# Preparing The Project Detail Form

DIANE HOWE – FEMA REGION 6, RISK MAP LEAD MICHAEL JOHNSON – COMPASS CNMS LEAD







### 2020 REGION 6 CTP WORKSHOP









### 2021 REGION 6 CTP WORKSHOP



# Preparing the Project Detail Form

### Introduction

- What is the point of a Project Detail Form?
- When should CTPs be putting them together?
- When should they be provided to FEMA?
- Where are the PDF templates?
- Are there any examples to follow?
- What needs to be included on the PDF?
- Contacts

## What's the Point of a Project Detail Form?

- Informs Region 6; used in project decision making
- Part of your State Business Plans or Priorities List
- Developing KDPs (Key Decision Points)
- Used in Communications:
  - Congressional & Media Briefings
  - Public Outreach
- Informs Metrics: NVUE gained
- Communication tool for Discovery Findings Meeting
- Informs Quantities and Baseline Schedule form (QBS)
- Informs FEMA's Project Purchasing and Planning Portal (P4)







## Informs Project Decision Making



- What is the project?
- NVUE gain
- Leverage
- Development pressure/ increased claims
- Intent to adopt higher standards
- Not a <u>LOMR</u>
- Community/Political will
- Timing of project
- Available funding
- Partner past performance





## Informing the KDP

The Key Decision Point (KDP) process is a formal method to document the decision to advance forward in a Flood Risk Project's lifecycle at six distinct points and to document the rationale behind these decisions.







## When Should They Be Provided To FEMA?



A. December 31<sup>st</sup> - with the Business Plan or Project Priority List

B. Throughout the year, when they are identified





## When Should We Put A Project Detail Form Together?









## Where Are The Templates Located?

https://rmd.msc.fema.gov/regions/v i/sitepages/r6%20multi%20year%20 investment%20planning.aspx

- Ph0 Riverine Base Level Engineering
- PhI Discovery\_Coastal
- PhI Discovery\_NonAccredited Levee
- PhI Discovery\_Riverine
- Ph2 Levee LAMP\_Analysis
- Ph2 Riverine\_EngDatasets

SharePoint - Risk Manager BROWSE FILES LIBRARY	ment Directorate	No Souching I			L Color			€
	SK MANAGEMENT RECTORATE	R6MultiYrPla	an » _Project Det > Regions > Region 6	ail	FC		n more	Searc
Home Divisions Region	ns Featured Resources	Help Center						
Region 6 Home	(+) new document	or drag files here						
Mapping Partners	All Documents	Find a file						
Multi-Year Plan	d D Nor				EV.	Free de d (Plane and	Mahila	14 - 110 - 1
Resources	<ul> <li>Name</li> <li>EV31BuruMacon</li> </ul>	rojectDatailForm Discovery Redac	tad		FT EV21	Funded/Planned	CTR	Modified
Base Level Engineering	EV21COMsLave	eDroiectDetailForm_Redacted	lieu		EV21	Planned	CTP	Wednesday at 10:57 AM
Levee Studies	Przicowsteve	- Posicial Contraining Reducted	dente d		FY21	Planned	CTP	Wednesday at 10:52 AM
InFRM Team	E DOAT-LES D	deriojectDetailForm_Discovery_Re	daeted		EV24	Planned	CTP	Wednesday at 10:53 AM
Floodplain Management	FY2110ledoBen	uprojectDetailForm_Discovery_Rec	uacteu		FY21	Planned	CIP	weunesday at 10:54 AM
Internal	FY21WhskyChit	torrojectDetailForm_Discovery_Re	dacted		FY21	Planned	CIP	weanesday at 10:54 AM
Recent	PDF_Resilience	Meeting_Riverine_BayouLiberyTche	etuncteWatershed_TWI_LA_FY201DRAFT		2021	Planned		February 17
Project Meetings	PDF_Resilience	Meeting_Riverine_LakeMaurepasW	/atershed_TWI_LA_FY201DRAFT (002)		2021	Planned		February 17
Training Sessions	Ph0_Amite_BLE				16	COMPLETE	PTS Std Ops (FY16)	November 6, 2018
Virtual Brown Bag (R6)	Ph0_BayouSara	Thompson_BLE			15	COMPLETE	PTS Std Ops (FY15)	November 6, 2018
River Basins	Ph0_BayouTech	ie_BLE			17	COMPLETE	PTS Std Ops (FY18)	November 6, 2018
TX_LowerRioGrande	Ph0_BlackLowR	edBayouCocodrie_BLE			16	COMPLETE	PTS Compass (TO16)	November 6, 2018
Phase Two	pir Lake Charles. Two pieces program. Charles, the construction Compension of the operation of pipe Lake Charles. As a resu (Riverine) – Risk Identification and Assessment	Terror washes to constrain an and the state of the state of largest: Only in the partial, is shown to the Calada and the state of th		nase Two (	Riverine) – I	Ouachita The Ouachi following co Poik, Scott, Hot Springs floodplain o Watershed, Risk Idem CNNK datal classified at	Headwaters (HUC 08040101)) a Headwaters Watershed largely include unites in Arkanas: Garland, Hot Spring, and Vel. The larget population centers i and Mena. Most of the surrounding area appling to use or enforce. In the Ouachil approximately 713.4 miller of stream ha- sate. Of the 713.4 stream miles, 390.6 str bing Vuiki, marki due to Mep Modern	Discovery portions of the Montgomen, Perry, Buttic Resolution (A& CTP) Party Comprision (A& CTP) Buttic Resolution a Headwater tave little to a have little to a have little to a the bean included in the rearm miles are MVUE Report
ek & Geronimo Creek-Phase 2 Risk n & Assessment tor Creek and Geronimo Creek watersheds continue to nd intense withan development. The City of New Brandf is products and models with NAAA Atlus 14 and updated is products and models with NAAA Atlus 14 and updated models to leverage for Alligator Creek and will be water crossing account.	Who: Guadulup-Elianco River Authority Request: P720 55 Cost: Target Completion Date: 10/2023 Leverage:	R data was collected by the USS in 2018 and is in the r a available next year when this project licks off. Allen Parish PMR Scope	Stream 6E1 Flood Risk (dentification (Phase 2)) The Cay of both supdate laws (by 0k) et also FIXM mapped at part of their 2007 Mag Modernization efforts and the FIXM CI program. There E11 was not stated as part of Map Mod or th program and is in need of a detail study.	reams as P FY10-FY1 ie CTP	Who: 1 6 Reque Target	Clay of Da efforts in th vat: PY18 combined a partnership combining to deploy the t	vering values, reaking user, to mage inducer inty, however, there are approximately 3 is watershed will allow for the CTP and F wilch optimize cost sharing opportuni hem with local community planned proj watersheds.	USION CONTRACT AND A
	Alligator & Geronimo Creek Matchales De Bandard Handry FATCID Creek	AURE GARD PARISH ALLEN PARISH Nuckor HTHES TOWN OF A					Sett	
		Pend DEFFERENCE DAVIS						
				C				-

