

# Weathersfield Township

## Comprehensive Plan

### Military Compatibility Element

The Military Compatibility Element of the Weathersfield Comprehensive Community Plan addresses military and community compatibility planning and long-term sustainability of military operations at Youngstown ARS. This Element is organized by the following subsections:

- Section 1 - Introduction
- Section 2 – Youngstown ARS Joint Land Use Study
- Section 3 – Installation Setting
- Section 4 – Planning Issues
- Section 5 – Implementation Measures
- Section 6 – Key Terms

#### 1. Introduction

Sustainment of the mission at Youngstown Air Reserve Station (ARS) is an overarching goal of Weathersfield Township. To reflect this commitment, Weathersfield Township participated in a Joint Land Use Study (JLUS), a compatibility planning process intended to identify existing and future compatibility issues between the base and the community. The Youngstown ARS Joint Land Use Study was completed in 2019 and was the result of a collaborative process between the Weathersfield Township, Youngstown ARS, Youngstown - other partner jurisdictions, businesses, industry, and other diverse stakeholder groups. The resulting Joint Land Use Study defined a shared strategic plan for area jurisdictions, Youngstown ARS, and Youngstown-Warren Regional Airport to work cooperatively and collaboratively to reduce and/or eliminate compatibility issues which can negatively impact the mission of the base, and compatibility issues created by the base which can negatively impact the surrounding communities.

Youngstown ARS is in Weathersfield Township in Trumbull County Ohio. It is nearly equidistant from the major cities of Cleveland, Ohio and Pittsburgh, Pennsylvania. Youngstown ARS is situated in a rural setting and is 11 miles north of the City of Youngstown and 10 miles east of the City of Warren and includes approximately 320 acres. The cantonment area consists of 230 acres while 90 acres surround the assault landing runway. The map on the following page shows Youngstown ARS and the surrounding vicinity.







- **Aerial spray** – DoD unique capability to control disease-carrying insects, pest insects, undesirable vegetation and to disperse oil spills in large bodies of water. Missions may be executed in combat areas, on DoD installations or in response to disasters / emergencies.
- **Aerial port** – Prepares and recovers the airdrop loads flown by the 910th AW aircrews for training.
- **Aeromedical training** – Support the AFRC aeromedical mission through annual, joint training exercises out of Youngstown ARS and Westover ARB.
- **Air assault** – Fly air assault landing training on the Youngstown ARS LZ. Training is necessary for combat delivery of supplies and services to ground-based personnel in theater.
- **Arms training** – Conduct arms training in support of the installation’s readiness mission.
- **Installation ops, aircraft maintenance and wing mobility** – Aircraft maintenance, personnel training, logistics, supply, and deployment processing in support of other mission areas.

### **Youngstown-Warren Regional Airport**

The Western Reserve Port Authority owns and operates the Youngstown-Warren Regional Airport. The airport is co-located with Youngstown ARS and shares its main runways with the military. Trumbull and Mahoning Counties oversee administration of the airport via an eight-member board. There are two runways at the facility, runway 14 / 32 that is a 9,003-foot long asphalt runway that is CAT I ILS capable for precision instrument landings. The other 5 / 23 runway is a 5,002-foot long asphalt runway that has less capabilities for aircraft operations. The airport has multiple taxiways and aprons to support aircraft operations. The airport also has a 24,000 square foot cargo facility designed to support a cargo hub operation. A third runway is used exclusively by Youngstown ARS for military operations. This assault runway is leased to the military and not available for airport operations.

### **Youngstown ARS Mission Footprint**

Mission activities conducted on and around Youngstown ARS can generate potential impacts on areas within the Weathersfield Township if incompatible uses are allowed to develop. Examples of potential mission impacts include noise and vibration from overhead flights and the risk of an aircraft accident. Conversely, the military mission is susceptible to hazards and other incompatibilities created by certain types of private development or activities, such as obstructions to airspace and frequency interference or location of noise sensitive uses in high noise zones. The overlapping spatial patterns of these “mission footprints” was essential for promoting compatible and informed decision making. The elements that make up the mission footprints that extends outside the Youngstown ARS boundaries are: Airfield Safety Zones, Noise Contours, Flight Tracks, Imaginary Surfaces, Part 77 Vertical Obstructions, and Bird / Wildlife Aircraft Strike Hazards (BASH). These essential elements play a key role in the installations viability for sustaining current and future mission operations.

