



Tulsa District (SWT) State Emergency Management Office Brief

18 February 2020

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Tulsa District
918-403-9857

Spring Outlook,
SA and Monitoring Tools,
USACE Support



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TULSA DISTRICT STATE EMERGENCY MANAGEMENT BRIEF



Project (OCT-NOV-DEC – Projects, Funding, P2, PMP's)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Flood Control and Coastal Emergencies (FCCE) – PM Kerri Stark - Bill Smiley. Additional Funding This FY: \$125,000.00 (1FTE)										
Keystone Dam Ark River AAR Meetings	X	X	X	X	X	X	X	X	X	X
OK OEM EOC Drill	X			X			X		X	
Council Grove and Dennison TTX's				X (2)						
Eufaula and Fort Supply TTX's					X (2)					
John Redmond and Tenkiller TTX's						X(2)				
Wister Lake TTX							X			
PIR's	X	X	X	X	X	X	X	X	X	X
Continuing Eligibility Inspections										
Flood AAR	X	X	X	X						
Wister Lake County EM Economist Study	1 st Qtr 20 - Nov									
National Emergency Preparedness Program (NEPP) – PM Kerri Stark. Additional Funding This FY: \$15,000.00										
COOP Plan Update Period and X			X	X	X	X				
FEMA R6 RISK Meetings	X		X			X		X		
Silver Jackets – PM Dawn Rice. Additional Funding This FY: \$255,000.00 (2FTE)										
911 Project	X	X	X	X	X					
Miami OK Project	X	X	X	X	X	X	X	X	X	X
Hutchins KS Project			X	X	X	X	X			
SJ Program Funds	X	X	X	X	X	X	X	X	X	X
OK Hazard Mitigation Team										
Chickasaw Nation (Kitchens)										
Emergency Support Function #3 – PM Kerri Stark – Chris Cox										
DTOS Unit	X	X	X	X	X	X	X	X	X	X
Power Team Training/Roll Call	X	X	X	X	X	X	X	X	X	X

**Before Disasters
Preparedness Support
60%**

**During Disasters
Response Support
10%**

**After Disasters
Mitigation
Recovery Support
30%**



TULSA DISTRICT STATE EMERGENCY MANAGEMENT BRIEF



Emergency Management - Risk To Resilience



Impacts vs Response vs Capability - Gap Analysis
Mitigation Projects Identification - Reduce Risk
Risk Communication/Trigger Development - Actions
Local and State Hazard Mitigation Planning - Integrate
Train and Educate - Community Preparedness
(Exercises-Projects-Response Planning-Partnerships)

Periodic and Annual Inspections
Initial Eligibility Inspections
Continuing Eligibility Inspections
Inspections of Completed Works
SQRA's and EAP's
Consequence Assessments
Failure Modes/Local Impacts

