

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

CRASH DATABASE

**TRACTAPE RECORD LAYOUT AND
CODE DOCUMENTATION**

(Summarized Traffic Crash Table)

Revised: 10/30/2002

As Maintained within the
Ohio Integrated Traffic Records System



Ohio Department of Public Safety
Information Technology Office
1970 W. Broad Street
PO Box 182081
Columbus, OH 43218-2081
<http://www.state.oh.us/odps>

Crash Data and OH-1 E-mail: oh1@dps.state.oh.us

OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout

TRACTAPE DESCRIPTION

The TRACTAPE data file structure was initially designed in the early 1970's as a simple one-record-per-accident format for the state's accident data. Although it only summarizes information for the first three drivers and vehicles, and the first pedestrian, the file format has proven itself to satisfy the majority of routine analysis needs. When more detailed information on people or vehicles is required, the CRASHES-UNITS-PEOPLE data can be utilized, although this results in a much more complex effort by the user. The TRACTAPE has been selected as the basis for most end-user access to the crash data files, and is also provided as a routine format of exporting data for use on PC's.

When a TRACTAPE file has been:

- ◆ exported to text, and
- ◆ downloaded to a PC,
- ◆ it can be brought into an “empty” Microsoft Access structure** which can be provided to you.

*****This structure has a specification that has all of the TRACTAPE fields pre-defined.*****

Please see import instructions on the following pages for Access 97 and Access 2000/2002.

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

LOADING TO MICROSOFT ACCESS 97

1. **Save** the export file (i.e., TRACTAPE_2001_CO_01.TXT) from the CD or e-mail to your hard drive or network drive.
2. **Save** the “empty” Access 97 database file (i.e., TRACTAPE_2000.MDB) from the CD or e-mail to your hard drive or network drive.
3. Open **Microsoft Access 97**
4. On the Menu Bar click **F**ile, **O**pen Database...
5. Go to the directory where **TRACTAPE_2000.mdb** was saved and select it. Click **O**pen
6. On the Menu Bar click **F**ile, **G**et External **D**ata, **I**mport...
7. In **Files of type:** click the drop down box and select **Text Files (*.txt;*.csv;*.tab;*.asc)**
8. Go to the directory where the TRACTAPE text file (ex. Tractape_2000_76.txt) was saved and select it. Click **I**mport
9. On the **Import Text Wizard Window**, click the **A**dvanced... button.
10. On the Import Specification Window, click the **S**pecs... button.
11. Click on **TRACTAPE 2000 – Text**, Click **O**pen
12. Click **OK** to close window.
13. On the **Import Text Wizard Window**, click the **N**ext >... button.
14. Click the **N**ext >... button again.
15. Choose where you would like to store your data:
 - ◆ Choose **In a New Table** if you would like the data in a new table, or you are importing multiple years. (The table name will be the file name imported).
 - ◆ Choose **In an Existing Table**: choose **TRACTAPE** if you are importing one file.
16. Click the **F**inish button.
17. On the **Import Text Wizard Window**, Click **OK**

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

LOADING TO MICROSOFT ACCESS 2000/2002

1. **Save** the export file (i.e., TRACTAPE_2001_CO_01.TXT) from the CD or e-mail to your hard drive or network drive.
2. **Save** the “empty” Access 97 database file (i.e., TRACTAPE_2000.MDB) from the CD or e-mail to your hard drive or network drive.
3. Open **Microsoft Access 2000/2002**
4. On the Menu Bar click **F**ile, **O**pen Database...
5. Go to the directory where **TRACTAPE_2000.mdb** was saved and select it. Click **O**pen
6. Choose the **Convert Database** option.
7. Save it with a **File name** such as TRACTAPE_2000_ACCESS_2002.MDB. Click **OK** to the conversion message.
8. On the Menu Bar click **F**ile, **G**et External **D**ata, **I**mport...
9. In **Files of type**: click the drop down box and select **Text Files (*.txt;*.csv;*.tab;*.asc)**
10. Go to the directory where the TRACTAPE text file (ex. Tractape_2000_76.txt) was saved and select it. Click **Import**
11. On the **Import Text Wizard Window**, click the **A**dvanced... button.
12. On the Import Specification Window, click the **S**pecs... button.
13. Click on **TRACTAPE 2000 – Text**, Click **O**pen
14. Click **OK** to close window.
15. On the **Import Text Wizard Window**, click the **N**ext >... button.
16. Click the **N**ext >... button again.
17. Choose where you would like to store your data:
 - ◆ Choose **In a New Table** if you would like the data in a new table, or you are importing multiple years. (The table name will be the file name imported).
 - ◆ Choose **In an Existing Table**: choose **TRACTAPE** if you are importing one file.
18. Click the **F**inish button.
19. On the **Import Text Wizard Window**, Click **OK**

OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout

IMPORT NOTES:

Q: I received the following error:

“The database “TRACTAPE_2000” is read only.

You won't be able to save changes made to data or object definitions in this database.”

A: You have opened the database file from a read-only source such as a CD. You must first save the file to your hard drive or network drive before you continue.

A: You may have to change the attribute of the file. Make sure the file is not open. Go to the file in Windows Explorer. Right click on the file and click **Properties**. Under Attributes, if **Read-Only** is checked, click to uncheck it.