### **Camp Garfield Joint Military Training Center**

The 910th AW combat mission includes the tactical airlift and airdrop in support of theatre operations. To maintain proficiency in this critical wartime capability, the AW conducts airdrop training at a drop zone on Camp Garfield. Camp Garfield is located approximately 25 miles southwest of Youngstown ARS and encompasses over 21,600 acres in Portage and Trumbull Counties. Aircraft are flown from Youngstown ARS to Camp Garfield to conduct the airdrop training and return to the base once the operations are complete.







- Policy 3-1**      **Memorandum of Agreement for Planning and Cross-Training.** Weathersfield Township should participate and support implementation of a Memorandum of Agreement (MOA) between Youngstown ARS and local Fire, EMS and law enforcement agencies for enhanced communications and coordination of emergency management planning and cross-training opportunities.
- Policy 3-2**      **Identify Need for and Consider Executing a Mutual Aid Agreement for Law Enforcement Resources.** Weathersfield Township should consider collaborating with Youngstown ARS security forces to execute a mutual aid agreement that will provide for the coordination of law enforcement resources and identify opportunities for resource sharing.
- Policy 3-3**      **Emergency Management Forums.** Weathersfield Township should participate in regular emergency management forums dedicated to sharing information between Youngstown ARS and local Fire, EMS, and law enforcement agencies.
- Goal #4**        **Development Review Coordination.** Weathersfield Township should adopt appropriate regulations to require and ensure development proposals for property in the vicinity of Youngstown ARS are reviewed for mission impact and consistency with all applicable compatibility factors, including lighting, BASH, and vertical obstructions.
- Policy 4-1**      **Memorandum of Agreement for Notification to Youngstown ARS.** Weathersfield Township, in conjunction with Trumbull County and Weathersfield and Weathersfield townships should work with Youngstown ARS to develop and support implementation of a formal Memorandum of Agreement (MOA) that delineates the roles and responsibilities for each community to collaborate on proposed development and land use planning matters. By resolution, each jurisdiction should appoint a military liaison.
- Policy 4-2**      **Adopt Development Notification Checklist.** Weathersfield Township should work with Youngstown ARS to develop, adopt, and implement a development notification checklist that will assist the township, developers, residents, and the military with identifying development types that could potentially be incompatible with the installation missions.
- Policy 4-3**      **Coordination with the Military Aviation and Installation Assurance Siting Clearinghouse.** Weathersfield Township should adopt appropriate regulations requiring the Clearinghouse review of renewable energy project proposals for military mission compatibility. The Weathersfield Township regulations shall require conformance with the Clearinghouse requirements and standards published in Title 32, Code of Federal Regulations, Part 211, and provide process guidance to facilitate the early submission of renewable energy project proposals to the Clearinghouse for comprehensive and efficient military mission compatibility review.
- Policy 4-4**      **Adopt Military Notification Procedures for Development Projects through Tax Abatement Process.** Weathersfield Township should adopt formal requirements for notification and review of development by Youngstown ARS per the checklist identified Strategy COM-5B of the Final JLUS document. As part of the tax abatement application process, Weathersfield Township should require transmittal of a copy of the application to Youngstown ARS at the time of application to ensure comprehensive, timely and











**Goal #10**      **Create a Military Compatibility Area Overlay District (MCAOD).** Weathersfield Township should amend the Weathersfield Township Zoning Ordinance to add a Military Compatibility Area Overlay District (MCAOD) containing Military Compatibility Areas that reflect the types and intensity of compatible uses and map them for the public on an online platform. The MCAOD is the collective geographic area of all of the MCAs combined. The MCAs established should be used by Weathersfield Township to identify areas where specific compatibility issues are more likely to occur and address ways to avoid compatibility issues. The MCA's applicable to Weathersfield Township include:

- **Vertical Obstructions MCA.** Includes the estimated Inner Horizontal Surfaces and Approach-Departure Clearance Surfaces for the runways at Youngstown-Warren Regional Airport and Youngstown ARS.
- **BASH MCA.** Includes areas within a five-mile radius around the airfield with the highest concentrations of wildlife or wildlife-attractant uses.

