of)	46860	Lindaas (Township of)
78260	Teddy (Township of)	51500	Mayville
80340	Twin Hill (Township of)	51540	Mayville (Township of)
82020	Victor (Township of)	54380	Morgan (Township of)
82300	Virginia (Township of)	55170	Murray
88220	Zion (Township of)	57540	Norman (Township of)
67580	Rock Lake (corporate name Rocklake)	58540	Norway (Township of)
67500	Rocklake (corporate name for Rock Lake)	63900	Portland
		63940	Portland Junction
		64540	Preston
		65660	Redco
		66260	Reynolds
		68505	Roseville
		68500	Roseville (Township of)
		75700	Stavanger (Township of)
		77820	Taft
		82180	Viking (Township of)
		87100	Wold (Township of)
			Walsh County
	Trail County		
01820	Alton		
05940	Belmont (Township of)		
07060	Bingham (Township of)		
07620	Blanchard		
07660	Blanchard (Township of)		
07820	Bloomfield (Township of)		
08140	Bohnsack (Township of)		
11340	Buxton		

FIPS ID	Name	FIPS ID	Name
00260	Acton (Township of)	58940	Oakwood
00340	Adams	58980	Oakwood (Township of)
00380	Adams (Township of)	59500	Ops
02860	Ardoch	59540	Ops (Township of)
02900	Ardoch (Township of)	60900	Park River
03740	Auburn	61820	Perth (Township of)
12660	Cashel	62780	Pisek
14700	Cleveland (Township of)	63255	Pleasant Valley
15820	Conway	63460	Poland
19460	Dewey (Township of)	64270	Prairie Centre (Township of)
20900	Dundee (Township of)	64860	Pulaski (Township of)
22020	Eden (Township of)	68940	Rushford (Township of)
22260	Edinburg	70940	Sauter (Township of)
25180	Fairdale	72380	Shepherd (Township of)
25860	Farmington (Township of)	73220	Silvesta (Township of)
26100	Fertile (Township of)	69620	St. Andrews (Township of)
27060	Fordville	78820	Tiber (Township of)
27100	Forest River	81860	Vernon (Township of)
27140	Forest River (Township of)	81940	Veseleyville
30940	Glenwood (Township of)	81980	Vesta (Township of)
31060	Golden (Township of)	82460	Voss
31820	Grafton	83180	Walsh Centre (Township of)
31860	Grafton (Township of)	83220	Walshville (Township of)
35740	Harriston (Township of)	83540	Warsaw
37540	Herrick	64260	Prairie Center (Township of)
37580	Herriot		
38780	Hoople		Ward County
41700	Kellogg	00740	Afton (Township of)
42260	Kensington (Township of)	02420	Anna (Township of)
42460	Kerry	03780	Aurelia
42900	Kinloss (Township of)	04145	Baden
44620	Lampton (Township of)	04140	Baden (Township of)
44860	Lankin	06460	Berthold
45260	Latona (Township of)	06500	Berthold (Township of)
49990	Mandt	07260	Bison Spur
51140	Martin (Township of)	09380	Brilliant (Township of)
51780	Medford (Township of)	10940	Burlington
53540	Minto	10980	Burlington (Township of)
55500	Nash	11100	Burt (Township of)
58380	Norton (Township of)	11740	Cameron (Township of)

