



2017 Risk Assessment

(812) 858-4200 • 4333 Epworth Road • www.otfd.org
Newburgh, IN 47630



Ohio Township Fire Department

4333 Epworth Road · Newburgh, IN
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Assistant Chief
Shawn Huffman

Assistant Chief
Maury Nichols

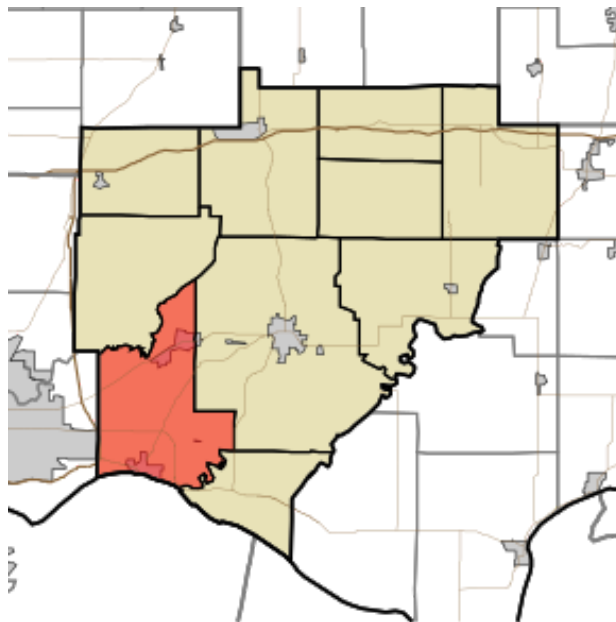
Administrative Division

The Township

Ohio Township is one of the ten townships of Warrick County, Indiana. As of the 2015 census, the township population was 38,083 with 14,922 housing units. Ohio Township contains 63% of Warrick County's population, is the third largest township population in Southern Indiana and is one of the fastest growing townships in the state. Ohio Township's population grew 21.8% from the 2000 census to the 2010 census.

Geography

According to the 2010 census, the township has a total area of 44.37 square miles, of which 44.14 (99.48%) square miles is land and 0.23 (0.52%) square miles is water.





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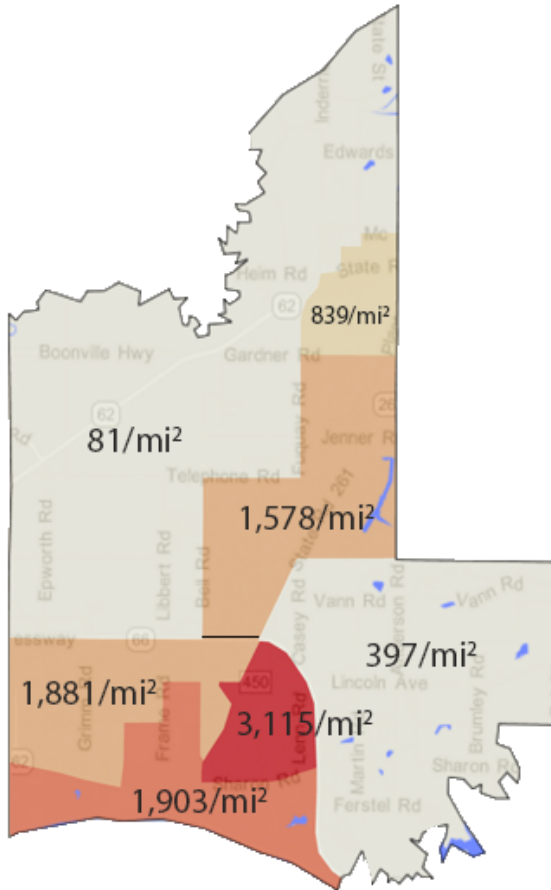
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Population Demographic

Age Demographic



Population Per Square Mile

Age Range	Population	Percentage
70+	3,435.16	9.10%
60-69	4,265.64	11.30%
50-59	5,813.35	15.40%
40-49	5,435.86	14.40%
30-39	4,378.88	11.60%
20-29	3,812.65	10.10%
Under 20	10,607.47	28.10%

Race and Ethnicity Demographic

Race and Ethnicity	Population	Percentage
White	35,200	92.4%
Hispanic	697	1.8%
Black	502	1.3%
Asian	732	1.9%
Mixed	836	2.2%
Other	114	0.3%