Dams/Levee's
Navigation
Power Generation
Ready and Reliable

USACE SPRING FLOOD OUTLOOK

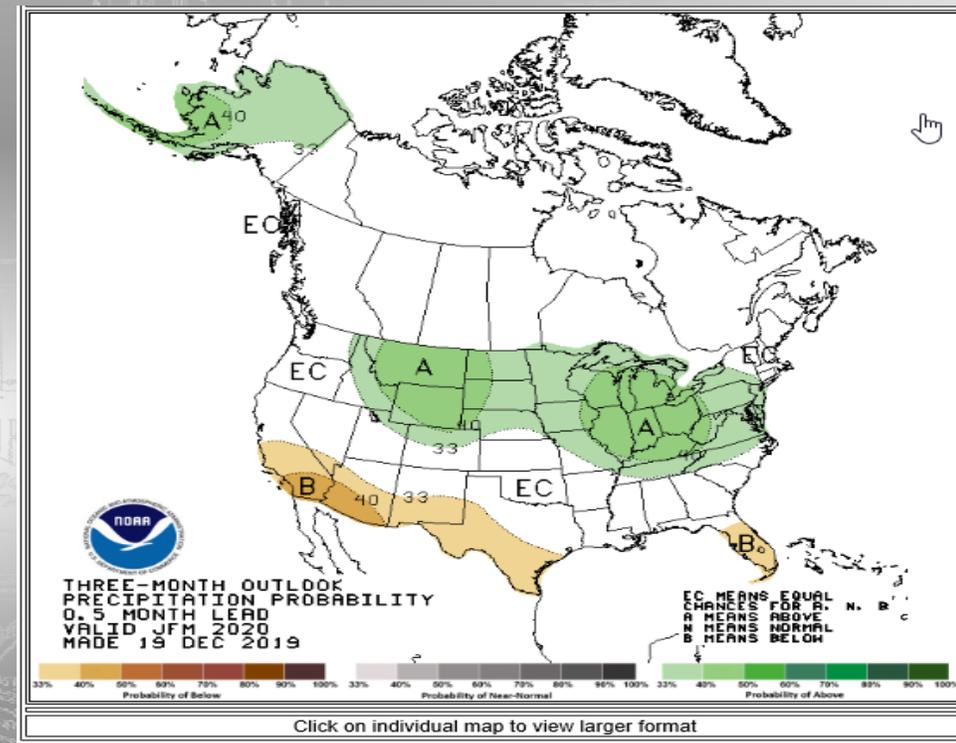
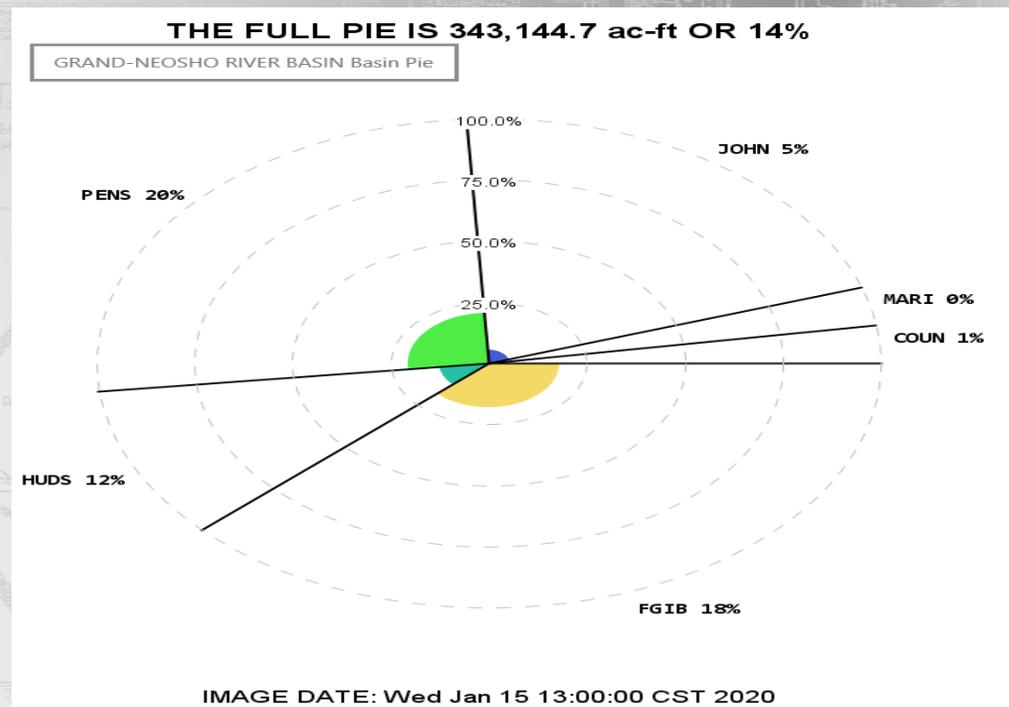


USACE Spring Flood Outlook

- National Weather Service/NOAA Outlooks.

USACE Annual Spring Flood Assessment

- Background of Current Conditions.
- General Conditions.



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USACE SPRING FLOOD OUTLOOK



Rehabilitation Status – PL84-99

- Eligibility based on inclusion into the USACE Rehabilitation and Inspection Program (RIP).

Levee Rehabilitation Status	E&D Progress	Award Scheduled	NTP
Coffeyville KS	65%	30 Aug	
Dodge City KS	65%	30 Jul	
Wichita KS	65%	15 Sep	
Fry Creek OK	65%	30 Jun	
Tulsa West Tulsa OK	10%	30 Aug	

Preparedness Activities – Coordination with State and Local Officials

- Pumps – Sandbags – Sand Bag Machine – Planning Actions – Event Monitoring.
- After Actions.
- Exercises: All PIR locations – Keystone, Council Grove, Wister, Eufaula, Great Bend, Augusta, Winfield, Ark City.
- Continuing Eligibility Inspections.
- Inspection Reports, Assessments, Damages, Performance of Systems.
- Risk Picture, Community Capacity, Increase Resiliency.