FIPS ID	Name	FIPS ID	Name
12100	Carbondale (Township of)	49420	McKinley (Township of)
12260	Carpio	53380	Minot
12300	Carpio (Township of)	53420	Minot Air Force Base
17700	Dakota Boys Ranch	53480	Minot International Airport
19140	Denmark (Township of)	55700	Nedrose (Township of)
19300	Des Lacs	56580	New Prairie (Township of)
19340	Des Lacs (Township of)	56500	Newman (Township of)
19900	Donnybrook	56940	Niobe
20020	Douglas	59740	Orlien (Township of)
20290	Drady	61060	Passport (Township of)
23660	Elmdale (Township of)	65160	Ralston
24980	Eureka (Township of)	65820	Ree (Township of)
25060	Evergreen (Township of)	66420	Rice Lake (Township of)
27340	Fort Berthold Indian Reservation	67860	Rolling Green (Township of)
27980	Foxholm	69060	Rushville (Township of)
28020	Foxholm (Township of)	69300	Ruthville
28460	Freedom (Township of)	69460	Ryder
29620	Gasman (Township of)	69500	Ryder (Township of)
32980	Greely (Township of)	70860	Sauk Prairie (Township of)
33100	Greenbush (Township of)	70980	Sawyer
35700	Harrison (Township of)	71020	Sawyer (Township of)
35820	Hartland	72075	Shealy (Township of)
37600	Hesnault	74310	South Prairie
37860	Hiddenwood (Township of)	74580	Spencer (Township of)
38260	Hilton (Township of)	75060	Spring Lake (Township of)
40140	Iota Flat (Township of)	70100	St. Marys (Township of)
40660	J. D. Switch	76980	Sundre (Township of)
41980	Kenaston	77180	Surrey
42020	Kenmare	77220	Surrey (Township of)
42060	Kenmare (Township of)	77500	Swenson
43020	Kirkelie (Township of)	78060	Tatman
47020	Linton (Township of)	78100	Tatman (Township of)
47540	Logan	79100	Tolgen (Township of)
47740	Lone Tree	79260	Torning (Township of)
48500	Lund (Township of)	81380	Vang (Township of)
49820	Makoti	83780	Waterford (Township of)
49940	Mandan (Township of)	86180	Willis (Township of)
50700	Margaret (Township of)	87220	Wolseth
51220	Maryland (Township of)	53460	Minot Base
51460	Mayland (Township of)	72060	Shealey (Township of)

FIPS ID	Name	FIPS ID	Name
60920	Parshall (Segment)	64700	Progress (Township of)
85670	White Shield (Segment)	69100	Rusland (Township of)
		73140	Silver Lake (Township of)
	Wells County	74540	Speedwell (Township of)
06380	Berlin (Township of)	69660	St. Anna (Township of)
06980	Bilodeau (Township of)	77660	Sykeston
08580	Bowdon	77700	Sykeston (Township of)
09220	Bremen	81060	Valhalla (Township of)
09260	Bremen (Township of)	84380	Wells (Township of)
10700	Bull Moose (Township of)	84420	Wellsburg
12820	Cathay	85100	West Norway (Township of)
12860	Cathay (Township of)	85120	West Ontario (Township of)
13700	Chaseley	84740	Western (Township of)
13740	Chaseley (Township of)	87540	Woodward (Township of)
17140	Crystal Lake (Township of)	74080	South Cottonwood (Township of)
18860	Delger (Township of)	71420	S. Cottonwood (Township of)
20100	Dover	87260	W. Ontario (Township of)
24220	Emrick		
25500	Fairville (Township of)		Williams County
26180	Fessenden	00940	Alamo
27900	Forward (Township of)	02740	Appam
28060	Fram (Township of)	03620	Athens (Township of)
29980	Germantown (Township of)	03930	Avoca
34100	Haaland (Township of)	05020	Barr Butte (Township of)
34460	Hamberg	06860	Big Meadow (Township of)
34540	Hamburg (Township of)	06900	Big Stone (Township of)
35900	Harvey	07460	Blacktail (Township of)
36380	Hawksnest (Township of)	08100	Blue Ridge (Township of)
36820	Heaton	08220	Bonetraill
37020	Heimdal	08260	Bonetraill (Township of)
37060	Heimdal (Township of)	09820	Brooklyn (Township of)
38220	Hillsdale (Township of)	10540	Buford (Township of)
39580	Hurdsfield	10620	Bull Butte (Township of)
40820	Johnson (Township of)	13460	Champion (Township of)
48660	Lynn (Township of)	14860	Climax (Township of)
50020	Manfred	16060	Corinth
50060	Manfred (Township of)	16440	Cow Creek
58580	Norway Lake (Township of)	20580	Dry Fork (Township of)
60020	Oshkosh (Township of)	20660	Dublin (Township of)
63620	Pony Gulch (Township of)	21660	East Fork (Township of)