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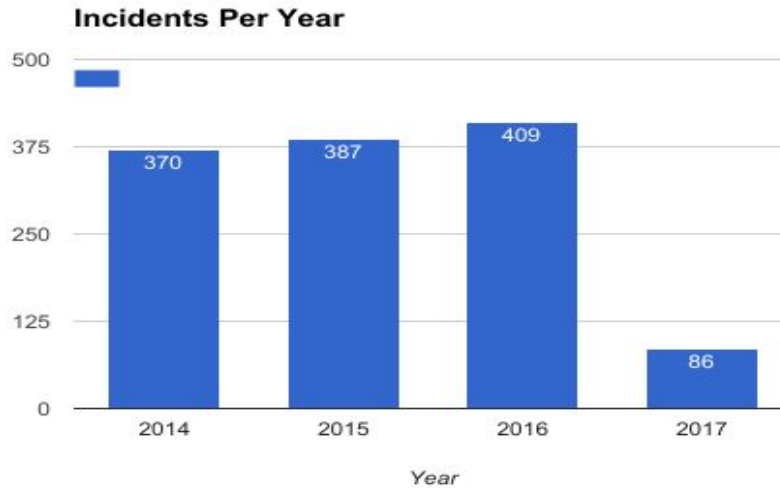
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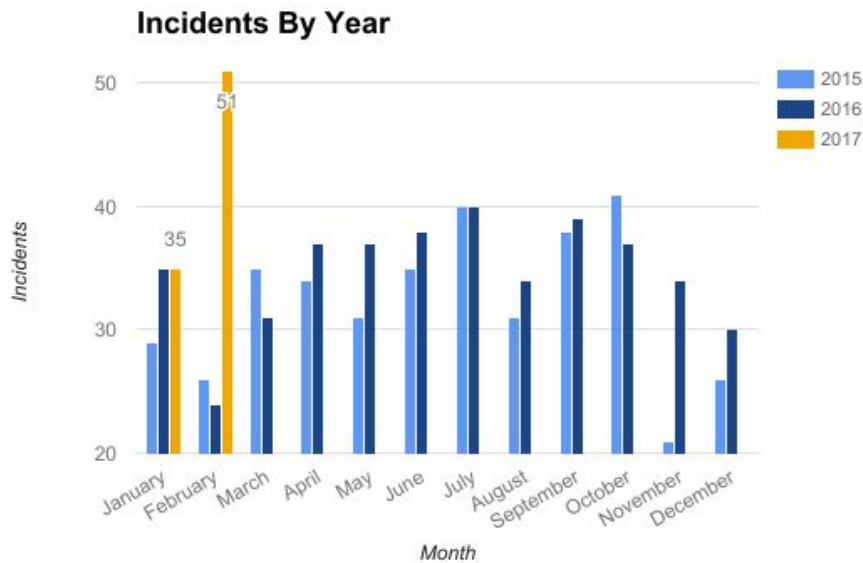
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Incident Data

The Ohio Township Fire Department over a course of 38 months, from January 1st, 2014 to February 28th, 2017, responded to 1,252 incidents.



Data has shown a 4.59% increase in incidents from 2014 to 2015 and a 5.68% increase from 2015 to 2016. For 2017 YTD, data has shown a 44.07% increase from the same period of time in 2016.





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Box Response System

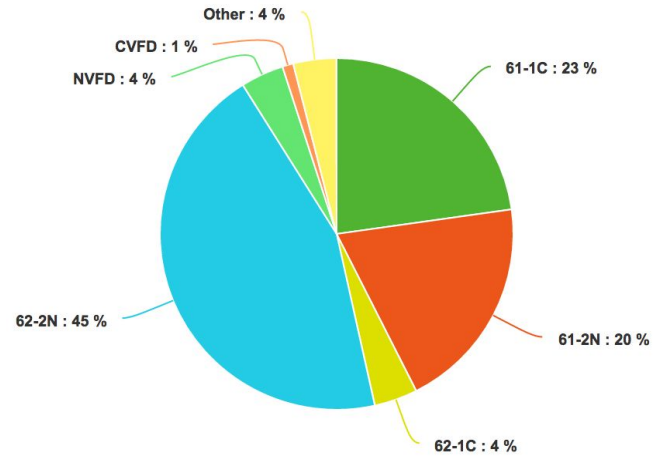
Ohio Township Fire Department operates on a box response system to ensure the correct amount of personnel respond based on the incident nature. The box response system also pre assigns incoming apparatus' task so that crews immediately know their job, saving precious time.

