Oklahoma Department of Emergency Management and Homeland Security



Purpose of Briefing

- Status of Declaration Request
- Preliminary Damage Assessments
- High Level Debris Information
- DEQ Presentation

Opening Comments from Director Gower

No FEMA Declaration YET

As of 10.30.2020

Status of Request

- Preliminary Damage Assessments
  - Virtual
- Federal Request
  - May come in phases

Thresholds/Indicators

- State Indicator – About 6 million minimum
- County Indicator – Varies by County due to population

Preliminary Damage Assessment

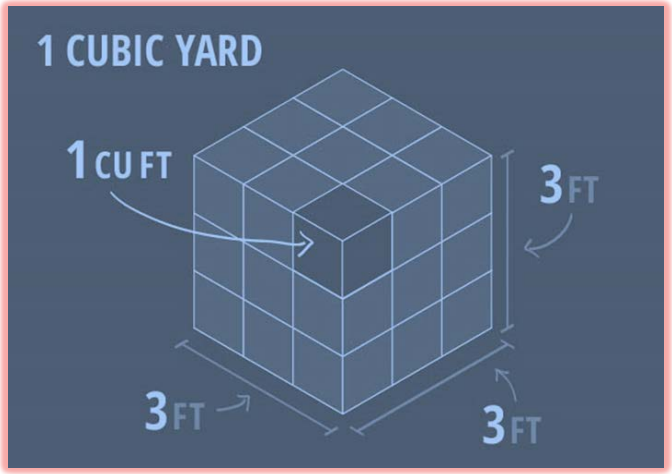
Virtual

- FEMA will be conducting virtual PDAs
  - Record video of hard-hit areas
  - Pictures with GPS coordinates
  - Estimate debris quantities
    - Include details on the methodology used for the estimate
    - Identify the types of debris
    - Contracting documents with estimates of debris (if available)


Debris

Quantifying Debris

- A cubic yard (cy)
  - 1 cy = 1 yd. wide x 1 yd. long x 1 yd. deep
  - Volume of 1 cy = 27 $ft.^3$
- Most wheelbarrows hold about 3 cubic ft. of material. It takes about 9 loads per cy



Estimating Debris



1 cy

≅

size of washing machine

- How can the debris be quantified?
- What are potential eligibility issues?

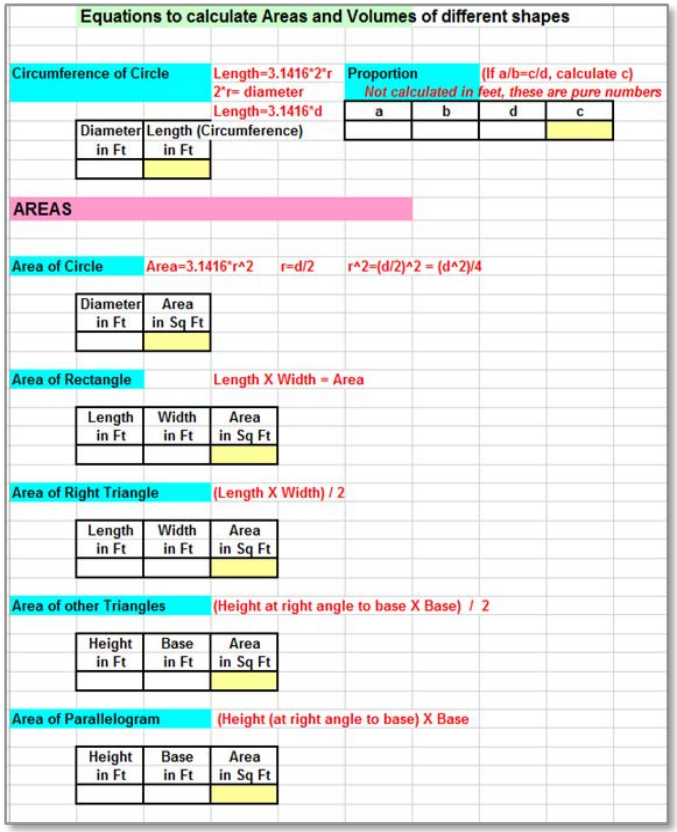


Measuring as a box



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Calculations and Conversions



Equations to calculate Areas and Volumes of different shapes

Circumference of Circle — Length=3.1416*2*r; 2*r= diameter; Length=3.1416*d

Diameter in Ft	Length (Circumference) in Ft

Proportion (If a/b=c/d, calculate c) — *Not calculated in feet, these are pure numbers*

