

Preliminary Damage Assessment Classification Training

Purpose:

The following slides are examples of three different types of images: Nadir, Oblique, and ground. The purpose of this PowerPoint is to help people classify damage to housing structures according to FEMA's Individual Assistance (IA) specifications.



FEMA

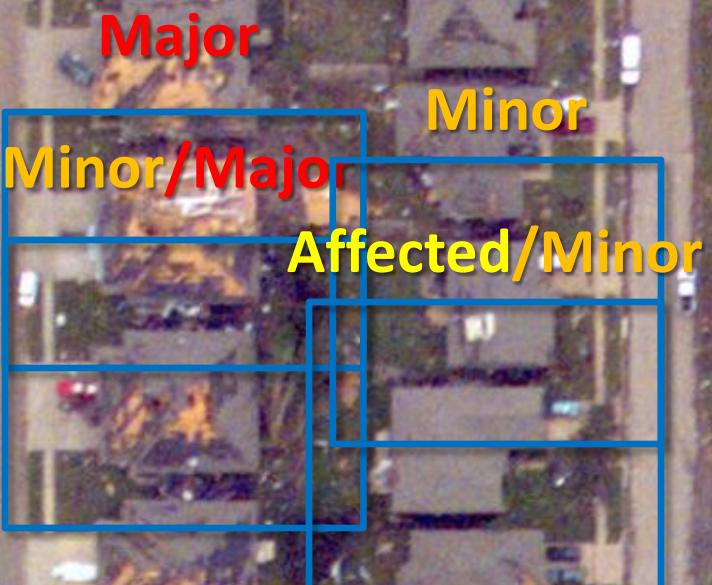
NADIR Image

What is the