The response district has been divided into 4 locations.

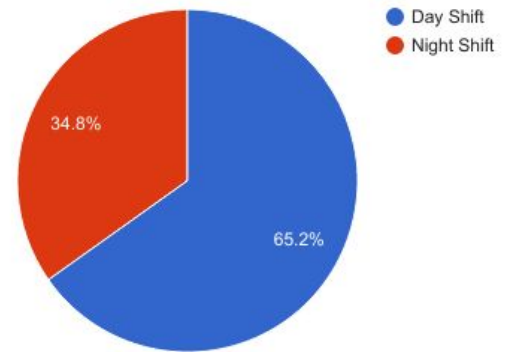


Incident Demographics

Box Locations



Shift Response





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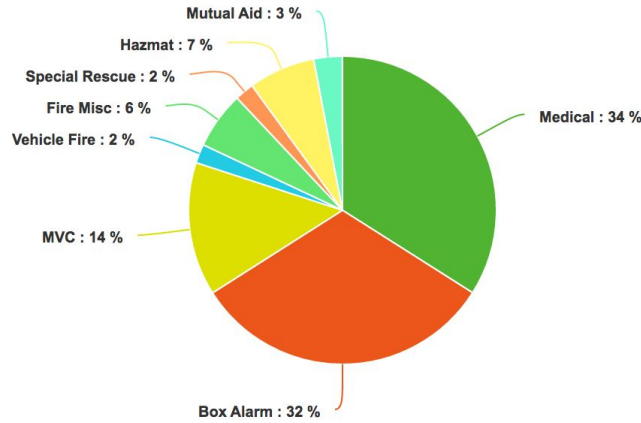
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Box Types



Box Alarm: Automatic alarm, smell of smoke, investigation of smoke, chimney fire, possible structure fire, or any other incident involving the potential of a fire in a structure.

Medical: Unconscious, fall, diabetic, MI/heart attack, CVA/stroke, self-inflicted injuries, traumas unrelated to an MVC, difficulty breathing, or any other incident where the primary task is to provide medical care.

Motor Vehicle Collision (MVC): Any incident involving one or more vehicles colliding with another object.

Hazmat:

Type 1: Any incident involving materials that **do not** pose a serious health and/or safety hazard to persons, structures or the environment.

Type 2: Any incident involving materials that **may** pose a serious health and/or safety hazard to persons, structures or the environment.

Type 3: Any incident involving materials that **will** pose a serious health and/or safety hazard to persons, structures or the environment.

Fire Miscellaneous: Grass fire, trash fire, dumpster fire, transformer fire, or any other incident involving fire unrelated to a structure or vehicle.

Vehicle Fire: Any incident where the primary task is to extinguish fire in a vehicle (e.g. car, truck, semi)

Special Rescue: Rope rescue, confined space rescue, water rescue, lock out, elevator rescue, trench rescue, etc.

Mutual Aid: Any request for response outside of Ohio Township Fire Department's contracted area.



Box Alarm Risk Assessment

After analysis of the contracted coverage area and data provided from the 2014-2017 YTD responses, the response to a structure fire has been broken into three occupancy category: Category 1 Residential, Category 2 Commercial/Multi-Family, Category 3 High-Risk.

Category 1: Residential Findings:

The risk assessment of these types of dwellings show the typical hazards that would be expected. The assessment shows atypical findings including an extremely high number of structures built with ultra-lightweight construction. This type of construction is associated with extremely high B.T.U. output with fire events occurring as early as five minutes from incipient, along with low to zero warning of catastrophic structural failure occurring in under 10 minutes.

Along with the higher number of ultra-lightweight construction it was noted a large number of structures built in close proximity of other structures. Adding this with the extreme B.T.U. output we rate the risk of conflagration as high to severe risk without quick and aggressive intervention from the fire department.