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USACE SPRING FLOOD OUTLOOK



Specific Areas of Concern:

- All PIR Locations
- All Impacts to Homes, Businesses, Social and Political Systems
- People and Economic Impacts
- I Don't Know What I Don't Know – (Plan/Readiness)



OK Flood Mitigation and PL84-99 Project



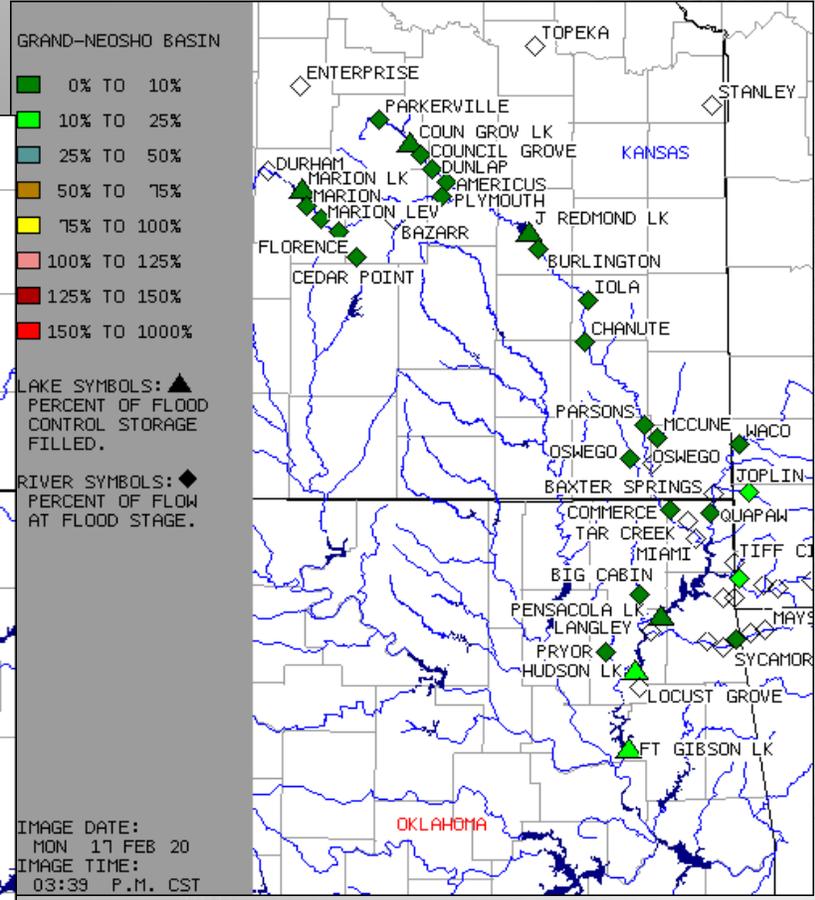
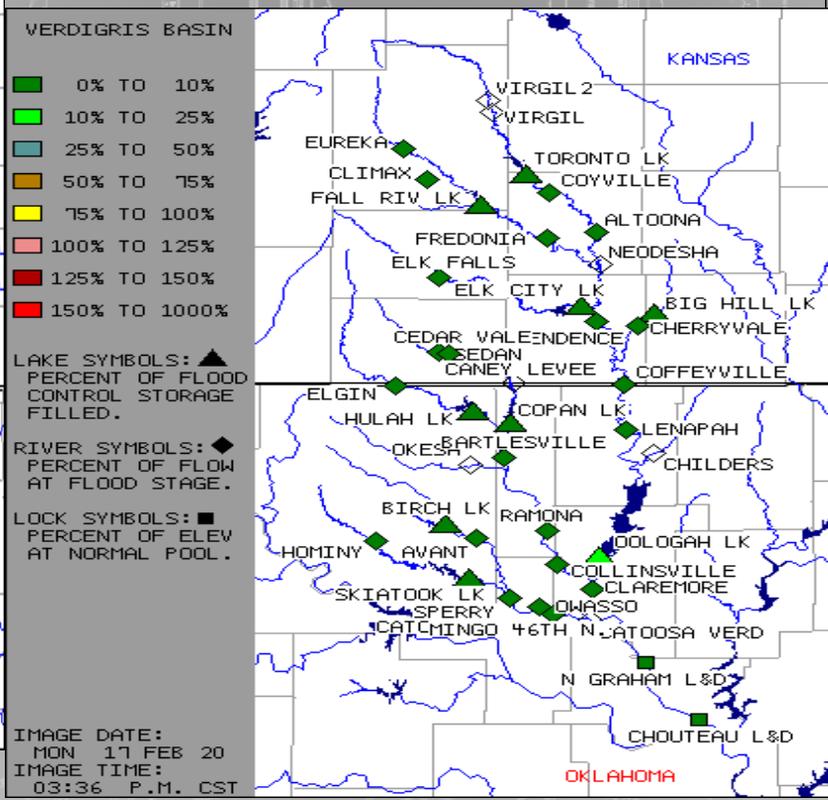
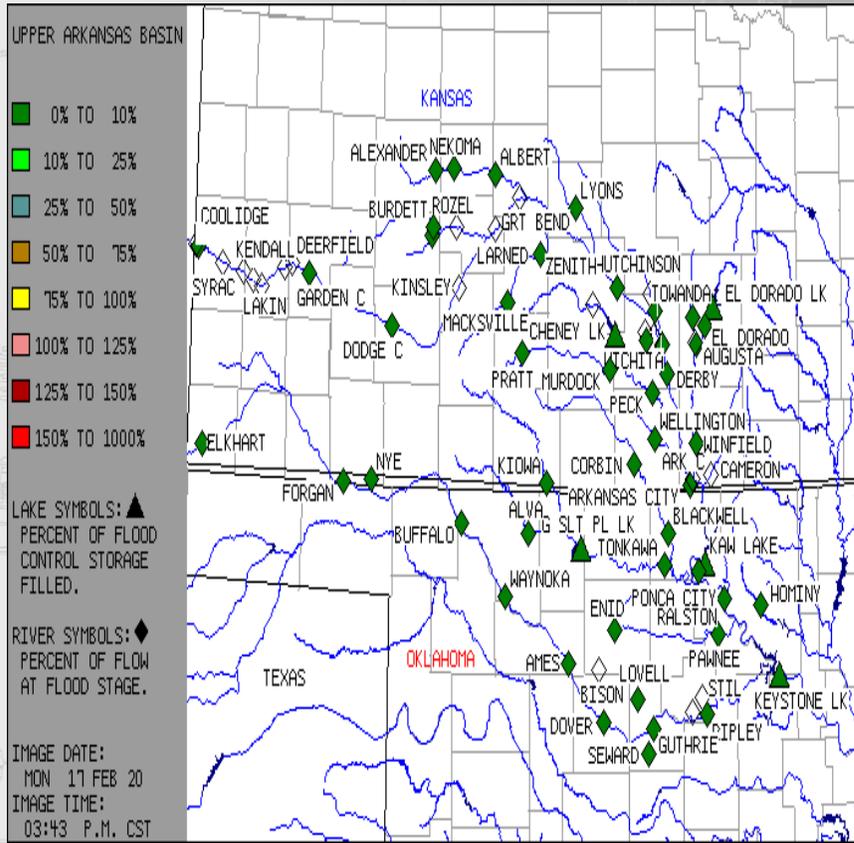
Full Barge(s) Vs Lock and Dam Structure