damage level?



Tip...

When using NADIR imagery it is often hard to determine exactly the level of damage. Oblique or ground imagery will often provide clarity on the level of damage.



This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.

NADIR Image

Minor Major Destroyed Minor



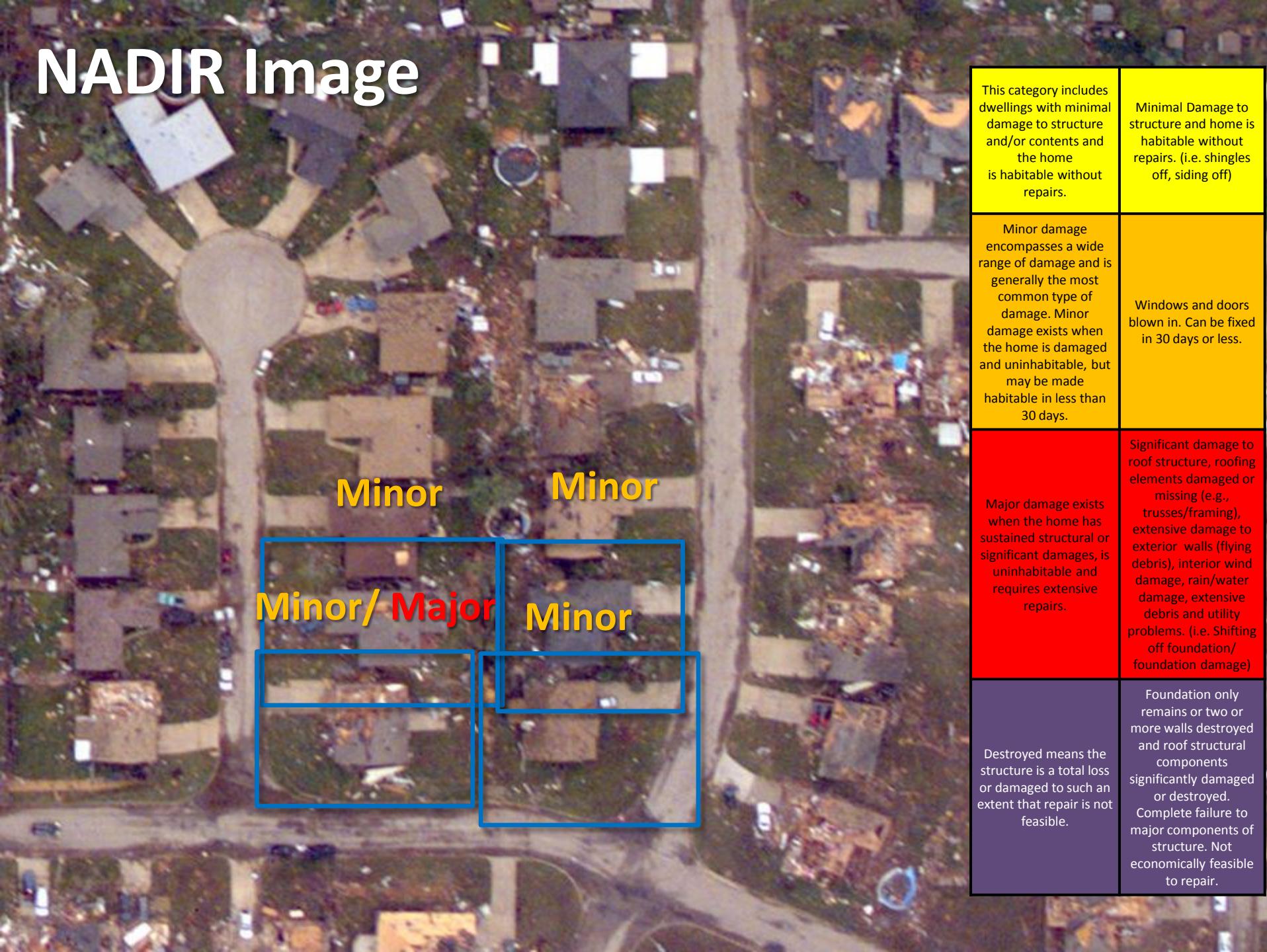
This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.