Tactical Recommendations:

After review of findings for category 1 fires, the Tactical Division has concluded the following recommendations in terms of box assignment, high-GPM delivery and use of class A foam.

Box Assignment:

The following is the recommended response for a category 1 residential:

- 3 Engines (attack/investigation, primary water supply, secondary water supply/relay pump)
- 2 Rescues (high-risk search & rescue, firefighter safety & rescue)
- 1 Truck (search and rescue/ventilation/forced entry)
- 1 Chief (incident command)

Recommended Personnel: 24 working crew + 1 chief.

High-GPM Delivery:

1. Preconnected small/mid-range handlines changed from 1.75" dj attack line to 1.88" dj attack lines.

The Tactical Division completed a study of the 1.75" vs the 1.88" handlines and found that depending on the nozzle used, the 1.88" handlines were able to deliver over 100 GPM more than the 1.75" with no detrimental loss in maneuverability.

Engine 62 and Truck 62's have been replaced with the recommended attack line sizes. **Engine 63 and Rescue 64 still require replacement hose.**



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2. Preconnected small/mid-range handlines' nozzle switched over to one smooth-bore with 1" tip, one high-flow combination and one hybrid nozzle.

The Tactical Division completed a study on the above stated nozzles and found the following:

- Smooth-bore with 1" tip with 200' of 1.88" dj attack line was able to flow 310 GPM @ 80 PSI nozzle pressure.
- High-flow combination with 200' of 1.88" dj attack line was able to flow 370 GPM @ 100 PSI nozzle pressure.
- Hybrid with 200' of 1.88" dj attack line was able to flow 400 GPM @ 135 PSI nozzle pressure. The hybrid nozzle was also had the best ability to apply Class A Foam.

Engine 62, Rescue 64 and Truck 62's nozzles have all been replaced with the recommended nozzles.

Engine 63 still require the replacement nozzles.

3. Preconnected large range handline switched over to a gated 2.5" wye with two 2.5" smooth-bore nozzles with 1.125" tip with 200' of 2.5" dj attack line preconnected.

The Tactical Division completed a study and found that the 2.5" smooth-bore with 1.125" tip was able to flow 550 GPM @ 80 PSI nozzle pressure.

Engine 62 has been replaced with the recommended setup. **Engine 63 and Rescue 64 still require the upgrades.**

4. Master stream changed to a smooth-bore with minimum 1.75" tip

The Tactical Division completed a study and found that the Akon Apollo 3" preconnected master stream with 1.75" tip was able to flow 1140 GPM @ 150 PSI nozzle pressure.

Engine 62 and Engine 63 masterstream have all been replaced with the recommended setup. **Rescue 64 still require the upgrades.**



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Class A Foam:

Phos-Check W.D. 881 Class A Foam should be applied to all fires at a rate of .04% for initial attack and a rate of .06% for overhaul.

A study completed on the uses of Class A Foam when applied properly decreased knockdown time by almost half and due to the affinity for carbon W.D. 881 will scrub the carbon out of the products of combustion reducing the risk of a violent fire events such as flashovers.

Engine 62 and Engine 63 have foam pro 2002 foam systems. **Rescue 64 and Truck 62 still require the upgrade.**

Category 2: Commercial / Multi-family Residential Findings:

The risk assessment of these types of dwellings show the typical hazards that would be expected. The assessment shows atypical findings including a large volume built with open bar-truss construction, which is associated with early catastrophic failure.

Multi-family dwellings included a high number of structures built with ultra-lightweight construction. This type of construction is associated with extremely high B.T.U. output with fire events occurring as early as five minutes from incipient, along with low to zero warning of catastrophic structural failure occurring in under 10 minutes. Inspection of multi-family dwellings found most to have sprinkler system, but the systems are residential grade supplied by the municipal water main. These systems are designed to handle small incipient stage fires and can easily be over ran by the fire load.

Tactical Recommendations:

After review of the findings for category 2 fires, the Tactical Division has concluded the following recommendations in terms of box assignment and VEIS training.

Box Assignment:

The following is the recommended response for a category 2 commercial/mult-family:

- 4 Engines (attack/investigation, primary water supply/FDC, primary/secondary water supply, secondary water supply/relay pump)
- 2 Rescues (high-risk search & rescue, firefighter safety & rescue)
- 2 Trucks (search and rescue/ventilation/forced entry, roof access/elevated master stream)
- 1 Chief (incident command)

Recommended Personnel: 32 working crew + 1 chief.