SITUATIONAL AWARENESS TOOLS



NWS River Gage Website
USACE Tulsa District Water Control Page



SITUATIONAL AWARENESS TOOLS



USACE Projects Pool of Record, Downstream Discharge/Channel Capacity Impacts

Project	Top of FCP	High/Record Discharge (Date)	Channel Capacity T-Trigger	Levee Attached to the Project	Impact Description
John Redmond	1068	12,700(98)	16,000 T-10K	Hartford	Big Hill, Toronto, Elk City (Levee), El Dorado (Chelsea Levee) Coffeyville Refinery. Wolf Creek Nuclear Plant
Pensacola	755	175,000 (15)	100,000 T-80K	Wyandot and OK Ordinance Works	Google, Day Care Center. Toxic Industrial Materials (TIM). Oklahoma Ordinance Works
Ft Gibson	582	152,000 (15)	100,000 T-80K	Wagoner Dike 10	Residential 50 Homes. Wagoner OK
Tenkiller	667	31,000 (15)	13,300 T-10K	None	Water Treatment Plant. Highway 82/10. Marval Family camp
Keystone	754	310,000 (86)	100,000 T-50K	Tulsa West Tulsa and Cleveland	Toxic Industrial Materials Plant(s), 15K People. Evacuation. 160,000 Holly Refinery. 2B Economic Impact.
Canton	1638	1,200 (14)	1,000 T-700	OKC Floodway	OKC Downtown 15Ft of water.
Eufaula	597	240,000 (93)	40,000 T-150K	None	WTP on Lake (25K People). 173KCFS (15)
Broken Bow	627	24,000 (15)	8,000 T-5K	None	Fishery, Tyson Food, Water Treatment Plant (50K People)
Hugo	437	(15)	20,000 T-15K	None	Red River Impacts
Texoma	640	80,000	50,000 T-25K	Cumberland	Spillway. Dennison, Choctaw OTSA, Red River, LA
Red River	24ft	36Ft (38)	35ft (15) T-30ft	Y-None Fed (Bowie)	MVD and Louisiana MVN.
Tulsa Levee	637	310,000(86)	100,000 T-50K	Y-Fed	50,000CFS Alert Trigger for LD12 IMT (SWIF)
MKARNS	28ft	48.2(43) 35.4(15)	300,000 T-200K	Y-None Fed	Muskogee County. Mays County. Moffett OK, Ft Smith, Van Buren, ARK Nuclear ONE, Muskogee Water Treatment Plant, Meadows Housing

Triggers and Impacts



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SITUATIONAL AWARENESS TOOLS



Flood Decision Support Battle Sheet

Historical Event Information and General Risk Communications

NOAA reports 9 Significant Floods in SWT since the 1930's. SWT has on record approximately 8 Declared Emergencies for floods occurring in the AOR in this period. Tulsa alone had 9 Federally Declared Flood Emergencies in a 15 year period. The most frequent/impactful declared emergencies areas are: Southeast OK and Northeast TX – Texoma, Broken Bow and Hugo, Red River, Northeastern OK and Southeastern KS – John Redmond, Bartlesville, Coffeyville KS and Miami OK. Central OK – Pensacola (GRDA), Ft Gibson, Tenkiller and Keystone Lake. USACE Manages 6 O&M Levee's. See sheet on second page. Federal Levees of concern are Tulsa West Levee System. Has an active System Wide Improvement Framework (SWIF).

Emergency Operations Center Phases

Phase	Action Stage (Hrs)	Participants
Readiness	Ready Briefs, Battle Sheet Reviews, Micro Exercises	Incident Management Team, ESF's, Support Agencies/Partners
Monitoring	Daily SITREP's etc	IMT and Support Agencies
Level 4	Alert	Add Support Agencies
Level 3	Partial Activation (7hrs)	Add Specific ESF's
Level 2	Moderate Activation (12hrs)	Add All ESF's/Support Agencies
Level 1	Full Activation (24hrs)	All External Support Agencies

Coordinating Conference Calls

Call in Number: 888-675-2535, Leader: 9062335, Access: 3877324, Participant Code: 9578364, Security Code: 1234, Duty Officer: 918-403-9857

EOC Actions	E-3	E-2	24hrs
Notify IMT to have initial meet or telecon			
PAO update Media Reports			
Make Decision Points/Objectives			
Decide on Triggers to activate			
No activation - Monitor			
EOC Activation Quick Checklist			
Declare Emergency or Activate			
Review AAR Items with IMT			
Notify Partners/ESF's			
Notify Staff – PAO			
Set up KM/PAO Communications			
Check Battle Rhythm			
Set 24hr Objectives and Assign			

Standardized Battle Rhythm

Time	Brief	Lead
0900hrs	IMT	EOC Manager
1000hrs	Field Call	EOC Manager
1100hrs	ESF Meeting	EOC Manager
1400hrs	HQ/R6/IMAT	EOC Manager
1500hrs	Daily SITREP	EOC Manager
1600hrs	Daily PIO Report	PIO
1700	Shift Brief	EOC Manager