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
CRASH INFORMATION		0				
Document Number	DOCNO	11	1	11	Number	Document Number (YYYYPNNNNNN) YYYY-Crash Yr., P-Vendor Prefix #, NNNNNN Numbered Crash (000001- 999999)
Local Report#	LOCAL_REPORT_NUM	10	12	21	Character	Locally Assigned Number
N.C.I.C.#	NCIC	5	22	26	Character	Reporting Agency NCIC - NCIC Lookup Table
#Units	NUMBER_OF_UNITS	2	27	28	Number	Total Number Of Motorist Non-Motorist Involved
Vehicle (Unit) Error	VEHICLE_IN_ERROR	2	29	30	Number	Vehicle # in error 99 No error 98 Animal in error
Crash Severity	CRASH_SEVERITY_FLAG	1	31	31	Number	1 Fatal Injury 2 Injury 3 Property Damage Only (PDO) 4 Unknown
Hit/Skip	HIT_SKIP_FLAG	1	32	32	Number	1 Not Hit/Skip 2 Solved 3 Unsolved 4 Unknown
County#	COUNTY	2	33	34	Number	Code Of County Where Crash Occurred - County Lookup Table
FIPS Place Code	FIPS_PLACE_CODE	5	35	39	Number	FIPS Lookup Table
City, Village, Township	CITY_VILLAGE_TOWNSHIP	1	40	40	Number	Select One 1 City 2 Village 3 Township 4 Unknown
Name (of City, Village or Township)	CITY	30	41	70	Character	
Date of Crash	CRASH_DATE – (Derived from DATE_OF_CRASH field)	8	71	78	Date	MMDDYYYY
Time of Crash	CRASH_TIME – (Derived from DATE_OF_CRASH field)	4	79	82	Date	HHMI (Military Time HH24)
Day of Week	CRASH_DAY - (Derived from DATE_OF_CRASH field)	1	83	83	Number	1 Sunday 2 Monday 3 Tuesday

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						4 Wednesday 5 Thursday 6 Friday 7 Saturday
Crash Prefix	CRASH_PREFIX	1	84	84	Character	N-North S-South E-East W-West
Crash Location	CRASH_LOCATION	28	85	112	Character	Street Name Where Crash Occurred
Crash Location - Road Type – Street Designation	CRASH_LOCATION_ROAD_TYPE	2	113	114	Character	Street Designation - See Appendix A
Type of Location Point Used	TYPE_LOCATION_POINT_USED	1	115	115	Number	1 – Named Street 2 – Numbered Street 3 – Numbered Route
Distance (Miles) from Reference	MILES_FROM_REFERENCE	3	116	118	Number	Number Of Miles From Reference
Direction from Reference	DIRECTION_REFERENCE	1	119	119	Character	N - North S - South E - East W - West
Reference Prefix	REFERENCE_PREFIX	1	120	120	Character	N - North S - South E - East W - West
Reference Point	REFERENCE_POINT	28	121	148	Character	Street Address, Milepost Marker, Intersection Where Crash Occurred
Reference Type (Designation)	REFERENCE_TYPE	2	149	150	Character	AV Avenue BO Boulevard CI Circle CO Court CR County Road DR Drive HE Height HI Highway IR Interstate LA Lane MP Mile Post PA Parkway PI Pike PL Place RO Road

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						SQ Sqaure SR State Route ST Street TE Terrace TR Trail US Federal US Route WA Way *Also see Appendix A for details
Reference Point Used	REFERENCE_POINT_USED	2	151	152	Number	01 State Line 02 Intersection Of Two Streets 03 County Line 04 House Number 05 Township Boundary 06 Mile Post 07 Corporation Limit 08 Place Name Without Reference 09 Driveway 10 Street Or Route Without Reference
Latitude	LATITUDE	10	153	162	Character	Latitude For GPS Location Identification Format: N-Degrees-Minutes-Decimal Seconds
Longitude	LONGITUDE	10	163	172	Character	Longitude For GPS Location Identification Format: W-Degrees-Minutes-Decimal Seconds
Weather	WEATHER	2	173	174	Number	01 Clear 02 Cloudy 03 Fog, Smog, Smoke 04 Rain 05 Sleet, Hail (Freezing Rain Or Drizzle) 06 Snow 07 Severe Crosswinds 08 Blowing Sand, Soil, Dirt, Snow 09 Other 10 Unknown
Road Conditions - Primary	PRIMARY_ROAD_CONDITION	2	175	176	Number	01 Dry 02 Wet 03 Snow 04 Ice 05 Sand, Mud, Dirt, Oil, Gravel

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						06 Water (Standing, Moving) 07 Slush 08 Debris** 09 Rut, Holes, bumps, Uneven Pavement** 10 Other 11 Unknown **Secondary Road Conditions Only
Road Conditions - Secondary	SECONDARY_ROAD_CONDITION	2	177	178	Number	01 Dry 02 Wet 03 Snow 04 Ice 05 Sand, Mud, Dirt, Oil, Gravel 06 Water (Standing, Moving) 07 Slush 08 Debris** 09 Rut, Holes, bumps, Uneven Pavement** 10 Other 11 Unknown **Secondary Road Conditions Only
Light Conditions - Primary	PRIMARY_LIGHT_CONDITION	1	179	179	Number	1 Daylight 2 Dawn 3 Dusk 4 Dark – Lighted Roadway 5 Dark – Roadway Not Lighted 6 Dark – Unknown Roadway Lighting 7 Glare 8 Other 9 Unknown
Light Conditions - Secondary	SECONDARY_LIGHT_CONDITION	1	180	180	Number	1 Daylight 2 Dawn 3 Dusk 4 Dark – Lighted Roadway 5 Dark – Roadway Not Lighted 6 Dark – Unknown Roadway Lighting 7 Glare 8 Other 9 Unknown
Road Contour	ROAD_CONTOUR	1	181	181	Number	1 Straight Level

