



DAMAGE ASSESSMENT



DAMAGE ASSESSMENT



DAMAGE ASSESSMENT

SEQUENCE OF EVENTS

PRE-DECLARATION

- The Disaster Event Occurs
- Responsible Jurisdictions Respond to the Event
- Counties and PEMA Area's Discuss Events Impact
- Municipalities and other local entities report IA damages to their Counties
- Counties report to PEMA Area Offices
- PEMA Area Offices report to PEMA HQ
- PEMA evaluates the PA damage reports based on:
 - Dollar VALUE to respond, repair or replace in kind
 - IMPACT
- **PEMA asks FEMA for a Joint Preliminary Damage Assessment (JPDA)**
- You Hit the Road – You see, you document and report back
- PDA Results are Analyzed
- Then maybe the Governor asks the President for a Declaration of Major Disaster

DAMAGE ASSESSMENT

Purpose

- Accurately determine the overall impact of the event
- Determine if enough damages exists to support a request for a Presidential declaration or a Small Business Administration (SBA) declaration.
- Is it a “Oh Wow ” event that warrants immediate assistance from the federal government

WINDSHIELD SURVEY INITIAL DAMAGE REPORT (IDR)

It All Begins With You

 **As soon as it is safe to do so, assess damages sustained to RESIDENTIAL , INFRASTRUCTURE and BUSINESSES.**

 **What Happened: Note location, type of damage, and an estimate of how much it will cost to repair or replace to bring back to original capacity and function.**

DOCUMENT AS YOU ASSESS DAMAGES

 **Start a disaster folder immediately.**

 **Take photos**

-  **Damaged facilities**
-  **Debris**
-  **Work being performed**
-  **Rescue operations**
-  **Evacuations**
-  **Emergency Operation Center operations**
-  **Flooded homes**
-  **Match photos with damage estimates**
-  **Mark a map showing the location of damage sites and code to photos**

DAMAGE ASSESSMENT

TYPES OF ASSESSMENTS

- Individual Assistance (IA) – Primary residences for owners and renters, and businesses properties
- Public Assistance(PA) – Debris removal, emergency protective measures, public equipment, property and infrastructure.
- SBA Only

DAMAGE ASSESSMENT

INITIAL ASSESSMENTS

- PEMA Area Offices and Counties determine an initial assessment is needed
- PEMA Deputy for Operations and Areas conduct a Initial Damage Assessment operations briefing with affected Areas, Counties and State Agencies
- PEMA Deputy for Operations establishes final deadlines for submission of County impact statement
- Counties contact local municipalities and other eligible entities to begin assessing.

DAMAGE ASSESSMENT

INITIAL ASSESSMENTS

Process

- Local Entities report their damages back to their County on the local IA damage assessment forms and PA damage assessment forms(DAP-19)
- County collects and combines like damages onto their County IA damage assessment forms and PA damage assessment form(DAP-17)
- Counties send their summary assessment to their PEMA Area Office by **TBD** Daily and continue doing so until all damages are reported. Final reports should reported as such

DAMAGE ASSESSMENT

INITIAL ASSESSMENTS

Process Cont..

- PEMA Area Office notifies PEMA HQ:
 - On the need for a SBA only assessment/survey or workshop
 - On the need for a joint IA Preliminary Damage Assessment
 - On the need for a joint PA Preliminary Damage Assessment
- PEMA HQ reviews the Area's recommendation for a SBA survey/workshop or Joint Preliminary Damage Assessment.
- PEMA HQ requests FEMA and/or SBA participation in a Joint Preliminary Damage Assessment. Request details Counties to be assessed and number of JPDA teams required
 - How long to tour your County (1day, 2 day's?)

Individual Assistance (IA) Program

Through the program, Federal Emergency Management Agency (FEMA) and the Commonwealth provide supplemental federal disaster grant assistance for to individuals and families who have sustained losses due to disasters.

Grants to help pay for temporary housing, emergency home repairs, uninsured and underinsured personal property losses, and medical, dental and funeral expenses caused by the disaster, along with other serious disaster-related expenses.