### Examples to Follow

Region 6 -> Resources -> Multi-Year Plan -> Project **Detail Forms** 

https://rmd.msc.fema.gov/Regions/VI/R6MultiYrPlan/F orms/AllItems.aspx?RootFolder=%2FRegions%2FVI% 2FR6MultiYrPlan%2F%5FProject%20Detail%20Forms &FolderCTID=0x012000144AFF91156D2B4B87EF0B E8ED7C6A1A&View=%7BCDB35F5F%2D6305%2D4 006%2DB93F%2D250B5AA8E5F7%7D

#### Phase Zero (Riverine)– Investment – Base Level Engineering

#### **Project Name Here**

Include project narrative description here – What is the objective of this project? How was this project identified? What will be done with the Base Level Engineering Data? Used for Discovery? Used to engage unmapped counties/communities for use as local adopted flood data? Units of measure are unnecessary here as they are defined in the table that follows the exhibit.

Who: Add Organization Here (if CTP) or Note TBD Request: Add MM/YYYY or Fiscal Year Cost: Add Total \$\$\$ Target Completion Date: Add MM/YYYY BLE Miles: XX miles

#### Add Project Overview Exhibit Here

(show HUC8, CNMS and study stream lines, for inclusion in this exhibit)

#### **NVUE** initiation

Study Type	Effective (miles)		At Comple	tion (miles)	Delta (miles)		
	Valid Unk/Unv		Valid	Unk/Unv	Valid Unk/Un		
Not Mapped							
Zone A							
Zone AE							
Zone AE w/FW							

#### Project Scope Elements & Units (QA/QC costs should be included)

Task	Y/N	Description	Quantity	Unit	Cost
Terrain		Composite Digital Elevation Model (DEM) from LiDAR		Sq. Miles	
Hydrology		1D – Rural/Urban Regression w/ Gage Analysis		Sq. Miles	
		(10%, 4%, 2%, 1%,, 1%-, 1%, 0.2% events, min)			
		2D – Rain-On Grid Analysis		Sq. Miles	
		(10%, 4%, 2%, 1%,, 1%-, 1%, 0.2% events, min)			
Hydraulics		1D Modeling – Manual review of XS, add structure XS		Miles	
		(10%, 4%, 2%, 1%,, 1%-, 1%, 0.2% events, min)			
		2D Modeling – Manual grid manipulation for Zone A		Sq. Miles	
		(10%, 4%, 2%, 1%,, 1%-, 1%, 0.2% events, min)			
Flood Risk	х	Seamless Floodplains (10%, 1% and 0.2% events, min)		Watershed	
Datasets	Х	WSEL grids – 1% and 0.2% (min)		Watershed	
	х	Estimated Flood Depth grid – 1% and 0.2% (min)		Watershed	
	Х	BLE Hazus Analysis (min)		Watershed	
	Х	Point/Polygon File – Model Refinement Areas (min)		Watershed	
	Х	Line/Polygon File – Detailed Study Areas (min)		Watershed	
	х	Base Level Engineering Report (min)			
		Other Flood Risk Dataset – DEFINE		DEFINE	
			Tota	al Project Cost	

#### Additional Project Information

Include any additional pertinent information, data availability, follow up POCs for future data/leverage collection, etc....