OHIO DEPARTMENT OF PUBLIC SAFETY Crash TRACTAPE Layout

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						2 Straight Grade 3 Curve Level 4 Curve Grade 5 Unknown
Occurrence	OCCURRENCE	1	182	182	Number	1 On Roadway 2 On Shoulder 3 In Median 4 On Roadside 5 On Gore 6 Outside Trafficway 7 Unknown
Manner of Collision or Impact	COLLISION_TYPE	1	183	183	Number	1 Not Collision Between Two Vehicles in Transport 2 Rear-end 3 Head-on 4 Rear-to-rear 5 Backing 6 Angle 7 Sideswipe, same direction 8 Sideswipe, opposite direction 9 Unknown
Type of Intersection	INTERSECTION_TYPE	2	184	185	Number	01 Not a Intersection 02 Four-way Intersection 03 T-Intersection 04 Y-intersection 05 Traffic circle/roundabout 06 Five-point, or more 07 On ramp 08 Off ramp 09 Crossover 10 Driveway 11 Railway grade crossing 12 Shared-use paths or trails 13 Unknown
School Bus Related	SCHOOL_BUS_RELATED	1	186	186	Number	1 No 2 Yes, School Bus Directly Involved 3 Yes, School Bus Indirectly Involved 4 Unknown
Work Zone Related	WORK_ZONE_RELATED	1	187	187	Number	1 No

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						2 Yes (Complete List Below) 3 Unknown
UNIT 1 INFORMATION		0				
Unit Number – Unit 1	UNITNO_1	2	188	189	Number	Sequential Number Assigned To Uniquely Identify Within each Vehicle/ Non-motorist Involved In The Crash
Number of Occupants – Unit 1	OCCUPANTS_1	2	190	191	Number	Total Number Of Occupants Including The Driver
Insurance – Unit 1	INSURANCE_FLAG_1	1	192	192	Number	1 – Insurance Name Present 2 – No Insurance 3 – None listed
Towing Service – Unit 1	TOWED_FLAG_1	1	193	193	Number	Towed 1 Yes 2 No
Vehicle- Non-motorist –From – Unit 1	VEHICLE_DIRECTION_FROM_1	1	194	194	Number	1 North 2 South 3 East 4 West 5 Northeast 6 Northwest 7 Southeast 8 Southwest 9 Unknown
Vehicle- Non-motorist –To – Unit 1	VEHICLE_DIRECTION_TO_1	1	195	195	Number	1 North 2 South 3 East 4 West 5 Northeast 6 Northwest 7 Southeast 8 Southwest 9 Unknown
Most Damaged Area – Unit 1	DAMAGE_AREA_1	2	196	197	Number	01 None 02 Center Front 03 Right Front 04 Right Side 05 Right Rear 06 Rear Center 07 Left Rear 08 Left Side

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						09 Left Front 10 Top And Windows 11 Undercarriage 12 Load/Trailer 13 Total (All Areas) 14 Other 15 Unknown
Damage Scale – Unit 1	DAMAGE_SCALE_1	1	198	198	Number	1 None 2 Non-Functional 3 Functional Damage 4 Disabling Damage 5 Severe 6 Unknown
Type of Unit – Unit 1	UNIT_TYPE_1	2	199	200	Number	<u>Motorist</u> 01 Sub-Compact 02 Compact 03 Mid Size 04 Full Size 05 Minivan 06 Sport Utility Vehicle 07 Pickup 08 Panel/Van 09 Single Unit Truck; 2 Axles, 6 Tires 10 Single Unit Truck; 3 Or More Axles 11 Truck/Trailer 12 Truck Tractor (Bobtail) 13 Tractor/Semi-Trailer 14 Tractor/Double – Short 15 Tractor/Double – Long 16 Fifth Wheel Or Converter Dolly 17 Tractor/Triples 18 Motorcycle 19 Motorized Bicycle 20 School Bus 21 Church Bus 22 Public Bus 23 Other Bus 24 Police Vehicle 25 Fire Truck 26 Ambulance/Rescue

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						27 Taxi 28 Motor Home 29 Train 30 Farm Vehicle 31 Farm Equipment 32 Snowmobile 33 Construction Equipment 34 All Others <u>Non-motorist</u> 35 Animal W/Rider 36 Animal W/Buggy 37 Bicycle 38 Pedestrian 39 Pedalcyclist (bicycle, tricycle, unicycle, pedal car) 40 Skater 41 Other-non motorist (wheelchair, etc) 42 Unknown
Unit Speed – Unit 1	UNIT_SPEED_1	3	201	203	Number	Speed Of Vehicle
Posted Speed – Unit 1	POSTED_SPEED_1	2	204	205	Number	Speed Limit Of Road
Pre-Crash Actions – Unit 1	PRE_CRASH_ACTIONS_1	2	206	207	Number	Motorist 01 Movements Essentially Straight Ahead 02 Backing 03 Changing Lanes 04 Overtaking/Passing 05 Turning Right 06 Turning Left 07 Making U-Turn 08 Entering Traffic Lane 09 Leaving Traffic Lane 10 Parked 11 Slowing Or Stopped In Traffic 12 Driverless 13 Other 14 Unknown <u>Non-Motorist Action</u> 15 Entering or crossing specified Location