The SBA offers low-interest disaster loans to businesses of all sizes, private non-profit organizations, homeowners and renters. SBA disaster loans are the primary source of federal long-term disaster recovery funds for disaster damages not fully covered by insurance or other compensation. They do not duplicate benefits of other agencies or organizations.

DAMAGE ASSESSMENT

Individual Assistance (IA)

Primary residences for owner and renter, and businesses

Purpose of the IA PDA is not to document all damage.

All determinations should be based on viewed damage and focus only on disaster-related damage.

Recreational and other common areas of the basement are non-essential living space, and assessments and damage should be evaluated as though the basement is unfinished.

DAMAGE ASSESSMENT

IA Preliminary Damage Assessment

- An IA Preliminary Damage Assessment (PDA) Helps Determine if Enough Damage Exists to Support a Request for:
 - Presidential Declaration of Emergency or Major Disaster
 - OR
 - A Small Business Administration Declaration

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IA DAMAGE ASSESSMENT

Individual Assistance (IA) Evaluating Degree of Damage

Destroyed

Major

Minor

Affected

Inaccessible

IA DAMAGE ASSESSMENT

Destroyed: The residence is a total loss, or damaged to such an extent that repair is not feasible.

- Complete failure of two or more major structural components - e.g. collapse of basement walls, foundation, load-bearing walls, or roof
- Only foundation remains
- Residents can not remain in the structure.

IA DAMAGE ASSESSMENT

Major: The residence has sustained significant structural damage and requires extensive repairs.

- Failure or partial failure to structural elements of the roof, walls or foundation
- Residences with a water line 18 inches above the floor in an essential living space, or water that covers electrical outlets
- Residents can not remain in the structure and dwelling that will take more than 30 days to repair

IA DAMAGE ASSESSMENT

Minor: Does not affect the structural integrity of the residence.

- Home is damaged and uninhabitable, but may be made habitable in less than 30 days.
- Water line less than 18 inches in an essential living space
- Damage to or submersion of mechanical components, e.g. furnace, boiler, water heater, HVAC, electrical panel, pressure tanks or well pressure switch, etc.
- Damage, or disaster related contamination, to private well or septic system



IA DAMAGE ASSESSMENT

Affected: Residences with minimal damage to structure and/or contents. Residents can remain in the structure.

Inaccessible: Homes that cannot be accessed or viewed at the time of the assessment.

- bridge out, road flooded or blocked by landslide, mudslide, severe erosion, washed out, etc.

IA DAMAGE ASSESSMENT

Team Assessment Methods

Windshield Survey—Generally, the local representative will take the teams by car to the affected areas. The teams will record observed damages and hazards while driving through these areas, periodically stopping to conduct interviews to provide anecdotal evidence related to insurance coverage, occupancy type (owner or renter), and other significant information to support census information collected by the IA PDA Coordinator. This process is repeated street-by-street for the team's assigned area.

Door-to-Door—A higher level of detail and household specific data can be gathered through this method. The teams are created and dispatched in the usual manner, but once in the affected areas they survey door-to-door. This level of verification is labor intensive but highly accurate. Generally, the team will speak with the occupant at the door. In the rare instance when damage can only be viewed from inside the house, the team may enter the home but only upon the verbal request of the occupant and when the entire team agrees the situation is safe and necessary.

Fly-Over— Large scale or accessibility is an issue or to access remote areas.