Where appropriate, Weathersfield Township should incorporate the MCAOD and MCA boundaries on the zoning map and future land use maps and include the zone regulations in the Zoning Ordinance and on their official maps (hardcopy, electronic and web based as applicable) for easy access and understanding by the public.

## G. Land Use

The basis of land use planning and regulation relates to the government's role in protecting the public's health, safety, and welfare. Local jurisdictions' comprehensive community plans and zoning ordinances can be the most effective tools for preventing or resolving land use compatibility issues. These tools ensure the separation of land uses that differ significantly in character. Land use separation also applies to properties where the use of one property may adversely impact the use of another. For instance, industrial uses are often separated from residential uses to avoid impacts from noise, odors, and lighting.

Compatibility is based on land use and not the zoning district since each zoning district allows multiple land uses. An assessment of land uses in the zoning districts within Weathersfield Township and the Youngstown ARS safety zones is necessary to establish land use compatibility.

Land development and supporting projects that occur in areas where Youngstown ARS conducts operations have the potential to impact the ability of the military to be successful. The combination of the military footprints makes up the military compatibility areas for Youngstown ARS. Any development within the MCA that has the potential to affect Youngstown ARS operations may impact the military mission. Types of development that may impact the Youngstown ARS MCA include but are not limited to:

- Renewable energy projects such as solar arrays or wind turbines
- Tall structures and towers such as buildings, communication towers, water towers, etc.
- Development of water resources that may attract birds

In addition, changes in land use plans or zoning ordinances that affect how land could be used in the future within the MCA has the potential to impact Youngstown ARS operations.

- Policy 11-1**      **Establish Regional Response Capabilities.** Weathersfield Township and Youngstown ARS and should collaborate to develop response plans that enable a regional response capability for emergencies resulting from shale gas operations. Response procedures should focus on health and safety as priority one, along with provisions to protect property, equipment and minimize impacts to ongoing military operations.
- Policy 11-2**      **Establish a Road Use and Maintenance Agreement.** Weathersfield Township should cooperatively develop a Road Use and Maintenance Agreement to minimize impacts from shale gas operations truck traffic on local roadways. The agreement should also ensure the shale gas operations are held responsible for any road maintenance needs resulting from their activities.
- Policy 11-3**      **Establish an Interlocal Agreement.** Youngstown ARS and Weathersfield Township should develop an interlocal agreement for communications and coordination of emergency management activities in the event of an emergency resulting from shale gas operations.
- Policy 11-4**      **Implement Best Lighting Practices in Zoning Ordinances.** Weathersfield Township should identify and implement best practices for lighting through zoning regulations based on the findings and conclusions gathered in Strategy LU-4A to protect the favorable lighting conditions currently experienced around Youngstown ARS and the Youngstown-Warren Regional Airport.

**H.      Bird / Wildlife Aircraft Strike Hazard (BASH)**

The proposed Bird / Wildlife Aircraft Strike Hazard (BASH) MCA extends 5 miles in all directions from the air operations areas at the Youngstown-Warren Regional Airport. This MCA is meant to include areas near the airfield with the highest concentrations of birds, wildlife, or attractants. Bird strikes with aircraft can pose serious safety concerns, including the potential for loss of life or aircraft. Even minor bird strikes can cause costly repairs to aircraft and interfere with training missions. The five-mile distance associated with the BASH MCA is a Federal Aviation Administration (FAA) recommended standard for managing bird attractants around airports. The plan documents that there is a bird strike hazard at the Youngstown-Warren Regional Airport and in its vicinity due to resident and migratory bird species. Daily and seasonal bird movements create various hazardous conditions for military flying operations.