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VEIS:

All crews will be trained in Venter Enter Isolate Search (VEIS). All Truck and Rescue Captains are to analysis a structure for VEIS opportunities and are authorized to deploy a VEIS if pre-determined criterias are met.

Category 3: High-Risk Findings:

The risk assessment of these categories of dwellings show the typical hazards that would be expected. The assessment shows atypical findings including many protect in place (PIP) dwellings, that include a large number of occupants that are non-ambulatory and/or limited ability to evacuate under their own power.

Tactical Recommendations:

After review of the findings for category 3 fires, the Tactical Division has concluded the following recommendations in terms of box assignment.

Box Assignment:

The following is the recommended response for a category 3 High-risk:

- 5 Engines (attack/investigation, primary water supply/FDC, primary/secondary water supply, secondary water supply/relay pump)
- 3 Rescues (high-risk search & rescue, firefighter safety & rescue)
- 3 Trucks (search and rescue/ventilation/forced entry, roof access/elevated master stream, non-ambulatory rescue)
- 2 Chiefs (incident command, operations)

Recommended Personnel: 44 working crew + 2 chiefs.

Further group recommendations for Category 3 buildings are unavailable due to extreme differences in types of structures, see individual IAPs for further information.



Medical Risk Assessment

Findings:

After analysis of the contracted coverage area and data provided from the 2014-2017 YTD responses, it was determined that there has been a steep increase in medical responses required by the department.

Tactical Recommendations:

After review of the findings for medical incidents, the Tactical Division has concluded the following recommendations in terms of box assignment and necessary certifications.

Box Assignment:

The following is the recommended response for a medical incident:

- 1 Squad from station (Squad 61 or Squad 62)
- 1 manned Squad (Squad 60)

Recommended Personnel: 6 working crew + 1 chief.

Certifications:

All rostered firefighters should obtain a minimum certification as an Emergency Medical Responder. The department currently has 35 certified medical responders including EMR, EMT and EMT-P.

The Medical and Tactical Division concluded the most cost-effective option is to reinstitute the Medical Training Center with the State of Indiana. Ohio Township Fire Department has one primary instructor (PI) on staff, and recommends to have at least two additional primary instructors to assist with class load.



Motor Vehicle Collision Risk Assessment

Findings:

After analysis of the contracted coverage area and data provided from the 2014-2017 YTD responses, it was found that there is a higher than average number of motor vehicle collisions require extrication. Of the MVCs require extrication, 25% were upgraded to SOD extrications.

The assessment showed the normal amount of incidents expected in the majority of the district. The assessment shows atypical increase of incidents when looking at three intersections: Highway 66/Epworth Road, Highway 62/Epworth Road and Vann Road/Anderson Road. Data from these intersections shown a high-volume of multiple SOD extrications due to heavy entrapment, commercial vehicle involvement or mass casualty incidents (greater than 5 patients).

Tactical Recommendations:

After review of the findings for motor vehicle collisions, the Tactical Division has concluded the following recommendations in terms of box assignment and cross training.

Box Assignment:

The following is the recommended response for a medical incident:

- 2 Rescues (extrication, patient care)
- 1 Squad (patient care, hazmat)
- 1 Chief (incident command)

Recommended Personnel: 12 working crew + 1 chief.

SOD Assignment:

The following is the recommended upgrade in the event of heavy entrapment, MCI, etc.

- 1 Rescue (extrication, patient care)
- 1 Engine (fire suppression)
- 1 Squad (patient care, hazmat)

Recommended Personnel: 12 working crew

Cross Training:

It is recommended that cross training be done with local heavy wrecker services.



Hazmat Risk Assessment

Findings:

After analysis of the contracted coverage area and data provided from the 2014-2017 YTD responses, S.A.R.A. Title III, and traffic flow patterns from the L.E.P.C. the following structures were found to have elevated or high risk.