Risk Communication and Triggers

Immediate Risk(s)	Contributor Risks	Triggers
Dam Failure or overtopping, levee failure, down stream flooding out of channel capacity, Flash Flooding in low lying areas	Lake filling up, relief well failure, toe drain failure, creeks overflowing, flap gauges inoperable, pump station failure or generator failure, debris in or around drainage areas and culverts not cleaned.	50% of Projects Flood Control Pool. 50% of downstream channel capacity being or forecast to be released. Historic flood stage gauge level. NWS River Forecast of Major Flood Stage

Resource and Equipment Availability

Resource/Lead	Amount	Time
EM Specialist – USACE	2	2hrs
HESCO – USACE	1500Ft	4hrs
Flood Coord Group - USACE	12	1hr
Crisafulli Pumps-USACE	2	4hrs
Sandbags-USACE	400,000.00	12hrs
Evacuation Order-Locals	Based On Area	12hrs
PL84-99-USACE	Tech Assistance	4hrs
Sandbag Machine-USACE	15K Bags/Day	8hrs
EMAC Support-State	SME's	12hrs

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SITUATIONAL AWARENESS TOOLS



Tulsa West Tulsa System Wide Improvement and Integrated Emergency Operations Plan



- ★ Historical or RA Critical Failure Point. Immediate Concern.
- ★ Historical or RA Critical Failure Point. Near Term Concern.
- ★ LEPC, TIM, DHS, CIKR, or Impacted Neighborhood

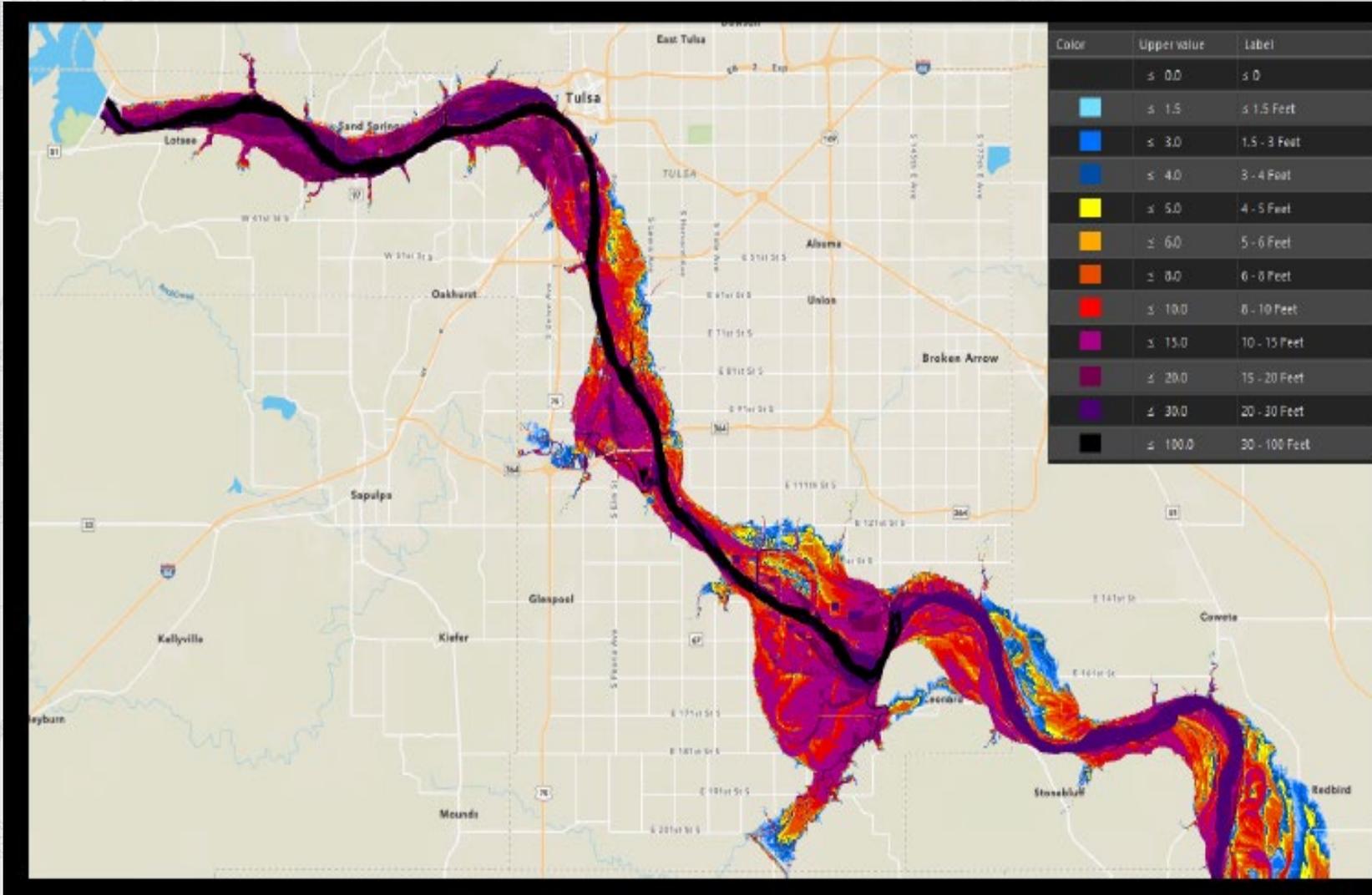
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Pumps from NWK	4+	12hrs
Sandbags	400,000.00	12hrs
Evacuation Order	Based On Area	12hrs
PL84-99	Tech Assistance	4hrs
Sandbag Machine	15K Bags/Day	8hrs
EMAC Support	10 SME	12hrs