NADIR Image



This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.

NADIR Image



NADIR Image

This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)	
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.	
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)	
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.	

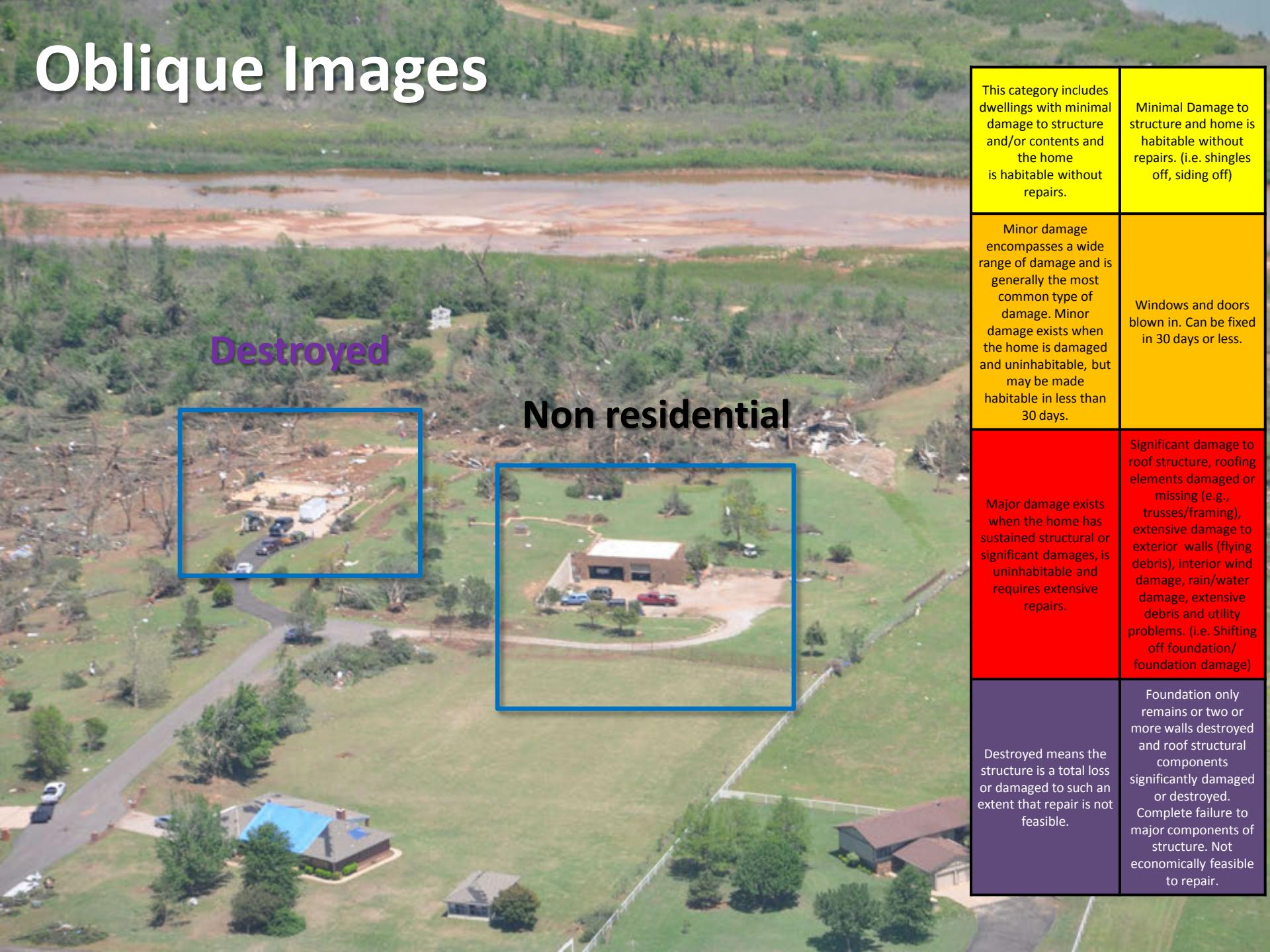
Affected / Minor



Affected / Minor Major / Destroyed

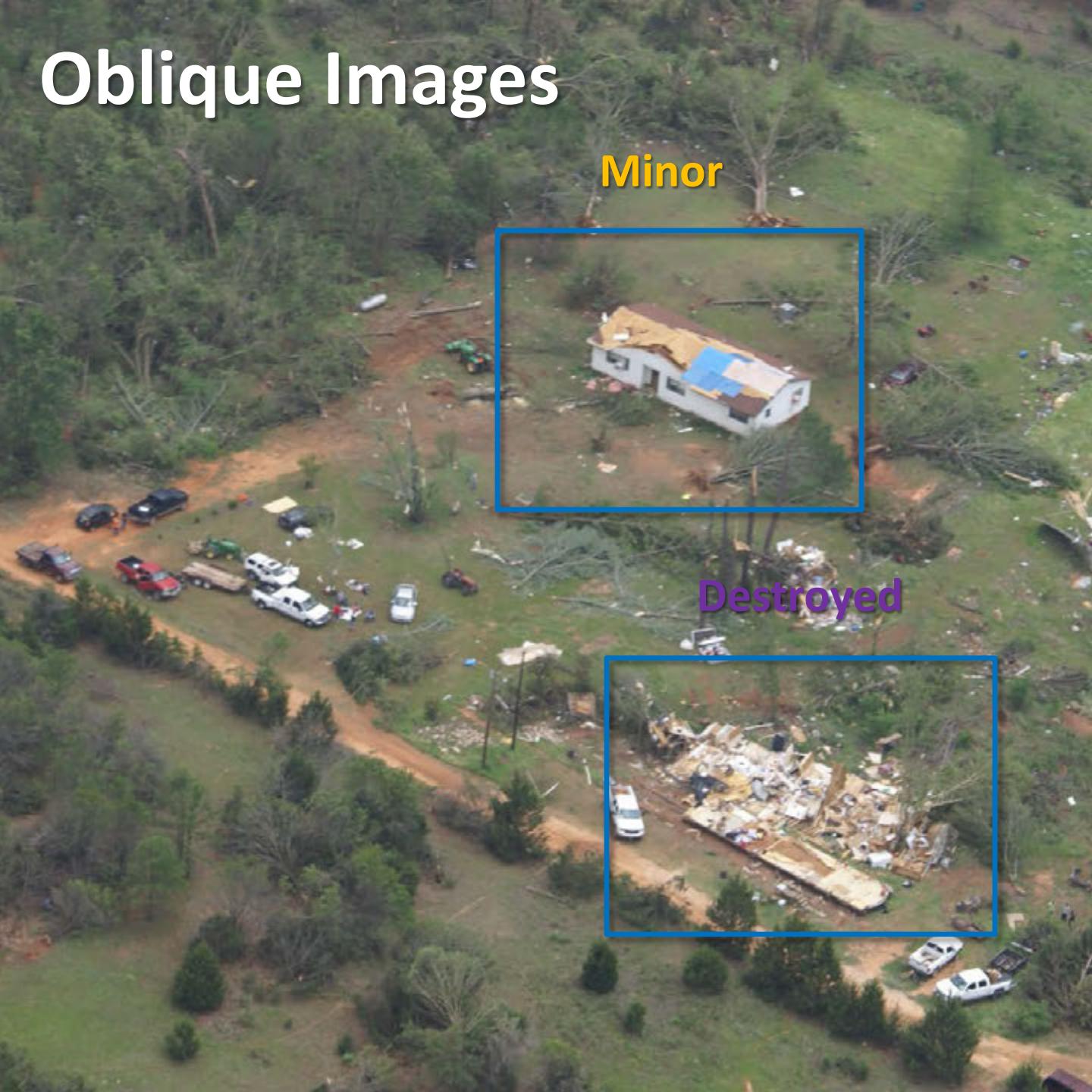


Oblique Images



This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.

Oblique Images



This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.