Structure:

- Gateway Hospital: High
- Gateway Women's Hospital: Elevated
- Midwest Radiologic Imaging: High
- Chancellor Center for Oncology: Elevated
- ProRehab: Elevated
- Oncology Hematology Associates: Elevated
- Spec Ops Ammo: High
- Bio-Diesel Plant: High

A study was conducted by the Warrick County Local Emergency Planning Committee (L.E.P.C.) to inspect the flow of hazardous material traffic on the roadways of Warrick County. Results of the study showed the following:

- Highway 66 has a rate of 114 qualifying vehicles per daylight hour
- Interstate 69 North has a rate of 126 qualifying vehicles per daylight hour
- Interstate 69 South has a rate of 118 vehicles per daylight hour
- State Road 261 has a rate of 16 qualifying vehicles per daylight hour

An average of 374 commercial-qualifying vehicles travel through the contracted area of Ohio Township Fire Department per daylight hour.

During the same study, the following amounts of vehicles were placard vehicles:

- Highway 66 averaged 6.92% of the qualifying vehicles, 7.88 vehicles per hour
- Interstate 69 North averaged 6.28% of the qualifying vehicles, 7.91 vehicles per hour
- Interstate 69 South averaged 6.78% of the qualifying vehicles, 8.00 vehicles per hour
- State Road 261 averaged 4.03% of the qualifying vehicles, 0.65 vehicles per hour

An average of 24.44 vehicles with hazardous cargo travel through the contracted area of Ohio Township Fire Department per daylight hour.



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The study also showed the following chemicals being transported:

- 1017 - Chlorine Gas - Poisonous Gas (ton cylinders)
- 1079 - Sulfur Dioxide - Poisonous Gas (ton cylinders)
- 1005 - Anhydrous Ammonia - Poisonous Gas (ton cylinders)
- 1790 - Hydroflouric Acid

Tactical Recommendations:

Due to the high probability of a Hazmat Type 2 or Type 3 incident, the Tactical Division finds the current hazardous material response plans to be inadequate. With the reliance upon outside agencies, the department cannot guarantee a proper and quick response to hazmat incidents.

The Tactical Division has concluded that to guarantee a proper response, Ohio Township Fire Department will need to be trained and equipped to a Hazmat Technician level capability under the direction of the Special Operations Division.

The Special Operations Division has created a phase in plan that would help break up the cost and required amount of training that the Hazmat Technician level response would require.

Phase I: Research and Development

Using the study completed for the L.E.P.C. and the identification of elevated and high risk structures, the Special Operations Division has identified multiple areas of interest that would require an aggressive offensive and/or defensive response system to limit the release of hazardous chemicals and to protect life and property.

An area map is currently being created to help identify other potential elevated and high risk areas. To further identify chemicals, we plan to use information from S.A.R.A. Title III reporting, mailers and on-site inspections.

Phase II: SOPs and SOGs

The Executive Branch of Ohio Township Fire Department will create and implement Standard Operating Procedures and Standard Operating Guidelines for response to hazmat incidents.

Phase III: Training

The minimum required training for all firefighters will be Indiana Hazmat 1st Responder Awareness level. All firefighters with a certification date before January 1st, 2015 will be highly encouraged to complete the Indiana Hazmat 1st Responder Operations.

Due to the high cost and difficult nature of the Indiana Hazmat 1st Responder Technician Level, firefighters wishing to obtain this level will have to go through an application process. It is our goal to maintain



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10 active responders at the Indiana Hazmat 1st Responder Technician Level.

To help with the cost of training Indiana Hazmat 1st Responder Technician Level, current Indiana Instructors will be given priority over non-instructors at the initial training phase. Once the instructors have completed the course, it shall be the duty of the Training Division to ensure classes are completed in-house.

Phase IV: Defensive Operations

The defensive operations will consist of purchasing equipment for decontamination and non-entry hazardous control operations.

Phase V: Offensive Operations

The offensive operations will consist of purchasing equipment for plugging, patching and identifying chemical agents.

Box Assignment:

- 3 Rescues (identification, containment)
- 3 Squads (offensive operations, defensive operations)
- 2 Trailers (hazmat equipment, MCI equipment)
- 2 Engines (decontamination)
- 3 Chiefs (incident command, operations, staging)

Recommended Personnel: 30 working crew + 3 chiefs.