PLANNING USE ONLY. Levee Elevations, River Stages, and Cubic Feet Per Second

Risk Area	Levee Elevation (Trigger)	Est River Stage (Trigger)	Est CFS (Trigger)
River Gage at I244	637(627)	22ft (12ft)	234,000cfs/100,000
Levee (ABC)	640	25Ft	297,000cfs
Levee (ABC)	643	28ft	350,000cfs

SITUATIONAL AWARENESS TOOLS



Oklahoma Governors Office request to SWT EM data collection project. This project assessed impacts and provided a actionable data set which will be used to provide both Structural and Non Structural Interventions along the Arkansas River Corridor and other communities impacted by the 2019 Historic Flooding. Part of the data collected includes a coordinated Hydrology effort among USACE and External partners to deliver a product in a GIS format that can be sent to local Emergency Managers during flood events in real time via a text system on telephones. This project will increase Statewide Flood Resilience and will be rolled out during Table Top Exercises and Community Leader Training in 2020.



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USACE – TULSA DISTRICT SUPPORT



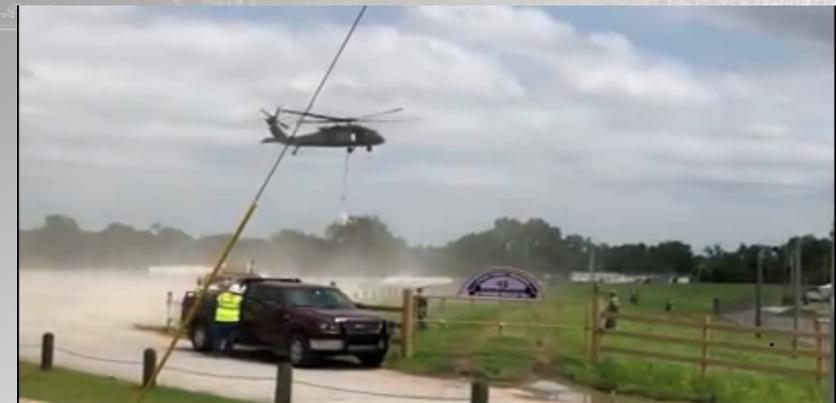
Support Begins at Home:

- Acting on Inspections and Reports.
- Developing partnerships to understand risk picture.
- Participating in Exercises and Community Leader Training.
- Existing Planning supports quick actions.
- Alerting and Monitoring Early.
- Ask Early.



PL84-99 Support:

- Based on States Acting First.
- Request from Governors Office – EM Director.
- Criteria for acting/advance measures.
- Existing Planning supports quick actions.



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Questions

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