Oblique Images

Outbuildings



Affected



Oblique Images



Major
Major

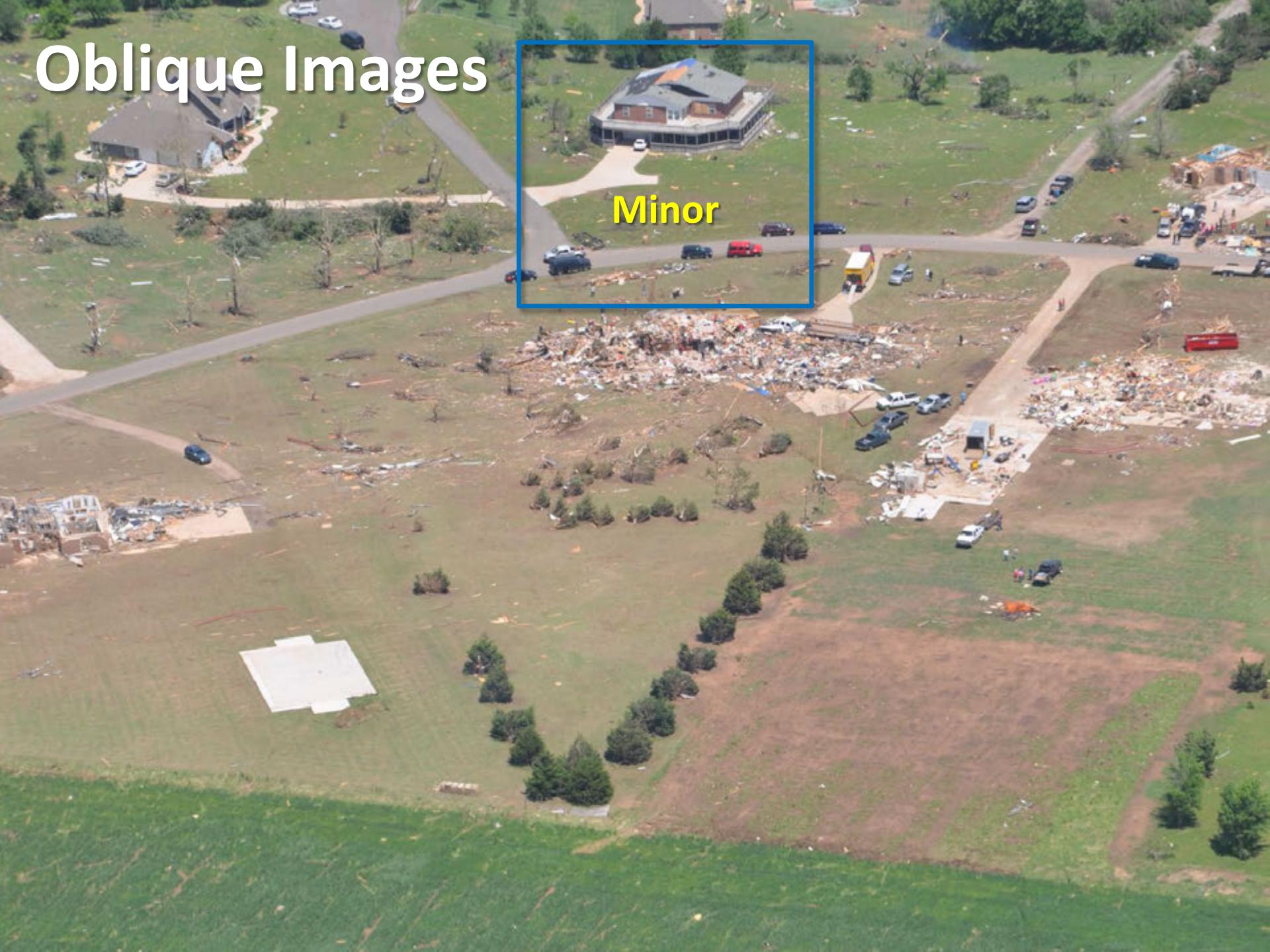


Minor

Minor



Oblique Images



Oblique Images

Minor

Major



This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure of major components of structure. Not economically feasible to repair.