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						16 Walking, running, jogging, playing, cycling 17 Working 18 Pushing vehicle 19 Approaching or leaving vehicle 20 Playing or working on vehicle 21 Standing 22 Other 23 Unknown
Traffic Control – Unit 1	TRAFFIC_CONTROL_1	2	208	209	Number	01 No Controls 02 Stop Sign 03 Yield Sign 04 Traffic Signal 05 Traffic Flashers 06 School Zone 07 Railroad Crossbucks 08 Railroad Flashers 09 Railroad Gates 10 Construction Barricade 11 Police Officer 12 Pavement Markings 13 Crosswalk Lines 14 Walk/Don't Walk 15 Traffic Control Device Inoperative, Missing, Obscured 16 Other 17 Not Reported
Contributing Circumstances, Motorist/Non-Motorist – Unit 1	CIRCUMSTANCES_1	2	210	211	Number	<u>Motorist</u> 01 None 02 Failure to Yield 03 Ran Red Light, or Stop Sign 04 Exceeded Speed Limit 05 Unsafe Speed 06 Improper Turn 07 Left of Center 08 Followed Too Closely/ACDA 09 Improper Lane Change/ Drove Off Road/ Improper Passing 10 Improper Backing

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						11 Improper Start From Parked Position 12 Stopped or Parked Illegally 13 Operating Vehicle In Erratic, Reckless, Careless, Negligent Or Aggressive Manner 14 Swerving to Avoid (Due To Wind, Slippery Surface, Vehicle, Object, Non-Motorist in Roadway, Etc) 15 Failure to Control 16 Vision Obstruction 17 Driver Inattention 18 Fatigue/Asleep 19 Operating Defective Equipment 20 Load Shifting/Falling/Spilling 21 Other Improper Action 22 Unknown <u>Non-motorist</u> 23 None 24 Improper Crossing 25 Darting 26 Lying And/Or Illegally In Roadway 27 Failure To Yield Right Of Way 28 Not Visible (Dark Clothing) 29 Inattentive 30 Failure To Obey Traffic Signs, Signals, Or Officer 31 Wrong Side Of The Road 32 Other 33 Unknown
Vehicle Defects	VEHICLE_DEFECTS_1	2	212	213	Number	01 Turn Signals 02 Head Lamps 03 Tail Lamps 04 Brakes 05 Steering 06 Tire Blowout 07 Worn Or Slick Tires 08 Trailer Equipment Defective 09 Motor Trouble 10 Disabled From Prior Accident 11 Other Defects

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
Sequence of Events – 1 – Unit 1	SEQUENCE_EVENT1_1	2	214	215	Number	Non-Collision 01 Overturn/Rollover 02 Fire/Explosion 03 Immersion 04 Jackknife 05 Cargo/Equipment Loss Or Shift 06 Equipment Failure (Blown Tire, Brake Failure, Etc) 07 Separation Of Units 08 Ran Off Road Right 09 Ran Off Road Left 10 Cross Median/Centerline 11 Downhill Runaway 12 Other Non-Collision 13 Unknown Non-Collision <u>Collision w/Person,Vehicle,Or Object</u> <u>Not Fixed</u> 14 Pedestrian 15 Pedalcycle 16 Railway Vehicle (E.G. Train, Engine) 17 Animal – Farm 18 Animal – Deer 19 Animal – Other 20 Motor Vehicle In Transport 21 Parked Motor Vehicle 22 Work Zone Maintenance Equipment 23 Other Movable Object 24 Unknown Movable Object <u>Collision With Fixed Object</u> 25 Impact Attenuator/Crash Cushion 26 Bridge Overhead Structure 27 Bridge Pier Or Abutment 28 Bridge Parapet 29 Bridge Rail 30 Guardrail Face 31 Guardrail End 32 Median Barrier 33 Highway Traffic Sign Post 34 Overhead Sign Post 35 Light/Luminaries Support

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						36 Utility Pole 37 Other Post, Pole Or Support 38 Culvert 39 Curb 40 Ditch 41 Embankment 42 Fence 43 Mailbox 44 Tree 45 Other Fixed Object (Wall, Building, Tunnel, Etc 46 Work Zone Maintenance Equipment 47 Unknown Fixed Object 48 Other 49 Unknown Select Up To 4 In The Sequence Of Events
Sequence of Events – 2 – Unit 1	SEQUENCE_EVENT2_1	2	216	217	Number	See Sequence of Events - 1
Sequence of Events – 3 – Unit 1	SEQUENCE_EVENT3_1	2	218	219	Number	See Sequence of Events - 1
Sequence of Events – 4 – Unit 1	SEQUENCE_EVENT4_1	2	220	221	Number	See Sequence of Events - 1
First Harmful Event – Unit 1	FIRST_HARMFUL_EVENT_1	2	222	223	Number	See Sequence of Events - 1
Most Harmful Event – Unit 1	MOST_HARMFUL_EVENT_1	2	224	225	Number	See Sequence of Events - 1
Action – Unit 1	ACTION_1	1	226	226	Number	1 Non-contact 2 Non-collision 3 Striking 4 Struck 5 Both striking and struck 6 Unknown
Point of Impact – Unit 1	POINT_OF_IMPACT_1	2	227	228	Number	01 None 02 Center Front 03 Right Front 04 Right Side 05 Right Rear 06 Rear Center 07 Left Rear 08 Left Side 09 Left Front 10 Top And Windows 11 Undercarriage 12 Load/Trailer