IA DAMAGE ASSESSMENT

Impact

Structures Damaged By Category

Deaths-injuries-missing

Mass Shelters Open & # Sheltered

Impact-All Serious Impact Should be Reported and Supported to include

% Of Low Income Families Affected

% With Flood/hazard Insurance

IA DAMAGE ASSESSMENT

Municipality-County Initial Damage Report for Individual Assistance

State: Pennsylvania		County:			Date of Assessment:				
Incident:		Municipality:			Page	of	pages		
IDR Team	Municipal POC / phone #:				PEMA Personnel:				
	County Personnel:				Other Personnel:				
STRUCTURES CATEGORIES		SINGLE FAMILY	MULTI - FAMILY	MOBILE HOME	Total Surveyed	% Owner Occupied	% Flood Insurance	% Homeowners Insurance	% Low Income
AFFECTED	owner								
	renter								
	secondary residence								
					TOTAL Affected:				
MINOR	owner								
	renter								
	secondary residence								
					TOTAL Minor:				
MAJOR	owner								
	renter								
	secondary residence								
					TOTAL Major:				
DESTROYED	owner								
	renter								
	secondary residence								
					TOTAL Destroyed:				
INACCESSIBLE	owner								
	renter								
	secondary residence								
					TOTAL inaccessible:				
CASUALTIES	fatalities	injuries	missing	TOTAL OWNER	% Owner Occupied	% Flood Insurance	% Homeowners Insurance	% Low Income	
HUMAN IMPACT	hospitalized	evacuated	sheltered	TOTAL RENTER	TOTAL secondary residence				
					TOTAL Homes (owners & renters):				
SPECIAL NEEDS POPULATIONS	elderly	disabled	children	# Households Without Electricity:					
					Est. Date and Time of Restoration:				
BUSINESSES	AFFECTED	MINOR	MAJOR	DESTROYED	INACCESSIBLE	total employees impacted			
COMMENTS AND SIGNIFICANT IMPACTS:									

IA DAMAGE ASSESSMENT

City, County, or Page #		Affected Habitable				Minor				Major				Destroyed				Not Primary	Inaccessible	Pvt Road / Bridge	Utilities Out	Other	
		Single Family		Multi Family		Manufactured Home		Low Income Insured		Single Family		Multi Family		Manufactured Home		Low Income Insured							
		O	R	O	R	O	R	O	R	O	R	O	R	O	R	O	R	5	6	7	8	11	
		1	2	1	2	1	2	1	2	3	4	1	2	1	2	3	4						
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
Totals		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Category Totals		0				0				0				0									

DAMAGE ASSESSMENT

PUBLIC ASSISTANCE (PA)

For emergency and permanent repair or replacement of event damaged infrastructure

Permanent repair or replacement value based on value of what you had not what the replacement will be

IN PA EVERYONE COUNTS!

**COMMONWEALTH OF PENNSYLVANIA
PUBLIC ASSISTANCE THRESHOLD**

\$18,164,402

Per Capita*

12,702,379

POPULATION – 2010 U.S. CENSUS

***\$1.43 Per Person Based on October 1, 2016**

Consumer Price Index Adjustment

ELIGIBLE PA APPLICANTS

- **State Government Agencies**
- **County and Local Governments**
- **Municipal Authorities**
- **School Districts**
- **Certain Private Non Profit Organizations**



DAMAGE CATEGORIES

Types of Damages under PA

 A-Debris Removal **(Emergency Work)**

 B-Emergency Protective Measures **(Emergency Work)**

(Categories below are **Permanent Work**)

 C-Roads and Bridges

 D-Water Control facilities

 E-Buildings and Equipment

 F-Utilities

 G-Parks, Recreation and Other

DAMAGE CATEGORIES

Types of Costs

In House Labor, Equipment and Material

2015 FEMA Equipment Rates are on the PEMA web site

Contracted Work.....(Procurement??)

Engineering

PA DAMAGE ASSESSMENT



Disaster response and recovery begins with you.



You can best identify damaged facilities and the cost to repair



Roads and bridges



Sewer and water plants



Schools



Hospitals



Parks



You can best identify the impact of the event.



Budgets



Police, fire, EMS delays (how long of delay, detours)



Interruption of schools and critical infrastructure

PA DAMAGE ASSESSMENT

We need descriptions and locations:

- **Estimated Dollar cost** to fix it or replace it back to the way it was
- **Estimated Dollar cost** to clean it up
Quantity or what where
- **Impact** on community services, access and budget