Phase Two (Riverine) – Risk Identification and Assessment

#### **Project Name Here**

Include project narrative description here – What is the objective of this project? How was this project identified? Is there community support (or data/monetary leverage) for this project? Units of measure are unnecessary here as they are defined in the table that follows the exhibit Who: Add Organization Here (if CTP) or Note TBD Request: Add MM/YYYY or Fiscal Year Sost: Add Total \$\$\$ Target Completion Date: Add MM/YYYY

Leverage: Add \$\$\$

#### Add Project Overview Exhibit Here

FEMA + leverage

(show stream lines, structures, etc. included in study)

Page 3

Additional Project Information Include any additional pertinent information, data availability, follow up POCs for future data/leverage collection, etc.

N <sup>W</sup> _ gain						
Study Type	Effectiv	/e (miles)	At Comple	tion (miles)	Delta	(miles)
	Valid	Unk/Unv	Valid	Unk/Unv	Valid	Unk/Unv
Not Mapped						
Zone A						
Zone AE						
Zone AE w/FW						

#### Таы Y/N Description Quantity Unit Cost Collection from As-Built Drawings Field orructures Field Data Recon Structures Survey Field Data Collection - Stream Channel XS XS xs Field Data Collection - Floodplain XS Field Data Collection – Structure (Culvert) Structures Field Data Collection - Structure (Bridge) Structures Rural/Urban Regression w/ Gage Analysis Hydrology Sa. Miles Rain-On Grid Analysis Sq. Miles Rainfall Run-off Analysis (Rational) Sq. Miles Hydraulics 1D Model Refinement - BLE to Limited Detail Linear Miles 1D Model Refinement – BLE to Detailed Linear Miles 1D Model Refinement - New Floodway Linear Miles 1D Model Refinement - Refine Existing Floodway Linear Miles 2D Model Refinement - BLE to Limited Detail Linear Miles 2D Model Refinement - BLE to Detailed Linear Miles Linear Miles 2D Model Refinement - Floodway Analysis Linear Miles 1D Model Preparation – Zone A Floodplain Floodplain Preparation - 1% ONLY Linear Miles Floodplain Preparation - 1% and 0.2% Mapping Linear Miles Seamless Floodplain Boundary County Flood Risk Changes Since Last FIRM LUMP Datasets WSEL grid - 1% ONLY Study Area WSEL grid - 1% and 0.2% ONLY Study Area WSEL grid – Multiple (Specify Events) Study Area Flood Depth grid – 1% ONLY Study Area Flood Depth grid - 1% and 0.2% ONLY Study Area Flood Depth grid – Multiple (Specify Events) Study Area Freeboard grid - 1% ONLY Study Area Freeboard grid - 1% and 0.2% events Study Area Percent Annual Chance Grid Study Area 30 Year Chance Grid Study Area Hazus (Composite) - BLE & Refined Study areas Study Area Other Flood Risk Dataset - DEFINE DEFINE Accessory CNMS Submittal – Scoped Streams LUMP Elements FIS Text Sections (Hydrology & Hydraulics) County WSEL Profile (Partial) - 1% ONLY Linear Miles WSEL Profile (Full) - 10%, 4%, 2%, 1%, and 0.2% Linear Miles Flood Risk Report - including Exhibits & Tables Study Area Flood Risk Map Map Project Management (Not to exceed 10% of total) LUMP Total Project Cost

#### reject Scope Elements & Units (QA/QC costs should be included)

\$total

## **NVUE** Initiation

- What do I need to gather NVUE Initiation / Where is the information located?
- How do I get the CNMS database?
- Determining NVUE mileages from CNMS







### WHAT DO I NEED TO GATHER NVUE INITIATION? / WHERE IS THE INFORMATION LOCATED?

- To gather NVUE initiation mileages you will first need the Coordinated Needs Management Strategy (CNMS) database.
- CNMS is an inventory of FEMA's riverine and coastal mapped special flood hazard areas
- A Geospatial Database that tracks:
  - New, Validated or Updated Engineering (NVUE)
  - Unverified study reaches (need of restudy)
  - Flood mapping requests

## CNMS DATA

Each reach in CNMS has large amounts of information associated with it such as CO\_FIPS, CID, Water name, Flood Zone, Validation Status, Miles, HUC8 and more. This will be important for helping to select which mileages you will utilize for the NVUE initiation table. The FLD\_ZONE, VALIDATION\_STATUS, and MILES columns will be the most important data columns when filling out the NVUE table