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						13 Total (All Areas) 14 Other 15 Unknown
Striking Vehicle: Override/Underride – Unit 1	STRIKING_VEHICLE_OU_1	1	229	229	Number	1 No underride or override 2 Underride, compartment intrusion 3 Underride, no compartment intrusion 4 Underride, compartment intrusion unknown 5 Override, motor vehicle in transport 6 Override, other vehicle 7 Unknown if underride or override
Non-motorist Location Prior to Impact – Unit 1	NON_MOTORIST_LOCATION_1	2	230	231	Number	01 Marked crosswalk at intersection 02 At intersection but no crosswalk 03 Non-intersection crosswalk 04 Driveway access crosswalk 05 In roadway 06 Not in roadway 07 Median (but no on shoulder) 08 Island 09 Shoulder 10 Sidewalk 11 Within 10 feet of roadway (but not shoulder, median, Sidewalk, or island) 12 Beyond 10 feet of roadway(within trafficway) 13 Outside trafficway 14 Shared use paths or trails 15 Unknown

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
Truck/Bus - Cargo Body Type – Unit 1	CARGO_BODY_TYPE_1	2	232	233	Number	01 Not Applicable 02 Bus (Seats More Than 15 People, Including Driver) 03 Van/Enclosed Box 04 Grain/Chips/Gravel 05 Pole 06 Cargo Tank 07 Flatbed 08 Dump 09 Concrete Mixer 10 Auto Transporter 11 Garbage/Refuse 12 Other 13 Unknown
Truck/Bus - Weight (GVWR) – Unit 1	WEIGHT_1	1	234	234	Number	Weight Rating Of Power Unit Of The Motor Vehicle 1 Less Than Or Equal To 10,000 Pounds 2 10,001 – 26,000 3 More Than 26,000
Truck/Bus - CDL Class – Unit 1	CDL_CLASS_1	1	235	235	Character	1 Class A 2 Class B 3 Class C 4 Class M 5 Class D
Truck/Bus - Hazard Materials Placard? – Unit 1	HAZARD_PLACARD_1	1	236	236	Number	1 No 2 Yes 3 Unknown
Truck/Bus - Hazardous Material Released – Unit 1	HAZARDOUS_SPILL_1	1	237	237	Number	1 No – Hazardous Materials Not Released 2 Yes – Hazardous Materials Released 3 Not Applicable 4 Unknown
UNIT 1 – People		0				
Driver Age – Unit 1	AGE_1	3	238	240	Number	Age of Occupant
Driver Gender (Sex) – Unit 1	GENDER_1	1	241	241	Character	F Female M Male U Unknown
Transported to Medical Facility By –	MEDICAL_TRANSPORT_BY_1	1	242	242	Number	1 Not Transported

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
Unit 1						2 EMS 3 Police 4 Other 5 Unknown
Safety Equipment Used – Unit 1	SAFETY_EQUIP_USED_1	2	243	244	Number	<u>Motorist</u> 01 None Used – Vehicle Occupant 02 Shoulder Belt Only Used 03 Lap Belt Only Used 04 Shoulder And Lap Belt Used 05 Child Safety Seat Used 06 Helmet Used 07 Restraint Use Unknown <u>Non-motorist</u> 08 None Used 09 Helmet used 10 Protective pads used (elbows, knees, shins, etc) 11 Reflective clothing 12 Lighting 13 Other 14 Unknown
Air Bag Usage – Unit 1	AIR_BAG_USAGE_1	1	245	245	Number	1 Not-Deployed 2 Deployed-Front 3 Deployed-Side 4 Deployed Both Front/Side 5 Not Applicable 6 Deployment Unknown
Injuries – Unit 1	INJURIES_1	1	246	246	Number	1 No Injury 2 Possible 3 Non-Incapacitating 4 Incapacitating 5 Fatal Injury 6 Unknown
Condition – Unit 1	CONDITION_1	1	247	247	Number	1 Apparently Normal 2 Physical Impairment 3 Emotional (E.G., Depressed, Angry, Disturbed) 4 Illness 5 Fell Asleep, Fainted, Fatigued, Etc 6 Under The Influence Of