FIPS ID	Name	FIPS ID	Name
23420	Ellisville (Township of)	65580	Ray
24540	Epping	67460	Rock Island (Township of)
24580	Equality (Township of)	68700	Round Prairie (Township of)
25900	Farmvale (Township of)	70900	Sauk Valley (Township of)
27380	Fort Buford (Buford)	71300	Scorio (Township of)
27835	Fort Union Trading Post Nat. Hist. Site (Also MT)	74260	South Meadow (Township of)
30470	Gladys	74115	Southeast Williams
31260	Golden Valley (Township of)	74780	Springbrook
31460	Good Luck (Township of)	74820	Springbrook (Township of)
33500	Grenora	76340	Stony Creek (Township of)
33540	Grenora (Township of)	76460	Strandahl (Township of)
34740	Hamlet	78380	Temple
34940	Hanks	78940	Tioga
35340	Hardscrabble (Township of)	78980	Tioga (Township of)
36620	Hazel (Township of)	79020	Todd
36900	Hebron (Township of)	79460	Trenton
38340	Hofflund (Township of)	79500	Trenton (Township of)
41260	Judson (Township of)	79740	Truax (Township of)
43910	Lake Jessie	80220	Twelve Mile (Township of)
46900	Lindahl (Township of)	80620	Tyrone (Township of)
50820	Marley	82100	View (Township of)
50870	Marmon	84580	West Bank (Township of)
50980	Marshall (Township of)	84640	West Bonetraill
49220	McGregor	85300	Wheelock
53660	Missouri Ridge (Township of)	85340	Wheelock
53940	Mont (Township of)	86020	Wildrose
55920	Nesson Valley	86220	Williston
56300	New Home (Township of)	86260	Williston (Township of)
59260	Oliver (Township of)	86860	Winner (Township of)
59860	Orthell (Township of)	88100	Zahl
62140	Pherrin (Township of)	16460	Cow Creek (Township of)
63260	Pleasant Valley (Township of)	10580	Buford
65020	Rainbow (Township of)	73180	Silver Strip

Out of State
99999080 Canada
99999027 Minnesota
99999030 Montana
99999046 South Dakota
99999999 Not listed

Appendix D Medication List

ID	Name
950	10% D5W
951	25% D5W
8030	2-PAM Chloride Auto Injector
4000	Acetaminophin
4002	Acetaminophin Elixar
4001	Acetaminophin Supp
6020	Activated Charcoal
100	Adenosine
4020	Afrin
200	Albuterol
201	Albuterol Inhaler metered
202	Albuterol Sulfate 2.5mg/3cc
300	Aminophylline
2010	Amiodarone (Cordarone)
7001	Amyl Nitrate
4010	ASA
400	Atropine
600	Bretylium
700	Calcium
4030	Cardizem
4040	Cordarone

ID	Name
4050	Cyanide Antidote
900	D50
901	D5W IV Solution
800	Dexameth
7004	Dexamethasone (Decadron)
1000	Diazepam (Valium)
7002	Digoxin (Lanoxin)
7003	Diltiazem (Cardizem)
1100	Diphenhydramine (Benedryl)
1200	Dobutamine
1300	Dopamine
1400	Epinephrine
1401	Epinephrine 1:10,000
1402	Epinephrine 1:1000
4060	Etomidate
4070	Fentanyl
2301	Fentanyl (Sublimaze)
4080	Flumazaniil
1500	Furosemide (Lasix)
1600	Glucagon
7005	Haloperidol (Haldol)

ID	Name
1700	Heparin
7006	Hydralazine (Apresoline)
1800	Hydrocortisone
4090	Inapsine (Droperidol)
6050	Insulin (Humulin, Novolin)
6010	Ipecac
5000	Ipratropium (Atrovent)
1900	Isoproterenol
7018	Labetalol
2000	Lidocaine
2005	Lidocaine Lubricant
2003	Lidocaine pre-mix bag
1051	Lorazepam (Ativan)
5010	Magnesium Sulfate
7008	Mannitol (Osmitol)
2100	Meperidine
2200	Metoprolol (Alupent)
7007	Metoprolol (Lopressor)
1050	Midazolam (Versed)
2300	Morphine Sulfate
5020	Nalbuphine (Nubain)
2400	Naloxone (Narcan)
7009	Nifedipine (Procardia)