**Bird / Wildlife Aircraft Strike Hazard (BASH) Relevancy Area**

Travel paths of birds and animals can present a significant hazard to military flight operations. While fatal accidents resulting from bird or wildlife strikes have been limited, impacts can be a safety concern. Youngstown ARS prepared the most recent 910th AW Bird Aircraft Strike Hazard Reduction Plan 91-212 (910th AW BASH Plan) in 2017.

The plan documents that there is a bird strike hazard at the Youngstown-Warren Regional Airport and in its vicinity due to resident and migratory bird species. Daily and seasonal bird movements create various hazardous conditions for military flying operations.

- Goal #12**      **Bird/Wildlife Aircraft Strike Hazard (BASH).** Weathersfield Township should reduce bird aircraft strikes through the development and implementation of strategies and action steps to limit/reduce bird attractants located on and around Youngstown ARS.

**Policy 12-1 Establish Bird/Wildlife Aircraft Strike Hazard (BASH) MCA Overlay District.**

Weathersfield Township should adopt a BASH MCA that would preclude future incompatible land uses, as recommended by FAA Advisory Circular 150 / 5200-33B, within five statute miles of the Youngstown-Warren Regional Airport and Youngstown ARS.

**I. Vertical Obstruction**

Vertical obstructions are created by buildings, trees, structures, or other features that may encroach into the navigable airspace or line of sight radar signal transmission pathways used by the military. These obstructions can be a safety hazard to both the public and military personnel and potentially impact military readiness.

Vertical obstructions can compromise the value of low-level flight training by limiting the areas where such training can occur. These obstructions can include a range of items from man-made, such as telephone poles, utility transmission towers, and radio antennas, to natural, such as tall trees and land features. Vertical obstructions can also interfere with radar transmissions, compromising the integrity of data transmission between the transmitter and receiver. Though most critical near the transmitter, the geographic area impacting the transmissions, or radar viewshed, can be broad depending on the distance between the transmitter and receivers.

The purpose of the Vertical Obstruction MCA is to regulate the height of all structures within the area that is defined by FAA guidance and Air Force instruction using criteria known as “imaginary surfaces.” The imaginary surfaces are 3-dimensional geospatial areas comprising approach and departure airspace corridors and surrounding navigable airspace. Vertical obstruction heights are a major concern for flight operations and training due to the potential for a structure to extend into navigable airspace, which could impede safe flight operations and put both pilots and citizens on the ground at risk of an aircraft mishap. County and township zoning codes do not regulate the height of structures within airfield imaginary surfaces for Youngstown-Warren Regional Airport which could lead to potential vertical obstructions to pilot navigation.

**Part 77 Vertical Obstruction Compliance**

The 500-foot rule, promulgated by the FAA, states that every citizen of the U.S. has “a public right of freedom of transit in air commerce through the navigable air space of the United States.” The rule was formally announced in the 1963 Court of Claims ruling in *Aaron v. United States* and declares that flights 500 feet or more Above Ground Level (AGL) do not represent a compensable taking because they enjoy a free right-of-passage without liability to the owners below.

Another important outcome of the Act is Federal Aviation Regulation Title 14, Part 77, which provides the basis for the evaluation of vertical obstruction compatibility. This regulation provides information to assess the potential for a vertical obstruction based on the elevation of the airfield, the height and resulting elevation of the proposed structure or facility, and the location of the structure or facility relative to the airfield in question. This regulation determines compatibility based on the height of proposed structures or natural features, relative to their distance from the ends of a runway. Using a distance formula for this regulation, local jurisdictions can easily assess the height restrictions near airfields.