Oblique Images

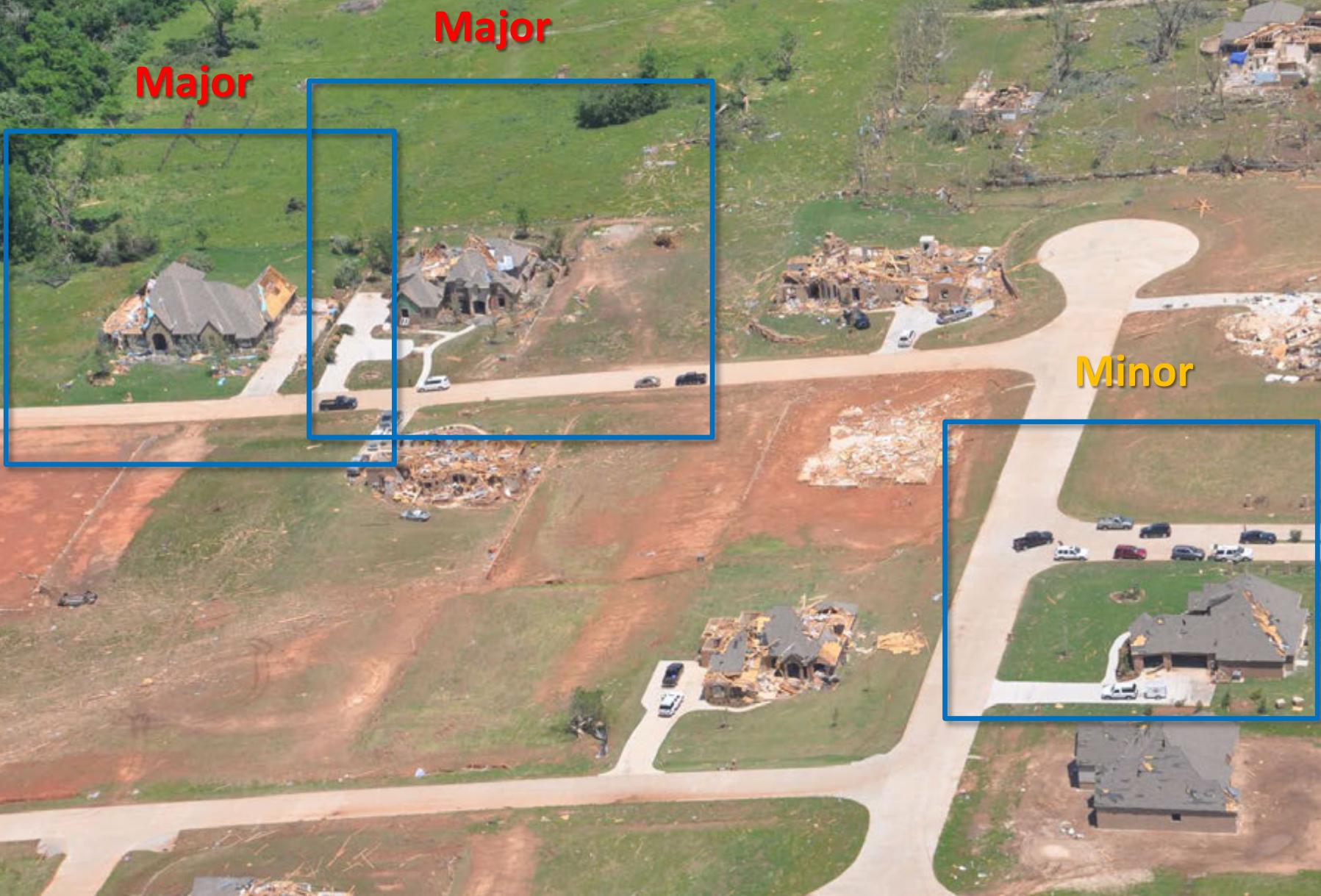
Outbuilding

Affected

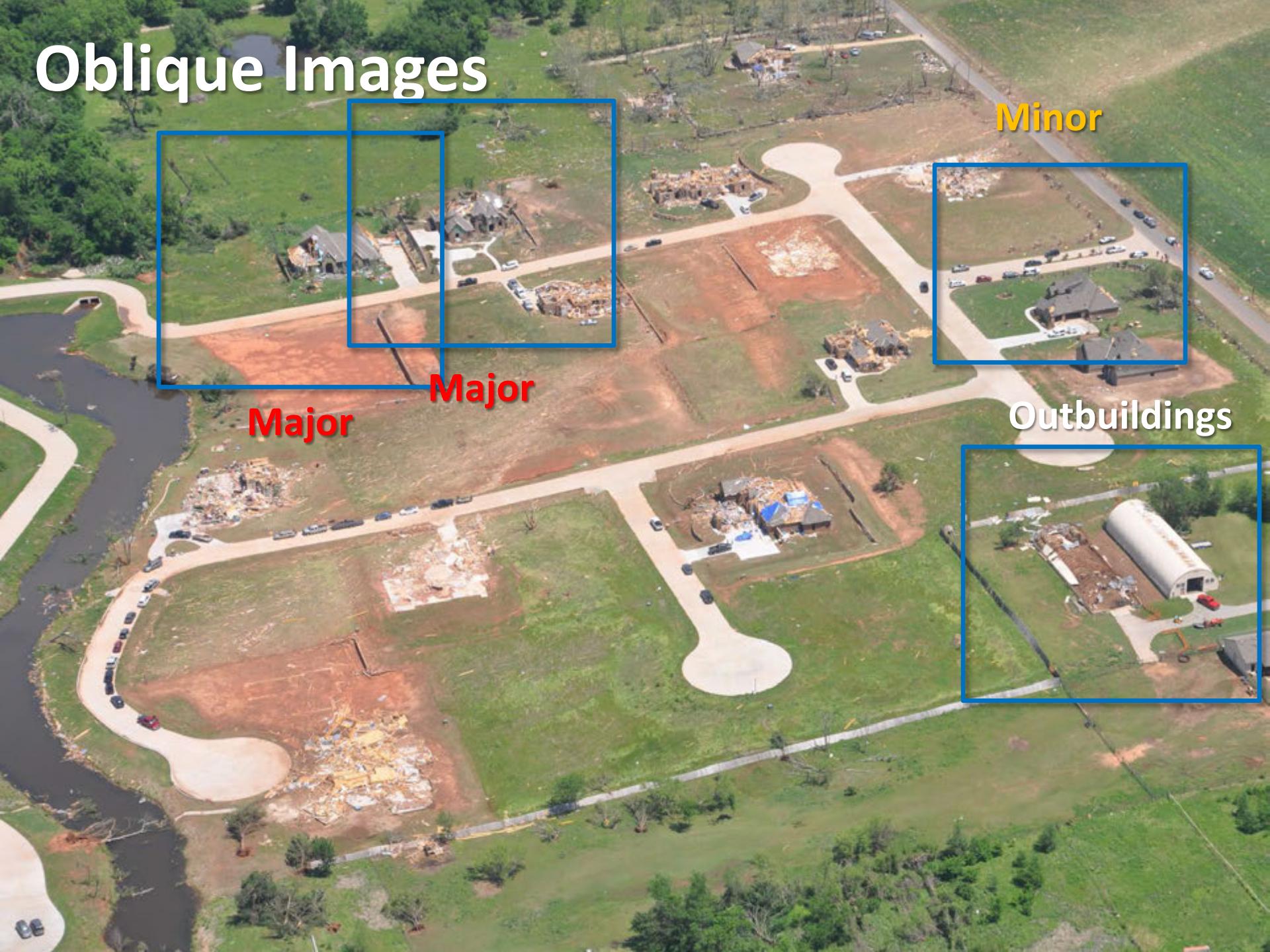
Minor



Oblique Images



Oblique Images

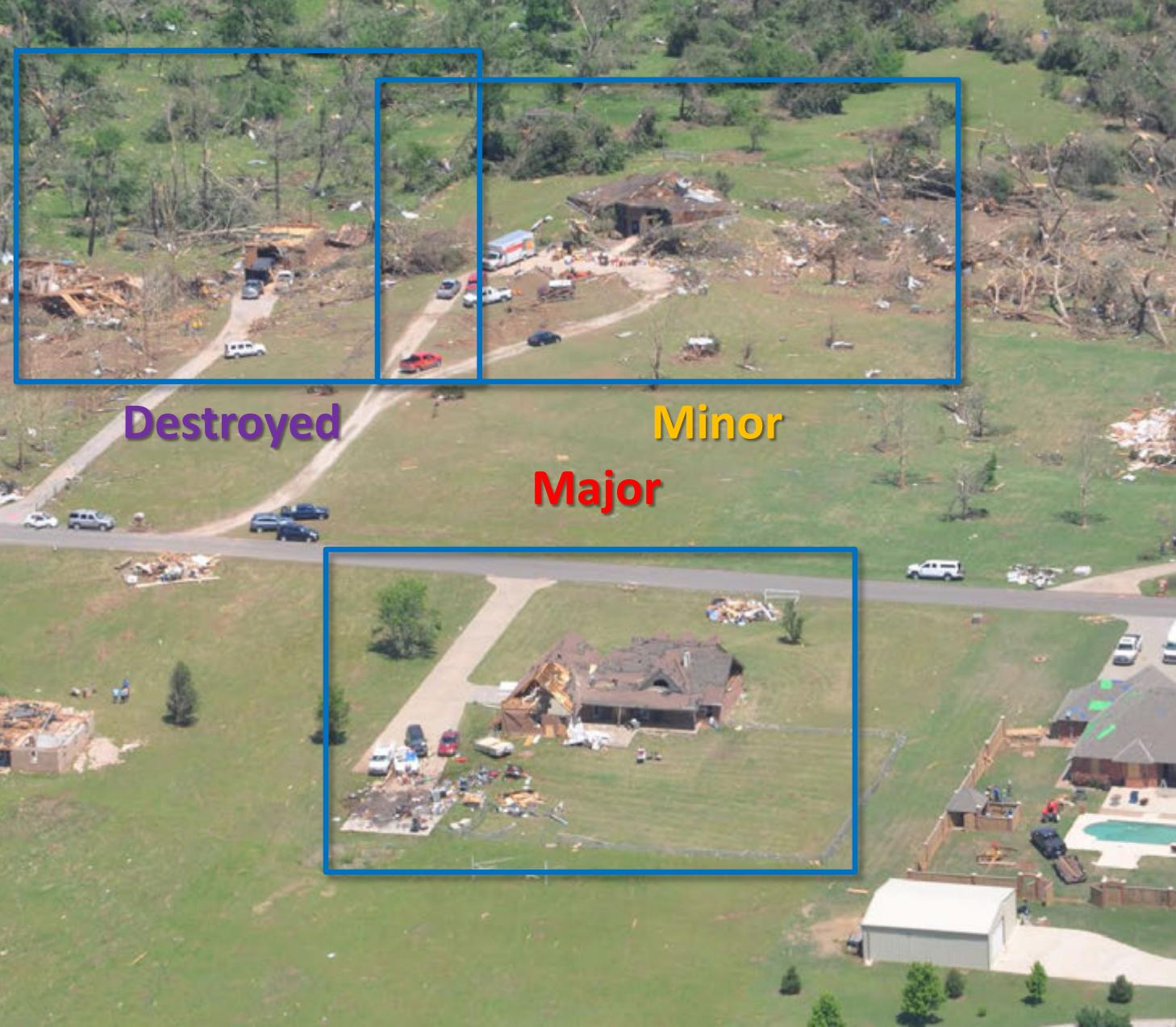




	This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
	Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
	Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
	Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.

Oblique Images

This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.



Oblique Images

This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.



Oblique Images

This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.

Minor

Ground Images



Ground Images



<p>This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.</p>	<p>Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)</p>