ID	Name
2502	Nitroglycerin Infusion
2600	Nitroglycerin Paste
2501	Nitroglycerin Spray
2500	Nitroglycerine Tabs
7050	Nitroprusside (Nipride)
2700	Nitrous Oxide
7010	Nitrous Oxide (Nitronox)
7011	Norepinephrine (Levophed)
6001	Normal Saline IV Solution
910	Oral Glucose
8000	Oxygen
2800	Oxytocin
7013	Pancuronium (Pavulon)
5030	Phenylephrine (Neo-Synephrine)
7017	Phenytoin (Dilantin)
2900	Procainamide
5040	Prochlorperazine (Compazine)
5050	Promethazine HCL (Phenergran)
5060	Proparacaine (Alcaine)
3101	Propranolol (Inderal)
5070	Racemic Epinephrine
7015	Rapacuronium (Rapion)
7060	Retavase

ID	Name
7016	Rocuronium (Zemuron)
6000	Saline
500	Sodium Bicarbonate
6002	Sodium Chloride Flush
7064	Sodium Pentothol
8020	Sodium Thiosulfate
5080	Solu-Medro (Methylprednisone Succinate)
6030	Sterile Water
7062	Streptokinase (Streptase)
7014	Succinylcholine (Anectine)

ID	Name
7063	Tenecteplase (TNKase)
3000	Terbutaline
5090	Thiamine
7061	Tissue Plasminogen Activator
7090	Total Parenteral Nutrition (TPN)
7012	Vecuronium (Norcuron)
3100	Verapamil
77	Other

Note: This list is currently listed and numbered alphabetically. This order may change with the addition or deletion of medications. Numbers will stay assigned as listed with new numbers issued for future additions.

Appendix E

North Dakota State/County FIPS Codes

FIPS ID	Name	FIPS ID	Name
001	Adams County	073	Ransom County
003	Barnes County	075	Renville County
005	Benson County	077	Richland County
007	Billings County	079	Rolette County
009	Bottineau County	081	Sargent County
011	Bowman	083	Sheridan County
013	Burke County	085	Sioux County
015	Burleigh County	087	Slope County
017	Cass County	089	Stark County
019	Cavalier County	091	Steele County
021	Dickey County	093	Stutsman County
023	Divide County	095	Towner County
025	Dunn County	097	Traill County
027	Eddy County	099	Walsh County
029	Emmons County	101	Ward County
031	Foster County	103	Wells County
033	Golden Valley County	105	Williams County
035	Grand Forks County		
037	Grant County		
039	Griggs County		
041	Hettinger County		
043	Kidder County		
045	LaMoure County		
047	Logan County		
049	McHenry Country		
051	McIntosh County		
053	McKenzie County		
055	McLean County		
057	Mercer County		
059	Morton County		
061	Mountrail County		
063	Nelson County		
065	Oliver County		
067	Pembina County		
069	Pierce County		
071	Ramsey County		

Appendix F

State FIPS Codes

FIPS ID	State Name	FIPS ID	State Name
01	Alabama	17	Illinois
02	Alaska	18	Indiana
60	American Samoa	19	Iowa
04	Arizona	86	Jarvis Island
05	Arkansas	67	Johnston Atoll
81	Baker Island	20	Kansas
06	California	21	Kentucky
08	Colorado	89	Kingman Reef
09	Connecticut	22	Louisiana
10	Delaware	23	Maine
11	District of Columbia	68	Marshall Islands
12	Florida	24	Maryland
64	Federated States of Micronesia	25	Massachusetts
13	Georgia	26	Michigan
66	Guam		Midway Islands
15	Hawaii	27	Minnesota
84	Howland Island	28	Mississippi
16	Idaho	29	Missouri

FIPS ID	State Name	FIPS ID	State Name
30	Montana	72	Puerto Rico
76	Navassa Island	44	Rhode Island
31	Nebraska	45	South Carolina
32	Nevada	46	South Dakota
33	New Hampshire	47	Tennessee
34	New Jersey	48	Texas
35	New Mexico	74	U.S. Minor Outlying Islands
36	New York	49	Utah
37	North Carolina	50	Vermont
38	North Dakota	51	Virginia
69	Northern Mariana Islands	78	Virgin Islands of the U.S.
39	Ohio	79	Wake Island
40	Oklahoma	53	Washington
41	Oregon	54	West Virginia
70	Palau	55	Wisconsin
95	Palmyra Atoll	56	Wyoming
42	Pennsylvania		