Ta	able													
0	]• ₽•	I 🔓 🔂	M 📲 🗙					$\downarrow \downarrow$						
S_	Studies_Ln				$\checkmark$			$\mathbf{\nabla}$						
Г	CO_FIPS	CID	WTR_NM	WT	FLD_ZONE	VALIDATION_STATUS	STATUS_TYPE	MILES	SOURCE	STATUS_DATE	FY_FUNDED	HUC8_KEY	STUDY_TYPE	TIER
Þ	· 35006	350090	Grants Canyon		AE	VALID	BEING ASSESSED	2.108466	COUNTY FIRM DATABASE	12/8/2020	PRE-MAPMOD FUNDED	13020207	REDELINEATED	TIER 3
E	35053	350075	Rio Puerco	<nul< td=""><td>A</td><td>VALID</td><td>BEING ASSESSED</td><td>0.07461</td><td>COUNTY FIRM DATABASE A</td><td>11/16/2020</td><td>FISCAL YEAR 2010 FUNDED</td><td>13020204</td><td>NEW OR UPDATED APPROXIMATE</td><td>TIER 4</td></nul<>	A	VALID	BEING ASSESSED	0.07461	COUNTY FIRM DATABASE A	11/16/2020	FISCAL YEAR 2010 FUNDED	13020204	NEW OR UPDATED APPROXIMATE	TIER 4
E	35053	350075	Rio Puerco	<nul< td=""><td>A</td><td>VALID</td><td>BEING ASSESSED</td><td>0.827554</td><td>COUNTY FIRM DATABASE A</td><td>11/16/2020</td><td>FISCAL YEAR 2010 FUNDED</td><td>13020204</td><td>NEW OR UPDATED APPROXIMATE</td><td>TIER 4</td></nul<>	A	VALID	BEING ASSESSED	0.827554	COUNTY FIRM DATABASE A	11/16/2020	FISCAL YEAR 2010 FUNDED	13020204	NEW OR UPDATED APPROXIMATE	TIER 4
L	35053	350075	Rio Puerco	<nul< td=""><td>A</td><td>VALID</td><td>BEING ASSESSED</td><td>0.312329</td><td>COUNTY FIRM DATABASE A</td><td>11/16/2020</td><td>FISCAL YEAR 2010 FUNDED</td><td>13020204</td><td>NEW OR UPDATED APPROXIMATE</td><td>TIER 4</td></nul<>	A	VALID	BEING ASSESSED	0.312329	COUNTY FIRM DATABASE A	11/16/2020	FISCAL YEAR 2010 FUNDED	13020204	NEW OR UPDATED APPROXIMATE	TIER 4
L	35053	350075	Rio Puerco	<nul< td=""><td>A</td><td>VALID</td><td>BEING ASSESSED</td><td>0.077358</td><td>COUNTY FIRM DATABASE A</td><td>11/16/2020</td><td>FISCAL YEAR 2010 FUNDED</td><td>13020204</td><td>NEW OR UPDATED APPROXIMATE</td><td>TIER 4</td></nul<>	A	VALID	BEING ASSESSED	0.077358	COUNTY FIRM DATABASE A	11/16/2020	FISCAL YEAR 2010 FUNDED	13020204	NEW OR UPDATED APPROXIMATE	TIER 4
E	35053	350075	Rio Puerco	<nul< td=""><td>A</td><td>VALID</td><td>BEING ASSESSED</td><td>7.291502</td><td>COUNTY FIRM DATABASE A</td><td>11/16/2020</td><td>FISCAL YEAR 2010 FUNDED</td><td>13020204</td><td>NEW OR UPDATED APPROXIMATE</td><td>TIER 4</td></nul<>	A	VALID	BEING ASSESSED	7.291502	COUNTY FIRM DATABASE A	11/16/2020	FISCAL YEAR 2010 FUNDED	13020204	NEW OR UPDATED APPROXIMATE	TIER 4
E	35001	350001	Unnamed	<nul< td=""><td>AO</td><td>VALID</td><td>NVUE COMPLIANT</td><td>0.332845</td><td>DIGITIZED</td><td>10/7/2020</td><td>PRE-MAPMOD FUNDED</td><td>13020204</td><td>DIGITAL CONVERSION DETAILED</td><td>TIER 2</td></nul<>	AO	VALID	NVUE COMPLIANT	0.332845	DIGITIZED	10/7/2020	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION DETAILED	TIER 2
L	35001	350001	Unnamed Arroyo #1	<nul< td=""><td>AE</td><td>VALID</td><td>NVUE COMPLIANT</td><td>1.334112</td><td>COUNTY FIRM DATABASE</td><td>10/7/2020</td><td>PRE-MAPMOD FUNDED</td><td>13020204</td><td>DIGITAL CONVERSION DETAILED</td><td>TIER 3</td></nul<>	AE	VALID	NVUE COMPLIANT	1.334112	COUNTY FIRM DATABASE	10/7/2020	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION DETAILED	TIER 3
L	35001	350001	Unnamed	<nul< td=""><td>AO</td><td>VALID</td><td>NVUE COMPLIANT</td><td>0.163711</td><td>DIGITIZED</td><td>10/7/2020</td><td>PRE-MAPMOD FUNDED</td><td>13020204</td><td>DIGITAL CONVERSION DETAILED</td><td>TIER 2</td></nul<>	AO	VALID	NVUE COMPLIANT	0.163711	DIGITIZED	10/7/2020	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION DETAILED	TIER 2
L	35001	350001	Rio Puerco	<nu< td=""><td>AE</td><td>VALID</td><td>NVUE COMPLIANT</td><td>1.103314</td><td>COUNTY FIRM DATABASE</td><td>10/7/2020</td><td>PRE-MAPMOD FUNDED</td><td>13020204</td><td>DIGITAL CONVERSION DETAILED</td><td>TIER 3</td></nu<>	AE	VALID	NVUE COMPLIANT	1.103314	COUNTY FIRM DATABASE	10/7/2020	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION DETAILED	TIER 3
L	35001	350001	Rio Puerco	<nul< td=""><td>AE</td><td>VALID</td><td>NVUE COMPLIANT</td><td>0.171287</td><td>COUNTY FIRM DATABASE</td><td>10/7/2020</td><td>PRE-MAPMOD FUNDED</td><td>13020204</td><td>DIGITAL CONVERSION DETAILED</td><td>TIER 3</td></nul<>	AE	VALID	NVUE COMPLIANT	0.171287	COUNTY FIRM DATABASE	10/7/2020	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION DETAILED	TIER 3
L	35001	350001	Rio Puerco	<nul< td=""><td>AE</td><td>VALID</td><td>NVUE COMPLIANT</td><td>0.051856</td><td>COUNTY FIRM DATABASE</td><td>10/7/2020</td><td>PRE-MAPMOD FUNDED</td><td>13020204</td><td>DIGITAL CONVERSION DETAILED</td><td>TIER 3</td></nul<>	AE	VALID	NVUE COMPLIANT	0.051856	COUNTY FIRM DATABASE	10/7/2020	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION DETAILED	TIER 3
L	35043	350055	AMERICAN CREEK		A	UNVERIFIED	TO BE STUDIED	0.32151	COUNTY FIRM DATABASE	9/1/2016	PRE-MAPMOD FUNDED	13020202	DIGITAL CONVERSION APPROXIMATE	TIER 2
L	35043	350055	ARMUO DRAW		A	UNVERIFIED	TO BE STUDIED	3.171006	COUNTY FIRM DATABASE	9/1/2016	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION APPROXIMATE	TIER 2
L	35043	350055	ARROYO CHUUITIO		A	UNVERIFIED	TO BE STUDIED	0.477338	COUNTY FIRM DATABASE	9/1/2016	PRE-MAPMOD FUNDED	13020204	DIGITAL CONVERSION APPROXIMATE	TIER 2
L	35043	350055	ARROYO LA JARA		A	UNVERIFIED	TO BE STUDIED	3.451025	COUNTY FIRM DATABASE	9/1/2016	PRE-MAPMOD FUNDED	13020202	DIGITAL CONVERSION APPROXIMATE	TIER 2
				-		-	-			-	-			