PA DAMAGE ASSESSMENT

PA DAMAGE ASSESSMENT

2016-2017 Public Assistance County and State Threshold Figures

using 2010 Census Figures

County Per Capita \$3.61
State Per Capita \$1.43

Updated 10/3/2016 by RAW

County	Population	Per Capita	Threshold	County	Population	Per Capita	Threshold
Adams	101,407	\$3.61	\$366,079.27	Lackawanna	214,437	\$3.61	\$774,117.57
Allegheny	1,223,348	\$3.61	\$4,416,296.28	Lancaster	519,445	\$3.61	\$1,875,196.45
Armstrong	68,941	\$3.61	\$248,877.01	Lawrence	91,108	\$3.61	\$328,899.88
Beaver	170,538	\$3.61	\$615,645.75	Lebanon	133,568	\$3.61	\$482,180.48
Bedford	49,762	\$3.61	\$179,640.82	Lehigh	349,497	\$3.61	\$1,261,684.17
Berks	411,442	\$3.61	\$1,485,305.62	Luzerne	320,918	\$3.61	\$1,158,513.98
Blair	127,088	\$3.61	\$468,791.28	Lycoming	116,111	\$3.61	\$419,160.71
Bradford	62,622	\$3.61	\$226,065.42	McKean	43,450	\$3.61	\$156,854.50
Bucks	625,248	\$3.61	\$2,257,148.88	Mercer	116,638	\$3.61	\$421,063.18
Butler	183,862	\$3.61	\$663,741.82	Mifflin	46,682	\$3.61	\$168,522.02
Cambria	143,678	\$3.61	\$518,681.19	Monroe	169,842	\$3.61	\$613,129.62
Cameron	5,088	\$3.61	\$18,366.88	Montgomery	799,874	\$3.61	\$2,887,545.14
Carbon	65,248	\$3.61	\$235,548.88	Montour	18,267	\$3.61	\$66,943.87
Centre	153,990	\$3.61	\$555,903.90	Northampton	297,735	\$3.61	\$1,074,823.35
Chester	498,886	\$3.61	\$1,800,978.46	Northumberland	94,528	\$3.61	\$341,246.08
Clarion	39,988	\$3.61	\$144,356.68	Perry	45,968	\$3.61	\$165,948.08
Clearfield	81,642	\$3.61	\$294,727.62	Philadelphia	1,526,008	\$3.61	\$5,508,881.68
Clinton	39,238	\$3.61	\$141,649.18	Pike	57,368	\$3.61	\$207,102.08
Columbia	67,298	\$3.61	\$242,934.98	Potter	17,457	\$3.61	\$63,019.17
Crawford	88,768	\$3.61	\$320,441.68	Schuylkill	148,288	\$3.61	\$535,323.28
Cumberland	235,408	\$3.61	\$849,815.68	Snyder	39,702	\$3.61	\$143,324.22
Dauphin	268,100	\$3.61	\$967,841.00	Somerset	77,742	\$3.61	\$280,648.62
Delaware	558,978	\$3.61	\$2,017,914.18	Sullivan	6,428	\$3.61	\$23,205.08
Elk	31,948	\$3.61	\$115,325.08	Susquehanna	43,358	\$3.61	\$156,515.18
Erie	280,568	\$3.61	\$1,012,843.28	Tioga	41,981	\$3.61	\$151,551.41
Eayette	136,608	\$3.61	\$493,147.68	Union	44,947	\$3.61	\$162,258.67
Forest	7,718	\$3.61	\$27,854.78	Venango	54,984	\$3.61	\$198,492.24
Franklin	149,618	\$3.61	\$540,120.98	Warren	41,814	\$3.61	\$150,952.14
Fulton	14,848	\$3.61	\$53,590.48	Washington	207,820	\$3.61	\$750,230.20
Greene	38,688	\$3.61	\$139,656.48	Wayne	52,822	\$3.61	\$190,687.42
Huntingdon	45,912	\$3.61	\$165,745.92	Westmoreland	365,168	\$3.61	\$1,318,260.08
Indiana	88,880	\$3.61	\$320,866.80	Wynoming	28,278	\$3.61	\$102,076.38
Jefferson	45,200	\$3.61	\$163,172.00	York	434,972	\$3.61	\$1,570,248.92
Juniata	24,638	\$3.61	\$88,936.98				
				State	12,702,379	\$1.43	\$18,164,402

Effective October 1, 2016, the large PW amount increased from \$121800 to \$123100.

Effective October 1, 2016, the minimum amount for PW eligibility increased from \$3050 to \$3100.