OHIO DEPARTMENT OF PUBLIC SAFETY Crash TRACTAPE Layout

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						Medications/Drugs/Alcohol 7 Other 8 Unknown
Alcohol/Drugs Suspected – Unit 1	ALCOHOL_DRUGS_SUSPECTED_1	1	248	248	Number	1 None 2 Yes – Alcohol Suspected 3 Yes – HBD Not Impaired 4 Yes – Drugs Suspected 5 Yes – Alcohol And Drugs Suspected 6 Unknown
UNIT 2 INFORMATION		0				
Unit Number – Unit 2	UNITNO_2	2	249	250	Number	See Values for Unit 1
Number of Occupants – Unit 2	OCCUPANTS_2	2	251	252	Number	
Insurance – Unit 2	INSURANCE_FLAG_2	1	253	253	Number	
Towing Service – Unit 2	TOWED_FLAG_2	1	254	254	Number	
Vehicle- Non-motorist –From – Unit 2	VEHICLE_DIRECTION_FROM_2	1	255	255	Number	
Vehicle- Non-motorist –To – Unit 2	VEHICLE_DIRECTION_TO_2	1	256	256	Number	
Most Damaged Area – Unit 2	DAMAGE_AREA_2	2	257	258	Number	
Damage Scale – Unit 2	DAMAGE_SCALE_2	1	259	259	Number	
Type of Unit – Unit 2	UNIT_TYPE_2	2	260	261	Number	
Unit Speed – Unit 2	UNIT_SPEED_2	3	262	264	Number	
Posted Speed – Unit 2	POSTED_SPEED_2	2	265	266	Number	
Pre-Crash Actions – Unit 2	PRE_CRASH_ACTIONS_2	2	267	268	Number	
Traffic Control – Unit 2	TRAFFIC_CONTROL_2	2	269	270	Number	
Contributing Circumstances, Motorist/Non-Motorist – Unit 2	CIRCUMSTANCES_2	2	271	272	Number	
Vehicle Defects – Unit 2	VEHICLE_DEFECTS_2	2	273	274	Number	
Sequence of Events – 1 – Unit 2	SEQUENCE_EVENT1_2	2	275	276	Number	
Sequence of Events – 2 – Unit 2	SEQUENCE_EVENT2_2	2	277	278	Number	
Sequence of Events – 3 – Unit 2	SEQUENCE_EVENT3_2	2	279	280	Number	
Sequence of Events – 4 – Unit 2	SEQUENCE_EVENT4_2	2	281	282	Number	
First Harmful Event – Unit 2	FIRST_HARMFUL_EVENT_2	2	283	284	Number	
Most Harmful Event – Unit 2	MOST_HARMFUL_EVENT_2	2	285	286	Number	
Action – Unit 2	ACTION_2	1	287	287	Number	
Point of Impact – Unit 2	POINT_OF_IMPACT_2	2	288	289	Number	
Striking Vehicle: Override/Underride – Unit 2	STRIKING_VEHICLE_OU_2	1	290	290	Number	
Non-motorist Location Prior to Impact – Unit 2	NON_MOTORIST_LOCATION_2	2	291	292	Number	

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
Truck/Bus - Cargo Body Type – Unit 2	CARGO_BODY_TYPE_2	2	293	294	Number	
Truck/Bus - Weight (GVWR) – Unit 2	WEIGHT_2	1	295	295	Number	
Truck/Bus - CDL Class – Unit 2	CDL_CLASS_2	1	296	296	Character	
Truck/Bus - Hazard Materials Placard? – Unit 2	HAZARD_PLACARD_2	1	297	297	Number	
Truck/Bus - Hazardous Material Released – Unit 2	HAZARDOUS_SPILL_2	1	298	298	Number	
UNIT 2 – People		0				
Driver Age – Unit 2	AGE_2	3	299	301	Number	
Driver Gender (Sex) – Unit 2	GENDER_2	1	302	302	Character	
Transported to Medical Facility By – Unit 2	MEDICAL_TRANSPORT_BY_2	1	303	303	Number	
Safety Equipment Used – Unit 2	SAFETY_EQUIP_USED_2	2	304	305	Number	
Air Bag Usage – Unit 2	AIR_BAG_USAGE_2	1	306	306	Number	
Injuries – Unit 2	INJURIES_2	1	307	307	Number	
Condition – Unit 2	CONDITION_2	1	308	308	Number	
Alcohol/Drugs Suspected – Unit 2	ALCOHOL_DRUGS_SUSPECTED_2	1	309	309	Number	
UNIT 3 INFORMATION		0				
Unit Number – Unit 3	UNITNO_3	2	310	311	Number	See Values for Unit 1
Number of Occupants – Unit 3	OCCUPANTS_3	2	312	313	Number	
Insurance – Unit 3	INSURANCE_FLAG_3	1	314	314	Number	
Towing Service – Unit 3	TOWED_FLAG_3	1	315	315	Number	
Vehicle- Non-motorist –From – Unit 3	VEHICLE_DIRECTION_FROM_3	1	316	316	Number	
Vehicle- Non-motorist –To – Unit 3	VEHICLE_DIRECTION_TO_3	1	317	317	Number	
Most Damaged Area – Unit 3	DAMAGE_AREA_3	2	318	319	Number	
Damage Scale – Unit 3	DAMAGE_SCALE_3	1	320	320	Number	
Type of Unit – Unit 3	UNIT_TYPE_3	2	321	322	Number	
Unit Speed – Unit 3	UNIT_SPEED_3	3	323	325	Number	
Posted Speed – Unit 3	POSTED_SPEED_3	2	326	327	Number	
Pre-Crash Actions – Unit 3	PRE_CRASH_ACTIONS_3	2	328	329	Number	
Traffic Control – Unit 3	TRAFFIC_CONTROL_3	2	330	331	Number	
Contributing Circumstances, Motorist/Non-Motorist – Unit 3	CIRCUMSTANCES_3	2	332	333	Number	
Vehicle Defects - Unit 3	VEHICLE_DEFECTS_3	2	334	335	Number	
Sequence of Events – 1 – Unit 3	SEQUENCE_EVENT1_3	2	336	337	Number	
Sequence of Events – 2 – Unit 3	SEQUENCE_EVENT2_3	2	338	339	Number	
Sequence of Events – 3 – Unit 3	SEQUENCE_EVENT3_3	2	340	341	Number	