## HOW DO I GET THE CNMS DATABASE ?

- You can obtain the latest CNMS database from the Region 6 CNMS Lead by request
- Send an email request either for a particular state or the entirety of Region 6.
- It is important to make sure you are utilizing the most recent CNMS database
  - CNMS database are released quarterly with static dates of 3/31, 6/30, 9/30, and 12/31
  - CNMS Fiscal Years Begin 10/1 FY21Q1 began on 10/1/2020 and ended 12/31/2020 (Most current database)
  - Due to nature of database any data updated in 'live' CNMS after the quarter end will not be reflected until the next rollup
  - CNMS database are released for distribution usually 10-14 days after the previous quarter ends





#### ← → C 🔒 floodmaps.fema.gov/ffx/



### Floodmaps File eXchange (FFX)

	Navigation
E	navigation

(Q) Search

🚺 Languages

mail	Register for an account
assword	Forgot Password?

### CNMS DATABASE DELIVERY

- After your request, the CNMS Lead will send a FEMA FFX link for you to download the most recent database
- You have 7 days from receipt of the link to download the data

### [EXTERNAL] Floodmaps File eXchange (FFX): CNMS\_R6\_FY21Q1\_20201231

DO-NOT-REPLY@riskmapcds.com To OJohnson, Michael (Austin)

← Reply	🏀 Reply All	→ Forward	•••
		Sun 3/7/2021 2	:23 PM

A file has been uploaded to the Floodmaps File eXchange (FFX) site for you by <u>michael.johnson@aecom.com</u>. To download, select the link below. You have 7 days to download the file before it's deleted from the server. NOTE: .ZZZ files must have their extensions changed to .ZIP, and .z must be changed to .7z before opening. Filenames with the character # will have it removed before opening.

Select this link to download the file.

If the above link does not work, go to https://floodmaps.fema.gov/ffx/download.php and enter the following filename:

#### 56302\_CNMS\_Region\_6\_20201231.gdb.zzz

Message from the user: This is the most recent CNMS database for Region 6. It has a static date of 12/31/2020. Any updates which have occurred after this date will not be reflected.

## DETERMINING NVUE MILEAGES FROM CNMS

- The CNMS database contains feature classes necessary to gather NVUE Mileages for the NVUE initiated table
  - The S\_Studies\_Ln and S\_Unmapped\_Ln feature classes contain the mileages needed
  - Once the CNMS database has been downloaded it can be opened in GIS and the "CNMS Inventory" feature dataset expanded to how the following:







## **NVUE INITIATED TABLE**

- Mileage totals for the NVUE table will come directly from S\_Studies\_Ln and S\_Unmapped\_Ln feature classes in the "MILES" column
- Select the reaches for each Zone listed in the table in your project area, and then utilize statistics to gather the sum of miles for each selection based on the MILES column
- Multiple selections will be required based on Valid / Unknown / Unverified status





## PHASE 0 BLE NVUE MILEAGE EXAMPLE

- The example in this training is specific to a HUC8 wide (3 HUC8s total) Phase 0 BLE project
- HUC8 wide Phase 0 BLEs are assumed to initiate all miles within a HUC or HUCs
- Projects will vary so selection of your project specific reaches may be necessary and can be performed through definition queries on the data stored within the CNMS database
- In this example I take the overall total of Zone A/AE Miles and subtract the Valid miles of each to determine Unknown / Unverified totals. This limits the number of selections and calculations required