The Individuals and Households Program (IHP) amount of assistance increased from \$33000 to \$33300.

PA DAMAGE ASSESSMENT

PEMA DAP-19

LOCAL PUBLIC DAMAGE ASSESSMENT (Gov't/PNP Public Assistance Program)

LIST OF DAMAGED SITES & SITE ESTIMATES

Page 1 of ____

DISASTER EVENT _____

MUNICIPALITY/ APPLICANT _____ POPULATION _____ COUNTY _____

DATE ____/____/____

MUNICIPALITY/ APPLICANT ADDRESS _____ APPLICANT

PHONE () _____

DATE FISCAL YEAR BEGAN ____/____/____ TOTAL ANNUAL BUDGET= \$ _____ UNCOMMITTED BALANCE AS

OF ____/____/____ = \$ _____

ANNUAL MAINTENANCE BUDGET= \$ _____ UNCOMMITTED BALANCE AS OF ____/____/____ = \$ _____

POC NAME _____ POC PHONE () _____ POC FAX () _____ POC E-

MAIL _____

POC ADDRESS _____ PDA TEAM

MEMBERS _____

Site #	Dam. Cat.	Location (street address, directions from known point, or GPS coordinates – provide municipal/township map)	Damage, Description, Dimensions (give facility name, length-width-depth-sf-sy-cy-tons-number of items, etc; include equipment, labor, cost of debris removal & emergency protective measures-refer to Examples of Damage Descriptions)	Local Estimate of Cost-\$	Insurance Coverage Yes, No, Unknown	Adverse Impact of Damage (public health & safety – essential / critical facilities- population adversely affected)	Special Considerations (1)
1							
2							
3							

*Attach Additional PEMA DAP-19 Sheets As Needed

Annotate local map to show site numbers above. Use reverse for detailed description of adverse effect on essential / critical facilities such as:

Hospitals, Schools, Nursing Homes, Transportation, Communication, Water, Sewer, Emergency vehicle access, and Public Health and Safety.

¹ **Special Considerations** - Does the site have potential for: **Hazardous Materials (HZ)** - Unidentified drums, asbestos, transformers with PCBs, oil slick, etc.? **Historical Significance (HIST)** - Site over 50 years old,

located in historical district, plaque on building, etc? **Environmental Issues (ENV)** - Wetlands, endangered species, water supply contamination, sewage spill, etc? **Insurance (INS)** - Is structure or contents insured, in

100-year floodplain?

PA DAMAGE ASSESSMENT

PEMA DAP-17

COUNTY CONSOLIDATED PUBLIC ASSISTANCE PRELIMINARY DAMAGE ASSESSMENT (PDA)

COUNTY _____ DATE _____

_____ PAGE ____ OF ____ PAGES

COUNTY ANNUAL BUDGET _____ EVENT _____

COUNTY POC (Name/Title) _____ COUNTY POC PHONE # _____
FAX # _____

APPLICANT OR MUNICIPALITY	A DEBRIS REMOVAL	B EMERG PROTECT MEASURES	C ROADS, BRIDGES	D WATER CONTROL FACILITIES	E BUILDINGS & EQUIP	F PUBLIC UTILITIES	G PARKS REC. OTHER	TOTAL ESTIMATED DAMAGE COST	ESTIMATED INSURANCE COVERAGE DOLLARS	NET ESTIMATED UNINSURED DAMAGES
County Cost	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
TOTALS	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

ATTACH ADDITIONAL PEMA DAP-17 SHEETS AS NEEDED

ATTACH THE LIST OF DAMAGED SITES, NARRATIVE DESCRIPTION OF DAMAGES, AND FINANCIAL/IMPACT OF DAMAGES (PEMA FORMS DAP-19) FROM THE APPLICANTS



CONTACT INFORMATION

PEMA - Public Assistance Office



1310 Elmerton Ave. Harrisburg PA 17110



1-800-635-9692



Website: <http://www.pema.pa.gov>

IA and PA Forms for Assessment



Email to: ra-emborm@pa.gov

FEMA



Website: <http://www.fema.gov>