a	b	d	c

AREAS

Area of Circle — Area=3.1416*r^2 r=d/2 r^2=(d/2)^2 = (d^2)/4

Diameter in Ft	Area in Sq Ft

Area of Rectangle — Length X Width = Area

Length in Ft	Width in Ft	Area in Sq Ft

Area of Right Triangle — (Length X Width) / 2

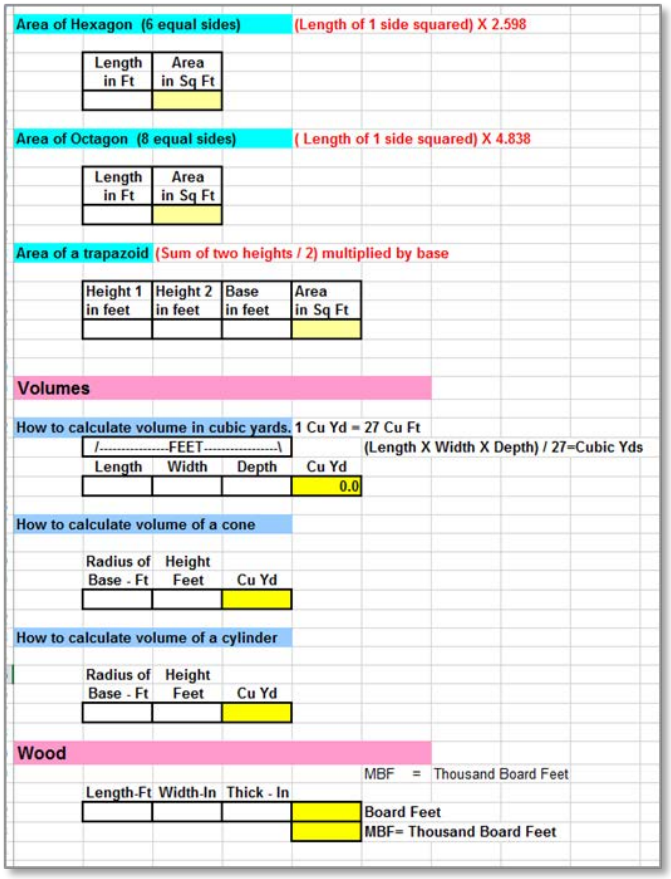
Length in Ft	Width in Ft	Area in Sq Ft

Area of other Triangles — (Height at right angle to base X Base) / 2

Height in Ft	Base in Ft	Area in Sq Ft

Area of Parallelogram — (Height (at right angle to base) X Base

Height in Ft	Base in Ft	Area in Sq Ft



Area of Hexagon (6 equal sides) — (Length of 1 side squared) X 2.598

Length in Ft	Area in Sq Ft

Area of Octagon (8 equal sides) — (Length of 1 side squared) X 4.838

Length in Ft	Area in Sq Ft

Area of a trapazoid (Sum of two heights / 2) multiplied by base

Height 1 in feet	Height 2 in feet	Base in feet	Area in Sq Ft

Volumes

How to calculate volume in cubic yards. 1 Cu Yd = 27 Cu Ft

(Length X Width X Depth) / 27=Cubic Yds

/----------FEET----------\			
Length	Width	Depth	Cu Yd
			0.0

How to calculate volume of a cone

Radius of Base - Ft	Height Feet	Cu Yd

How to calculate volume of a cylinder

Radius of Base - Ft	Height Feet	Cu Yd

Wood

MBF = Thousand Board Feet

Length-Ft	Width-In	Thick - In	
			Board Feet
			MBF= Thousand Board Feet

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Volumes

How to calculate volume in cubic yards. 1 Cu Yd = 27 Cu Ft

(Length X Width X Depth) / 27=Cubic Yds

/----------FEET----------\			
Length	Width	Depth	Cu Yd
15.0	19.0	4.0	42.2

How to calculate volume of a cone

Radius of Base - Ft	Height Feet	Cu Yd
15.0	5.0	43.6



Measuring the Debris

GPS Ending
47.23080
-96.69772

GPS
Beginning
47.85293
-96.69772



Debris Tracking

- Debris must be tracked from where it was picked-up to where it is disposed of

Contracting

Acceptable Contracts

Lump Sum	Work within prescribed boundaries; clearly defined scope and total price
Unit Price	Work done on an item-by-item basis with cost determined on a unit basis
Cost plus Fixed fee	Lump sum or unit price contract with a fixed contractor fee added into the price
Time & Materials	Now says – **"limited to a reasonable time based on circumstances during which a definitive clear scope of work could not be identified" You MUST be able to justify!**

Unacceptable Contracts

- Unacceptable Contracts
  - Cost plus percentage of cost contracts are **ineligible**.
  - Piggyback contracting is generally **ineligible**.
- Debarred Contractors
  - Must check the Excluded Parties List – www.sam.gov

Procurement

- 2 CFR
- Nationally Competitive
- Minority and Female Owned

Monitoring

- If contractors are hired, you must monitor their work

Contract Questions

- We are here to help
- FEMA Info: This site should have the most up to date information for contracting information.
  - https://www.fema.gov/grants/procurement

Force Account

- Tracking is key
  - Payroll – Needs to be contributable to the disaster
  - Tying personnel to equipment usage
  - Document where the work is preformed
  - Debris needs to be tracked from beginning to the end

Donated Resources

- Donated resources can be used to offset the non-federal share of eligible work costs. Donated resources include volunteer labor, equipment, supplies and materials, and logistical support. Tacking sheets are attached to this message.

More to Come

- We will continue to send pertinent information as the situation develops

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Environmental & Historic Preservation (EHP)



All FEMA projects must comply with applicable Federal, state, and local environmental and historic preservation (EHP) laws

Best Practices

- Avoid placement of critical actions, such as temporary hospitals, in high-risk flood hazard areas
- Avoid placement in wetlands, brownfields, and other use restricted sites.
- Place tents, temporary structures, and modular units on existing parking lots, other hard surfaces, or improved surfaces and connect to existing utilities
- Avoid new ground disturbance when possible. Should ground disturbance reveal archaeological resources, notify FEMA and State Historic Preservation Officer immediately

For detailed information please review *COVID-19 Fact Sheet Environmental and Historic Preservation (EHP) and Emergency Protective Measures for COVID-19*

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