### **CNMS DATA LOAD**

- Pull the S\_Studies\_Ln and S\_Unmapped\_Ln feature classes into GIS
- It is helpful to include other reference datasets to help you such as:
  - HUC 8 Boundaries (This will help you gather HUC8 Codes and give reference to make sure you have the correct information with Phase 0)
  - County Boundaries
  - NFHL data (this is important for gather Zone AE with Floodway mileages)



### CNMS DATA DEFINITION QUERY

- Once the CNMS feature classes are loaded you will need to perform a definition query for the area or HUCs that you need mileages from on both S\_Studies\_Ln and S\_Unmapped\_Ln
- A definition query will leave only the reaches you specify. It can be performed by right clicking the feature classes in GIS, and going to 'Properties' and then the "Definition Query" tab. You can utilize the "Query Builder..." to use an SQL calculator for building your query.
- In this training example a definition query for 3 HUC8s where miles in those specific HUCs are needed
- The "HUC8\_KEY" field in the CNMS feature classes is utilized as the basis of what to search for. This stores the HUC code each reach lies within. This can also be done by State, County FIPS, and more.

## **CNMS DEFINITION QUERY OUTCOME**

- After entering the definition query for the 3 HUC8s in both S\_Studies\_Ln and S\_Unmapped\_Ln where mileage is to be gathered only the reaches within the HUCs queried will remain for both feature classes
- Your project may require more or less of a definition query to select only the reaches you need









Zone AE w/FW

### **NVUE MILEAGE CALCULATION – NOT MAPPED**

- Open the S\_Unmapped\_Ln feature class attribute table by right clicking and selecting "Open Attribute Table"
- Once the table opens locate the "MILES" column, right click the heading and select "STATISTICS"
- A window will open showing various statistics about the field selected in this case "MILES"
- The "SUM" row will give you a total count of all miles in your 3 HUCs. This number rounded to the tenths place will be placed in your NVUE table under the 'Valid' column under "At Completion (miles)" for Not Mapped. Be sure that no reaches are selected when checking the SUM. Any selections will only give the SUM of the selected reaches
- This total is placed in the At Completion section since any miles which are currently unmapped / not mapped are assumed to be Valid once the Phase 0 BLE project is complete. Sometimes referred to as "NVUE New"

Table	
□ -   鼎 -   晶 函 집 @ ×	
OBJECTID <sup>™</sup> REACH_ID <sup>™</sup> STOD <sup>™</sup> ID <sup>™</sup> ID <sup>™</sup> CASE CO_FIPS CID <sup>™</sup> INTE_INW VITE_INW VITE_INV VITE_INV VITE_INW VITE_INV V	
5503 350430100067 <null> <null> 35043 350455 ARMUO DRAW A</null></null>	
Select by Attributes RROYO CHUUTIO A	
RUVO LA JARA A	
ANON CHAMISA LOSA A	
Method : Create a new selection V DLLER DRAW A	
OBJECTID A JARA CREEK A	
REACH_ID TO DE LAS PALOMAS A	
STODY_ID RROYO CHUULLITA A	
CO FIPS	
NROWN A	
NKNOWN A	
> >= And NKNOWN A	
RROYO SAN JOSE A	
ACMIENTO CREEK A	
% () Not TO LECHE A	
REVOCINUULA A	
SELECT FORM DESC AND ONLY AND A NUMBER	
ELD ZONE = 19 Characteristics - State - AN PABLO CANYON A	
NKNOWN A	
NKNOWN A	
CHOOL SECTION CANYON A	
LEPHONE CANYON A	
Clear Venfy Help Load Save DRSE CANYON A	
Bit         Field           B640         3504301001           B641         3504301001           Statistics:         Count:           Count:         472           Minimum:         0.036602           Maximum:         79.306639           Sum:         1326.062062           Mean:         2.809454           Standard Deviation:         692           Nulls:         0           0.0         11.1           22.2         33.3           44.4         55.5           66.5         77.6	
UE initiation Study Type Effective (miles) At Completion (miles)	Delta (miles)
Valid Unk/Un Valid Unk/Unv Va	lid Unk/Um
t Mapped 4735.1	
ne A 1326.1	
ne AE	
ne AE w/FW	

### NVUE MILEAGE CALCULATION – ZONE A

- Open the S\_Studies\_Ln feature class attribute table
- Click the table options button in the upper left of the table and click "Select by attributes"
- Enter FLD\_ZONE = 'A' in the bottom box and hit apply. This selects all Zone A miles in your queried area. Verify this is true.
- Right click the "MILES" column and then statistics as you did during the Not mapped set.
- Take the SUM and round to the tenths then and place the total under At Completion (miles) "Valid" column

## NVUE MILEAGE- ZONE A - VALID

- Next you will calculate the Zone A Miles which are currently "VALID" based on the "VALIDATION\_STATUS" field in S\_Studies\_Ln
- Open "Select by attributes" under table options
- Append to the previous calculation for Zone A by clicking the "AND" button and then in the top box scrolling to VALIDATION\_STATUS and double clicking to add it to the bottom box. Then click "Get Unique Values" once values populate in the middle field then hit the '=' button and finally double click on "VALID" in the middle box to select it and add to the formula
- The bottom box should have the following entered: FLD\_ZONE = 'A' AND VALIDATION\_STATUS = 'VALID' Click Apply