Special Operations Risk Assessment

Ohio Township Fire Department responds to 5 subsets under the Special Operation title:

1. Water Rescue (surface, ice, swift, subsurface)
2. Rope Rescue (high angle, low angle)
3. Confined Space Rescue
4. Trench Rescue
5. Urban Search and Rescue

Water Rescue Risk Assessment

Findings:

Ohio Township has approximately 0.23 square miles of waterways, lakes, ponds and abandoned flooded strip mines, along with several floodplains, major drainage waterways, and the southernmost part of Ohio Township being directly adjacent to the Ohio River.

In the past 38 months, Ohio Township Fire Department has responded to nine hand-to-hand rescues of civilians trapped in vehicles surrounded by water, one of which was in critical condition, rescued one horse and recovered another from an ice-covered lake, and performed a body recovery in the Ohio River for the Kentucky State Police. Ohio Township Fire Department has also made several good intent calls to check on abandoned vehicles in flood waters.

Special Operations Division Recommendations:

After review of the findings for water rescues, the Special Operations Division has concluded the following recommendations for surface / ice water rescue and subsurface rescue.

Surface / Ice Water Rescue:

- Majority of Ohio Township Fire Department firefighters shall be trained to the level of surface water rescue swimmer
- Equip both Rescues and Squads with Coast Guard approved PFDs for each seat
- Equip both Rescues and Squads with water rescue rope with throw bags.
- Purchase watercraft capable of safe and efficient operations in the waterways of the township that are capable of supporting personal watercraft



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Subsurface Rescue:

- Have 20 township firefighters trained to the level of Dive Rescue Specialist 1
- All Chief Level Officers trained to a minimum of DRI surface support
- Develop staffing system to ensure 3 township divers are on duty at all times
- Equip divers with the safest and most efficient equipment (S.C.U.B.A. for rescue operations, Surface-supplied with helmet for recovery operations)
- Develop medical protocols with Warrick County Medical Director for diver safety and post victim rescue medical care

Box Assignment:

The following is the recommended response for a water rescue incident:

- 3 Squads (Squad 62, Squad 61, additional township squad)
- 2 Rescues (Rescue 64, Rescue 67)
- 1 township Engine (decontamination)
- 1 Chief (Battalion 60)

Recommended Personnel: 18 working crew + 1 chief.

Rope Rescue Risk Assessment

Findings:

After analysis of the contracted coverage area, the risk assessment indicates a high potential for rescues in which the victim may only be accessed by using a rope system. The analysis found a high volume of mid-rise construction and multiple areas with a high grade of terrain creating access problems if a vehicle and/or person were to leave the path.

Special Operations Division Recommendations:

After review of the findings for rope rescues, the Special Operations Division has concluded the following recommendations in terms of box assignment, equipment and cross training.

Box Assignment:

- 1 Truck
- 1 Squad
- 2 Rescues
- 1 Chief
- Special Call: Tower Ladder

Recommended Personnel: 24 working crew + 1 chief.



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Equipment:

All apparatus on the box assignment should have the minimum equipment to deploy two rescues with redundant safety systems.

Cross Training:

In order to ensure an adequate and proper response, the Special Operations division recommends a minimum of 15 Indiana Rope Rescue Technicians be trained and equipped across the township fire departments.

The Special Operations division also recommends a minimum of conducting four, full-scale training drills per year.

Confined Space Rescue Risk Assessment

Findings:

After analysis of the contracted coverage area, the risk assessment indicates a high potential for rescues in which the victim may become incapacitated and/or trapped inside a confined space and/or permit required confined space. The analysis found a high volume of construction along with an increased demand of maintenance that the potential for an incident to occur is multiplied exponentially.

Special Operations Division Recommendations:

After review of the findings for confined space rescues, the Special Operations Division has concluded the following recommendations in terms of box assignment, equipment and cross training.

Box Assignment:

- 1 Truck
- 2 Squads
- 2 Rescues
- 1 Chief

Recommended Personnel: 26 working crew + 1 chief.

Equipment:

All apparatus on the box assignment should have the minimum equipment to deploy two rescues with redundant safety systems. All apparatus should be issued a 4 Gas Monitor with Air Pumps and intrinsically safe equipment. Ohio Township Fire Department will also require a surface supplied air system, and confined space communication system.