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
Sequence of Events – 4 – Unit 3	SEQUENCE_EVENT4_3	2	342	343	Number	
First Harmful Event – Unit 3	FIRST_HARMFUL_EVENT_3	2	344	345	Number	
Most Harmful Event – Unit 3	MOST_HARMFUL_EVENT_3	2	346	347	Number	
Action – Unit 3	ACTION_3	1	348	348	Number	
Point of Impact – Unit 3	POINT_OF_IMPACT_3	2	349	350	Number	
Striking Vehicle: Override/Underride – Unit 3	STRIKING_VEHICLE_OU_3	1	351	351	Number	
Non-motorist Location Prior to Impact – Unit 3	NON_MOTORIST_LOCATION_3	2	352	353	Number	
Truck/Bus - Cargo Body Type – Unit 3	CARGO_BODY_TYPE_3	2	354	355	Number	
Truck/Bus - Weight (GVWR) – Unit 3	WEIGHT_3	1	356	356	Number	
Truck/Bus - CDL Class – Unit 3	CDL_CLASS_3	1	357	357	Character	
Truck/Bus - Hazard Materials Placard? – Unit 3	HAZARD_PLACARD_3	1	358	358	Number	
Truck/Bus - Hazardous Material Released – Unit 3	HAZARDOUS_SPILL_3	1	359	359	Number	
UNIT 3 – People		0				
Driver Age – Unit 3	AGE_3	3	360	362	Number	
Driver Gender (Sex) – Unit 3	GENDER_3	1	363	363	Character	
Transported to Medical Facility By – Unit 3	MEDICAL_TRANSPORT_BY_3	1	364	364	Number	
Safety Equipment Used – Unit 3	SAFETY_EQUIP_USED_3	2	365	366	Number	
Air Bag Usage – Unit 3	AIR_BAG_USAGE_3	1	367	367	Number	
Injuries – Unit 3	INJURIES_3	1	368	368	Number	
Condition – Unit 3	CONDITION_3	1	369	369	Number	
Alcohol/Drugs Suspected – Unit 3	ALCOHOL_DRUGS_SUSPECTED_3	1	370	370	Number	
PEDESTRIAN INFORMATION		0				
Driver Age – Pedestrian	PED_AGE	3	371	373	Number	See Values for Unit 1
Driver Gender (Sex) – Pedestrian	PED_GENDER	1	374	374	Character	
Transported to Medical Facility By – Pedestrian	PED_MEDICAL_TRANSPORT_BY	1	375	375	Number	
Injuries – Pedestrian	PED_INJURIES	1	376	376	Number	
Condition – Pedestrian	PED_CONDITION	1	377	377	Number	
Alcohol/Drugs Suspected – Pedestrian	PED_ALCOHOL_DRUGS_SUSPECTED	1	378	378	Number	
Pre-Crash Actions - Pedestrian	PED_PRE_CRASH_ACTIONS	2	379	380	Number	
Contributing Circumstances –	PED_CIRCUMSTANCES	2	381	382	Number	

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
Pedestrian						
Action - Pedestrian	PED_ACTION	1	383	383	Number	
Non-motorist Location Prior to Impact – Pedestrian	PED_NON_MOTORIST_LOCATION	2	384	385	Number	
GENERATED CRASH INFORMATION		0				
Total Injured	TOTAL_INJURED	3	386	388	Number	Generated Field
Total Killed	TOTAL_KILLED	3	389	391	Number	Generated Field
Total – No Injuries	TOTAL_INJURIES_1	3	392	394	Number	Generated Field
Total – Possible Injuries (Non-Visible Claimed)	TOTAL_INJURIES_2	3	395	397	Number	Generated Field
Total – Non-Incapacitating Injuries (Minor Visible)	TOTAL_INJURIES_3	3	398	400	Number	Generated Field
Total – Incapacitating Injuries (Serious Visible)	TOTAL_INJURIES_4	3	401	403	Number	Generated Field
Total – Fatal Injuries (Deaths)	TOTAL_INJURIES_5	3	404	406	Number	Generated Field
Total – Unknown Injuries (Not Stated)	TOTAL_INJURIES_6	3	407	409	Number	Generated Field
Total – Pedestrians	TOTAL_PED	3	410	412	Number	Generated Field
Total – Pedestrian Injuries	TOTAL_PED_INJURIES	3	413	415	Number	Generated Field
Total – Pedestrian Fatalities (Deaths)	TOTAL_PED_DEATHS	3	416	418	Number	Generated Field
Alcohol Related	ALCOHOL_RELATED	1	419	419	Number	Generated Field 0 No 1 Yes -Alcohol/Drugs Suspected in Yes-Alcohol Suspected (2), Yes-HBD Not Impaired (3), or Yes- Alcohol/ Drugs Suspected (5)
Drug Related	DRUG_RELATED	1	420	420	Number	Generated Field 0 No 1 Yes -Alcohol/Drugs Suspected in Yes-Drugs Suspected (4) or Yes- Alcohol/ Drugs Suspected (5)
Animal Related	ANIMAL_RELATED	1	421	421	Number	Generated Field 0 No Animal Involved 1 Animal - Deer 2 Animal - Farm 3 Animal - Other -Sequence of Events (1,2,3,or 4) contains Animal – Deer (18), Animal –