#### Table 🗐 - | 📴 - | 🖳 👧 🖸 🐢 🗙 | 🗞 🚳 🖉 🗙 NM\_S\_Studies\_Ln FLD\_ZONE VALIDATION\_STATUS STATUS\_TYPE STATUS DATE MILES SOURCE VALID NVUE COMPLIANT 0.07461 COUNTY FIRM DATABASE 12/23/2020 FISC VALID NVUE COMPLIANT 0.827554 COUNTY FIRM DATABASE 12/23/2020 FISC VALID FISC NVUE COMPLIANT 0.312329 COUNTY FIRM DATABASE 12/23/2020 VALID NVUE COMPLIANT FISC 7.291502 COUNTY FIRM DATABASE 12/23/2020 VALID FISC NVUE COMPLIANT 0.077358 COUNTY FIRM DATABASE 12/23/2020 х Selection Statistics of RSC6\_NM\_CNMS.GIS.S\_Studies\_Ln Field MILES **Frequency Distribution** Statistics: Count: 5 Minimum: 0.07461 Maximum: 7.291502 3 2 Mean: Standard De n: 2.800899 Nulls: 0 3.5 6.9 0.1

#### **NVUE** initiation

Study Type	ffective (miles)		At Complet	tion (miles)	Delta (miles)		
	١	id	Unk/Unv	Valid	Unk/Unv	Valid	Unk/Unv
Not Mapped				4735.1			
Zone A	8.6	<b>&gt;</b>		1326.1			
Zone AE							
Zone AE w/FW							

### NVUE MILEAGE CALCULATION - ZONE A VALID

- After hitting apply you should be left with only Zone A miles that have a "VALIDATION\_STATUS" of "VALID" Verify this is true
- Right click the "MILES" column and then statistics
- Take the SUM and round to the tenths then and place the total under Effective (miles) "Valid" column

## NVUE MILEAGE- ZONE A UNK/UNV

To obtain the Zone A Unk/Unv mile total for the Effective (miles) section subtract the sum of Zone A Valid Effective (miles) [8.6] from the sum of Zone A Valid At Completion (miles) [1326.1] to get <u>1317.5</u>

NVUE initiatio	n					
Study Type	Effectiv	ve (miles)	e (miles) At Completion (miles)		Delta (miles)	
	Valid	Unk/Unv	Valid		Valid	Unk/Unv
Not Mapped			4725	Γ		
Zone A	8.6	1317.5	1526.1			
Zone AE						
Zone AE w/FW						





## NVUE MILEAGE ZONE AE

- Zone AE mileage calculation is similar to gathering the information for Zone A however requires a few more steps for calculation of the miles with Floodway.
- To start you will calculate the total of all Zone AE miles in your project. You will calculate the overall total, Valid, and then Unk/Unv miles for all Zone AE.
- The totals for overall Zone AE will be used to calculate Zone AE with floodway and without.





🗄 •   🖶 •   🗣	a 🛐	9	<u>1</u>	:   Th Th @	×			
_Studies_Ln								
WTR_NM	WT	FLD_	ZONE	VALIDATION	STATI	JS_TYPE	MIL	ES
Grants Canyo		AE		VALID	BEING A	SSESSED	2.10	8466
Unnamed Arro	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE C</td><td>OMPLIANT</td><td>1.33</td><td>4112</td></nul<>	AE		VALID	NVUE C	OMPLIANT	1.33	4112
Rio Puerco	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE C</td><td>OMPLIANT</td><td>1.10</td><td>3314</td></nul<>	AE		VALID	NVUE C	OMPLIANT	1.10	3314
Rio Puerco	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE C</td><td>OMPLIANT</td><td>0.17</td><td>1287</td></nul<>	AE		VALID	NVUE C	OMPLIANT	0.17	1287
Rio Puerco	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE C</td><td>OMPLIANT</td><td>0.05</td><td>1856</td></nul<>	AE		VALID	NVUE C	OMPLIANT	0.05	1856
SAN ANTONIO		AE		UNVERIFIED	TO BE S	TUDIED	4.78	8217
JEMEZ RIVER		AE		UNVERIFIED	TO BE S	TUDIED	15.90	6224
Zuni Canyon		AE		UNVERIFIED	TO BE S	TUDIED	1.03	0947
Rio San Jose		AE		UNVERIFIED	TO BE S	TUDIED	7.91	8528
Select by Attrib	utes						×	
-								
Enter a WHERE	E clau	se to s	elect r	ecords in the ta	ble windo	w.		
Method :	reste	-	eelecti	ion			~	
	reale	anew	select	ion			¥	
OBJECTID							<u>^</u>	
REACH_ID								
STUDY_ID								
CASE_NO								
CO_FIPS							v 📃	
= <>	Lik	e						
> >=	An	d						
< <=	0	r						
_ % ()	N	ot						
			Get II	laisus Valuas	Co To:			
		_	del U		G0 10:			
SELECT FRO	M S_S	otudies	_Ln V	VHERE:				
FLD_ZONE = 1	AE'						$\sim$	
							$\sim$	
Clear	Ve	erify		Help	Load	Save.		
				_				
				Ap	ply	Close		