- Policy 13-1**     **Establish Vertical Obstruction MCA Overlay District.** Weathersfield Township should consider creating a VO MCA Overlay District in planning documents to regulate the height of structures within FAA Imaginary Surfaces surrounding the Youngstown ARS and Youngstown-Warren Regional Airport.
- Policy 13-2**     **Ensure Federal Aviation Regulation (FAR) Part 77 Compliance.** Weathersfield Township should require a determination Finding of No Significant Impact from the FAA subject to the requirements of Part 77 to be submitted with a development application for local government approval to demonstrate that a proposed structure will not create a vertical obstruction within the navigable airspace.

## **5. Implementation Measures**

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This section identifies the recommended courses of action (strategies) for responding to the compatibility issues identified in the proceeding section. The strategies were developed through a collaborative effort among representatives of local jurisdictions, Youngstown ARS, state and federal agencies, local organizations, the public, and other stakeholders that own or manage land and resources in the region.

The JLUS strategies incorporate a variety of actions that promote compatible land use and resource planning. Upon implementation, existing and potential compatibility issues arising from civilian / military interactions can be avoided, significantly mitigated, or removed. These strategies are the heart of the JLUS Study and are the culmination of the entire planning process.

A critical variable for the implementation of strategies is the establishment of the JLUS Implementation Coordination Committee to oversee the execution of the JLUS. It is through this committee that local jurisdictions, the installation, and other stakeholders can enhance their collaboration and adjust actions over time to ensure resolution of the key issues is achieved well into the future through the implementation of realistic and applicable strategies.

The key to successful implementation is balancing the needs of all involved stakeholders. To produce a balanced plan, several guidelines were used as the basis for strategy development. These guidelines are listed below.

Recommended strategies must not result in a taking of property value, as defined by state law.

In some cases, the recommended strategies can only be implemented with new enabling legislation.

To minimize regulation, many of the strategies are only recommended for within a specific geographic area where a compatibility issue has been identified (e.g., within noise contours) instead of for the whole JLUS Study Area.

To meet the needs of all parties, it was determined that strategies without 100% buy-in from all stakeholders may be expanded and tailored to individual circumstances. These strategies ultimately constitute multiple strategies that address one issue in different ways.

Since state and federal regulations are subject to change, the party responsible for implementation should ensure there are no conflicts between the strategy and existing state or federal laws before executing any of the suggested strategies.

In addition to the primary guidelines listed above, consideration was given to the 2018 National Defense Strategy (NDS) when developing recommendations. The NDS is used to establish objectives for military planning regarding force structure, force modernization, business processes, supporting infrastructure, and required resources.

Implementation Measures, identifies the implementation measures Weathersfield should take to implement the goals and policies of the Military Compatibility Element. The implementation program lists each specific implementation measure, a reference to the policy it is implementing, who is responsible to implement the program, and the timeframe for implementation.

### Implementation Measures Table

#	Implementation Measure	Goal/Policy	Partnerships	Timeframe			
				2023 - 2024	2025 - 2026	2026 - 2028	On-going
<b>Capital Improvement Projects</b>							
1	Incorporate Compatibility Planning in Master Plans	Policy 1-1	All JLUS partners and Youngtown ARS				■
2	Coordinate Infrastructure Expansion Plans	Policy 1-2	All JLUS partners and Youngtown ARS				■
<b>Communication and Coordination</b>							
3	Emergency Service Radio Communications	Goal #2	All JLUS partners and Youngtown ARS		■		
4	Upgrade to Digital Radio Compliant with MARCS Network	Policy 2-1	All JLUS partners and Youngtown ARS		■		
5	Intergovernmental Agreement for Single-Use Frequency	Policy 2-2	All JLUS partners and Youngtown ARS	■			
6	Emergency Management Coordination	Goal #3	All JLUS partners and Youngtown ARS				■
7	Memorandum of Agreement for Planning and Cross-Training	Policy 3-1	All JLUS partners and Youngtown ARS	■			
8	Identify Need for and Consider Executing a Mutual Aid Agreement for Law Enforcement Resources	Policy 3-2	All JLUS partners and Youngtown ARS	■			
9	Emergency Management Forums	Policy 3-3	All JLUS partners and Youngtown ARS	■			
10	Development Review Coordination	Goal #4	All JLUS partners and Youngtown ARS				■