<p>Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.</p>	<p>Windows and doors blown in. Can be fixed in 30 days or less.</p>
<p>Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.</p>	<p>Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)</p>
<p>Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.</p>	<p>Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.</p>

Ground Images

This category includes dwellings with minimal damage to structure and/or contents and the home is habitable without repairs.	Minimal Damage to structure and home is habitable without repairs. (i.e. shingles off, siding off)
Minor damage encompasses a wide range of damage and is generally the most common type of damage. Minor damage exists when the home is damaged and uninhabitable, but may be made habitable in less than 30 days.	Windows and doors blown in. Can be fixed in 30 days or less.
Major damage exists when the home has sustained structural or significant damages, is uninhabitable and requires extensive repairs.	Significant damage to roof structure, roofing elements damaged or missing (e.g., trusses/framing), extensive damage to exterior walls (flying debris), interior wind damage, rain/water damage, extensive debris and utility problems. (i.e. Shifting off foundation/foundation damage)
Destroyed means the structure is a total loss or damaged to such an extent that repair is not feasible.	Foundation only remains or two or more walls destroyed and roof structural components significantly damaged or destroyed. Complete failure to major components of structure. Not economically feasible to repair.



Ground Images



Ground Images

Destroyed



Ground Images



Major

Ground Images



Destroyed

Ground Images



Ground Images



Major

14404

Ground Images



Ground Images



Ground Images

Destroyed



Destroyed