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
						Farm (17) or Animal – Other (19)
Bicycle Related	BICYCLE_RELATED	1	422	422	Number	Generated Field 0 No 1 Yes -Unit Type of Bicycle (37) or Pedalcyclist (39) Involved
Motorcycle Related	MOTORCYCLE_RELATED	1	423	423	Number	Generated Field 0 No 1 Yes -Unit Type of Motorcycle (18) Involved (does NOT include Motorized Bicycle (19))
Speed Related	SPEED_RELATED	1	424	424	Number	Generated Field 0 No 1 Yes -Circumstances of Exceeded Speed Limit (4) or Unsafe Speed (5) or Unit Speed greater than Posted Speed (when posted speed is not null or 0)
Pedestrian Related	PEDESTRIAN_RELATED	1	425	425	Number	Generated Field 0 No 1 Yes -Unit Type of Pedestrian (38) or Skater (40) Involved
Semi-Truck Related	SEMI_TRUCK_RELATED	1	426	426	Number	Generated Field 0 No 1 Yes -Unit Type of Truck/Tractor-Bobtail (12), Tractor/Semi-Trailer (13), Tractor/Double-Short (14), Tractor/Double-Long (15) or Tractor/Triples (17) Involved
Small Truck Related	SMALL_TRUCK_RELATED	1	427	427	Number	Generated Field 0 No 1 Yes -Unit Type Pickup (7), Panel/Van (8), Single Unit Truck; 2 Axles, 6 Tires (9), Single Unit Truck; 3 or More Axles (10), Truck/Trailer (11), Fifth Wheel Or Converter Dolly (16) Involved

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Description	Column Name	Field Size	Position Start	Position End	Data Type	Value Description
Youth Related	YOUTH_RELATED	1	428	428	Number	Generated Field 0 No 1 Yes -Driver Age 16-25 Involved
Teen Related	TEEN_RELATED	1	429	429	Number	Generated Field 0 No 1 Yes -Driver, Occupant or Pedestrian Age 12-20 Involved
Drinking Driver < 21 Related	DUI_21_RELATED	1	430	430	Number	Generated Field 0 No 1 Yes -Drinking Driver < 21 Involved
Senior Related	SENIOR_RELATED	1	431	431	Number	Generated Field 0 No 1 Yes -Driver Age 65 and Over Involved
Space for Expansion	FILLER_01	14	432	445		
ODOT INFORMATION		0				
Space for ODOT Information to be added at a future date.	FILLER_02	50	446	495		
		495				

Changes to Crash TRACTAPE Layout since 12/17/2001:
10/30/2002 Import Documentation Instruction updated.

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Appendix A Location Format

Break out into two separate fields

Position 84-111 Crash Location (CRASH_LOCATION)
Position 112-113 Street Designation (CRASH_LOCATION_ROAD_TYPE)

Crash Location

If Type of Location Point Used (TYPE_LOCATION_POINT_USED) = 1 (named street)
Street name in Crash location (CRASH_LOCATION)

In street designation (CRASH_LOCATION_ROAD_TYPE) use from the following list

- AV = Avenue
- BO = Boulevard
- CI = Circle
- CO = Court
- DR = Drive
- HE = Heights
- HI = Highway
- LA = Lane
- PA = Parkway
- PI = Pike
- PL = Place
- RO = Road
- SQ = Square
- ST = Street
- TE = Terrace
- TR = Trail
- WA = Way

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Appendix A Location Format (Continued)

If Type of Location Point Used (TYPE_LOCATION_POINT_USED) = 2 (numbered street)

Change all numbered streets to a number example Fourth St change to '0004' in Crash Location (CRASH_LOCATION)

In street designation (CRASH_LOCATION_ROAD_TYPE) use from the following list

AV = Avenue
BO = Boulevard
CI = Circle
CO = Court
DR = Drive
HE = Heights
HI = Highway
LA = Lane
PA = Parkway
PI = Pike
PL = Place
RO = Road
SQ = Square
ST = Street
TE = Terrace
TR = Trail
WA = Way

If Type of Location Point Used (TYPE_LOCATION_POINT_USED) = 3 (numbered route)

Report all numbered routes in numeric format example SR62 is reported as 0062 in the Crash Location (CRASH_LOCATION)

In street designation (CRASH_LOCATION_ROAD_TYPE) use from the following list

IR = Interstates
US = Federal US Routes
SR = State Routes
CR = Numbered County Road
TR = Numbered Township Road

**OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout**

Appendix A Location Format (Continued)

Reference

Break out in two separate fields

Position 120-147 Reference Point (REFERENCE_POINT)
Position 148-149 Reference Designation (REFERENCE_TYPE)

If Reference Point Used = 01 (state line)
(REFERENCE_POINT_USED) 03 (county line)
 04 (house number)
 05 (township boundary)
 07 (corporation limit)
 08 (place name without reference)
 09 (driveway)
 10 (street of route without reference)

Place name of reference point on Reference Point (REFERENCE_POINT)
Place spaces in Reference Designation (REFERENCE_TYPE)

If Reference Point Used (REFERENCE_POINT_USED) = 02 (intersection of two streets)
Place name of street in Reference Point (REFERENCE_POINT)
Place reference Designation use the listing under the location description (REFERENCE_TYPE)

If Reference Point Used (REFERENCE_POINT_USED) = 06 (milepost)
Place number of mile post in Reference Point (REFERENCE_POINT) using the following example MP15 report as 0015
Place 'MP' in Reference Designation (REFERENCE_TYPE)

OHIO DEPARTMENT OF PUBLIC SAFETY
Crash TRACTAPE Layout

Distance from Reference (Miles from Reference):

DISTANCE CHART

1ft - 53ft = 001
54ft - 106ft = 002
107ft - 159ft = 003
160ft - 212ft = 004
213ft - 265ft = 005
266ft - 318ft = 006
319ft - 371ft = 007
372ft - 424ft = 008
425ft - 477ft = 009
478ft - 530ft = 010
1/8 mile = 012
1/5 mile = 017
1/4 mile = 025
1/3 mile = 033
1/2 mile = 050
1 mile = 100

1060' = 020
1590' = 030
2120' = 040
2650' = 050
3180' = 060
3710' = 070
4240' = 080
4770' = 090
5300' = 100