#	Implementation Measure	Goal/Policy	Partnerships	Timeframe			
				2023 - 2024	2025 - 2026	2026 - 2028	On-going
<b>Communication and Coordination continued</b>							
11	Memorandum of Agreement for Notification to Youngstown ARS	Policy 4-1	All JLUS partners and Youngstown ARS, Ohio Department of Transportation, Local Utility Providers	■			
12	Adopt Development Notification Checklist	Policy 4-2	All JLUS partners and Youngstown ARS, Youngstown Warren Regional Chamber, NEO Development and Finance Authority	■			
13	Coordination with the Military Aviation and Installation Assurance Siting Clearinghouse	Policy 4-3	All JLUS partners and Youngstown ARS	■			
14	Adopt Military Notification Procedures for Development Projects through Tax Abatement Process	Policy 4-4	All JLUS partners and Youngstown ARS		■		
15	Planning Issue Coordination	Goal #5	All JLUS partners and Youngstown ARS				■
16	Create a JLUS Implementation Coordination Committee	Policy 5-1	All JLUS partners and Youngstown ARS	■			
17	Provide Mutual Briefings between Youngstown ARS and Township Trustees	Policy 5-2	All JLUS partners and Youngstown ARS, Youngstown Warren Regional Chamber, NEO Development and Finance Authority				■
18	Foster Enhanced Public Awareness Through Accurate Mapping	Policy 5-3	All JLUS partners and Youngstown ARS	■			
19	Outreach and Awareness	Goal #6	All JLUS partners and Youngstown ARS	■			
20	Need for Public Education Regarding the Youngstown Mission	Policy 6-1	All JLUS partners and Youngstown ARS		■		
21	Create and distribute educational / informational brochures	Policy 6-2	All JLUS partners and Youngstown ARS, Youngstown Warren Regional Chamber, NEO Development and Finance Authority, YARBCC		■		
22	Promote Social Media Outlets for General Public	Policy 6-3	All JLUS partners and Youngstown ARS, YARBCC				■
23	Installation and Community Events Partnership	Policy 6-4	All JLUS partners and Youngstown ARS				■

#	Implementation Measure	Goal/Policy	Partnerships	Timeframe			
				2023 - 2024	2025 - 2026	2026 - 2028	On-going
<b>Communication and Coordination continued</b>							
	Seek Funding to Support Public Outreach	Policy 6-5	All JLUS partners and Youngtown ARS				■
25	Educate the Real Estate Industry and Development Community	Policy 6-6	All JLUS partners and Youngtown ARS Youngtown Warren Regional Chamber, NEO Development and Finance Authority		■		
26	Partnership Opportunities	Goal #7	All JLUS partners and Youngtown ARS				■
27	Continue to Leverage Opportunities through the AF Community Partnership Program	Policy 7-1	All JLUS partners and Youngtown ARS, AF Community Partnerships Program Management Office				■
<b>Amendments to Regulations/ Agreements/Future Studies</b>							
28	Lighting Impacts	Goal #8	All JLUS partners and Youngtown ARS				■
29	Future Land Use Impacts on Youngstown ARS Night Flying Mission	Policy 8-1	All JLUS partners and Youngtown ARS			■	
30	Assess Future Ambient Lighting Impacts on Night Flying Operations	Policy 8-2	All JLUS partners and Youngtown ARS			■	
31	Compatibility Regulations	Goal #9	All JLUS partners and Youngtown ARS		■		
32	Potential Light and Glare Impacts on Pilot Visibility from Solar Projects	Policy 9-1	All JLUS partners and Youngtown ARS	■			
33	Implement the Military Aviation and Installation Assurance Siting Clearinghouse Coordination Procedures	Policy 9-2	All JLUS partners and Youngtown ARS	■			
34	Require Use of Solar Project Siting Tools	Policy 9-3	All JLUS partners and Youngtown ARS	■			
35	Create a Military Compatibility Area Overlay District (MCAOD)	Goal #10	All JLUS partners and Youngtown ARS		■		
40	Establish Regional Response Capabilities	Policy 11-1	All JLUS partners and Youngtown ARS		■		