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Cross Training:

In order to ensure an adequate and proper response, the Special Operations division recommends a minimum of 15 Indiana Confined Space Technicians be trained and equipped across the township fire departments.

The Special Operations division also recommends a minimum of conducting four, full-scale training drills per year.

Trench Rescue Risk Assessment

Findings:

After analysis of the contracted coverage area, the risk assessment indicates a high potential for rescues in which the victim may become incapacitated and/or trapped inside or under a collapse. The analysis found a high volume of construction along with an increased demand of maintenance that the potential for an incident to occur is multiplied exponentially.

Special Operations Division Recommendations:

After review of the findings for confined space rescues, the Special Operations Division has concluded the following recommendations in terms of box assignment, equipment and cross training.

Box Assignment:

- 1 Truck
- 3 Squads
- 2 Rescues
- 1 Trailer
- 1 Chief

Recommended Personnel: 28 working crew + 1 chief.

Cross Training:

In order to ensure an adequate and proper response, the Special Operations division recommends a minimum of 15 Indiana Trench Rescue Technicians be trained and equipped across the township fire departments.

The Special Operations division also recommends a minimum of conducting four, full-scale training drills per year.



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Equipment:

Trailer to store and transport all equipment listed:

<ul style="list-style-type: none"> 8 – 4'x8' shoring panels with 2"x12"x10' strong backs 8 -Shorform Panels 12 – Sheets of 3/4" plywood, for ground pads and supplemental sheeting in the trench 10 – 4"x4"x12' to be cut for shores 6 – 2"x12"x12' lumber 10 – 2"x4"x10' lumber 2 – 6"x6"x14' timber 25lbs. – 16-penny nails 2 – Steel pickets 4 – Carpenter nail pouches 6 – Claw or framing hammers 1 – 4-pound hand maul 1 – 8-pound sledge hammer 4 – Long-handle shovels 4 – Folding military shovels 4 – 5-gallon buckets (to remove the dirt from the trench) 4 – 25' tape measures 4 – Carpenter pencils 1 – Chalk line 1 – Square 	<ul style="list-style-type: none"> 8 – 20' sections of utility rope (1/2" minimum) 1 – Electric ventilation fan 1 – Electrical power source (generator) with power cords 1 – Chain Saw with all support equipment (gas, oil, tools, extra chain etc.) 1 – 4 gas meter 1 – Trash type dewatering pump 1 – Roof ladder 2 – 12' pike poles 2 – 8' or 10' pike poles 1 – Medical equipment 1 – Spine board appropriate straps 1 – Stokes basket and KED. 1 set – Air shore shoring equipment with SCBA bottle, regulator and any other needed accessories for different widths of the trench (24" to 36") 1 set – Hydraulic shoring with bucket pump and for different widths of trench (24 to 36") 1 set – Screw jacks complete with different length pipe
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Urban Search and Rescue Risk Assessment

Findings:

After analysis of the contracted coverage area, the risk assessment indicates a high potential for rescues in which the victim may become trapped in a structure due to a natural and/or man-made disaster. Indiana sees an average of 26.4 tornados per year.

In the past years, Ohio Township has been hit by several severe weather incidents, including the 2005 tornado which damaged more than 100 structures in the Township and killed more than 20 people in the surrounding area. Ohio Township also falls within the warning zone for the the New Madrid fault line, increasing the potential for a significant earthquake. Both types of events have a potential to trap and injure a large number of people.

Due to the potential for widespread damage, the reliance on mutual aid companies is unrealistic. In 2005, Newburgh Volunteer Fire Department and Ohio Township Fire Department conducted rescue operations with no outside assistance for approximately 6 hours. It should also be noted that, post 9/11, acts of domestic



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terrorism should be planned for in all communities.

Special Operations Division Recommendations:

After review of the findings for confined space rescues, the Special Operations Division has concluded the following recommendations in terms of box assignment, equipment and cross training.

Box Assignment:

- Township General Alarm (all township fire departments)
- 5 Chiefs

Recommended Personnel: 50+ working crew + 5 chiefs.

Equipment:

See FEMA recommendations.

Cross Training:

In order to ensure an adequate and proper response, the Special Operations division recommends a minimum of 15 USAR Technicians be trained and equipped across the township fire departments.