#	Implementation Measure	Goal/Policy	Partnerships	Timeframe			
				2023 - 2024	2025 - 2026	2026 - 2028	On-going
<b>Amendments to Regulations/ Agreements/Future Studies continued</b>							
41	Establish a Road Use and Maintenance Agreement	Policy 11-2	All JLUS partners and Youngtown ARS, Eastgate Regional COG	■			
42	Establish an Interlocal Agreement	Policy 11-3	All JLUS partners and Youngtown ARS	■			
43	Implement Best Lighting Practices in Zoning Codes	Policy 11-4	All JLUS partners and Youngtown ARS			■	
46	Bird/Wildlife Aircraft Strike Hazard (BASH)	Goal #12	All JLUS partners and Youngtown ARS				■
47	Establish Bird/Wildlife Aircraft Strike Hazard (BASH) MCA Overlay District	Policy 12-1	All JLUS partners and Youngtown ARS		■		
48	Establish Vertical Obstruction MCA Overlay District	Policy 13-1	All JLUS partners and Youngtown ARS		■		
49	Ensure Federal Aviation Regulation (FAR) Part 77 Compliance	Policy 13-2	All JLUS partners and Youngtown ARS	■			

## 6. Key Terms

**Area Operations Area (AOA).** The Area Operations Area (AOA) is an area that encompasses the entire airport's approach or departure airspace including the circling space.

**Avigation Easement.** An easement that grants one or more of the following rights: the right of flight; the right to cause noise, dust, etc. related to aircraft flight; the right to restrict or prohibit certain lights, electromagnetic signals, and bird-attracting land uses; the right to unobstructed airspace over the property above a specified height; and the right of ingress/egress upon the land to exercise those rights.

**Bird / Wildlife Aircraft Strike Hazard (BASH).** Bird / Wildlife Aircraft Strike Hazard (BASH) refers to the likely occurrence for a collision between an airborne animal (usually a bird) and a human-made vehicle, particularly aircraft.

**Bird/Wildlife Aircraft Strike Hazard (BASH) Relevancy Area.** An area that has been determined to have a high-risk profile associated with aircraft collisions with birds and wildlife due to aircraft flying at lower altitudes and slower speeds.

**Joint Land Use Study (JLUS).** A Joint Land Use Study is a planning process accomplished through the collaborative efforts of stakeholders in a defined area to identify compatible land uses and growth/development guidelines for application to areas adjacent to military installations. Joint Land Use Studies are primarily funded by the Department of Defense (DoD), Office of Economic Adjustment (OEA).

**Military Compatibility Area (MCA).** A formal designation of a geographical area where military operations may impact local communities, and conversely, where local activities and uses may affect the military's ability to conduct its mission. An MCA delineates a geographic area where strategies are recommended to support compatibility planning between local governments and the military installation.

**Military Notification Area.** The Military Notification Area is a geographic area where jurisdictions notify the military of a proposed action, prior to approval of that action, due to its potential to impact operations at Youngstown ARS or the airspace surrounding it.

**Part 77 Vertical Obstruction Compliance.** FAA Regulation Title 14 Part 77, commonly referred to as Part 77, provides the basis for evaluation of vertical obstruction compatibility. This regulation provides information to evaluate the potential for vertical obstruction based on an evaluation of the airfield, the height and resulting elevation of the new building or structure, and the location of the building or structure relative to the airfield in question.

**Unmanned Aerial Systems.** Unmanned aerial systems (UAS) are aircraft that are capable of operating without an internal pilot; are tethered by a radio control link; and can be preprogrammed for both flight and payload operations.

**Vertical Obstructions.** Buildings, structures, trees, or other features that may encroach into the navigable airspace or in the line-of-sight radar signal transmission pathways used by the military.