Selection statistics of 5_Studies_En	
Field	
MILES	$\sim$
Statistics:	
Count: 9 Minimum: 0.051856 Maximum: 15.906224 Sum: <u>84.412951</u> Mean: 3.823661 Standard Deviation: 4.894354 Nulls: 0	
<	>

the contract of contract of

### NVUE MILEAGE CALCULATION – TOTAL ZONE AE

- Open the S\_Studies\_Ln feature class attribute table
- Click the table options button in the upper left of the table and click "Select by attributes"
- Clear any Zone A queries that remain and enter FLD\_ZONE = 'AE' in the bottom box and hit apply. This selects all Zone AE miles in your queried area. Verify this is true
- Right click the "MILES" column and then statistics as you did for Not mapped and Zone A.
- Take the SUM and round to the tenths. Instead of entering this total in the table keep the numbers separate for further calculations once you determine AE with floodway miles. Total miles = <u>34.4</u>

10	DIE		_	_		_			
0	] -   뭡 -   Ŋ	a 🕅	M	⊕ ⊅		×			
5_	Studies_Ln								
	WTR_NM	WT	FLD	ZONE	VALIDATION	STATU	S_TYPE	MIL	ES
	Grants Canyo		AE		VALID	BEING AS	SESSED	2.10	8466
	Unnamed Arro	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE CO</td><td>MPLIANT</td><td>1.33</td><td>4112</td></nul<>	AE		VALID	NVUE CO	MPLIANT	1.33	4112
	Rio Puerco	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE CO</td><td>MPLIANT</td><td>1.10</td><td>3314</td></nul<>	AE		VALID	NVUE CO	MPLIANT	1.10	3314
	Rio Puerco	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE CO</td><td>MPLIANT</td><td>0.17</td><td>1287</td></nul<>	AE		VALID	NVUE CO	MPLIANT	0.17	1287
_	Rio Puerco	<nul< td=""><td>AE</td><td></td><td>VALID</td><td>NVUE CO</td><td>MPLIANT</td><td>0.05</td><td>1856</td></nul<>	AE		VALID	NVUE CO	MPLIANT	0.05	1856
5	Select by Attribu	utes						X	
	-								
	Enter a WHERE	claus	se to s	select n	ecords in the tal	ble window			
	Method : Cr	eate a	anew	selecti	on			$\sim$	
							_	77	
	OBJECTID						^	·	
	REACH_ID								
	STUDY_ID								
	CASE_NO								
	CO_FIPS						~	<u> </u>	
	= <>	Lik	e						
	> >=	An	d						
	< <=	0	r						
	_ % ()	No	ot						
	ls		[	Get U	nique Values	Go To:			
			ا tudiou	o Lo M					
	SELECT FROM	N 3_3	ID W		ION STATUS	0.011D		_	
	FLD_ZONE = 7	AE AN	ND VA	ALIDAT	ION_STATUS	= VALID		$^{\circ}$	
								- 11	
								- 11	
								~	
	Clear	Va	rifu,		Hole	and	Sauce	=1	
	Clear	ve	niy		neip L		Save		
					An	olv	Close		
L					ΛPI	PU	0.000	- 1	



# NVUE MILEAGE CALCULATION – TOTAL ZONE AE - VALID

- Similar to Zone A Valid calculations Enter FLD\_ZONE = 'AE' AND VALIDATION\_STATUS = 'VALID' in the bottom box and hit apply. This selects all Zone AE- VALID miles in your queried area. Verify this is true
- Right click the "MILES" column and then statistics.
- Take the SUM and round to the tenths. Instead of entering this total in the table keep the numbers separate as you did for Total AE miles; for further calculations once you determine AE with floodway miles. Total AE miles = 34.4 and Total AE Valid = 4.8

## NVUE MILEAGE- ZONE AE TOTAL UNK/UNV

To obtain the Unk/Unv mile total for total Zone AE miles subtract the Valid miles from the Total Zone AE miles as previously calculated: Total AE miles = 34.4 - Total AE Valid = 4.8

34.4 – 4.8 = 29.6 Total AE Unk/Unv

You will utilize these overall Zone AE mileage totals to determine Zone AE Valid and Unk/Unv by subtracting Zone AE miles that have floodway which you will determine last.





## NVUE MILEAGE - ZONE AE W/ FLOODWAY

- To determine Zone AE miles with floodway you will need to utilize the S\_Fld\_Haz\_Ar features class from NFHL and ensure you have proper coverage for your project area
- Load the S\_Fld\_Haz\_Ar for your project area in the same GIS session as you have been utilizing to calculate mileages from S\_Studies\_Ln and S\_Unmapped\_Ln.
- Place the following formula under the S\_Fld\_Haz\_Ar properties in the Definition Query Tab: FLD\_ZONE = 'AE' AND ZONE\_SUBTY = 'FLOODWAY'
- Click Apply to make sure the Definition Query occurs
- This will show only Zone AE with Floodway from S\_Fld\_Haz\_Ar









### NVUE MILEAGE CALCULATION – TOTAL ZONE AE W/ FLOODWAY

- CNMS does not store the floodway designation of Zone AE reaches so some manual mapping steps will be required to obtain Zone AE with floodway mileage.
- Be sure to clear any previous selections within S\_Studies\_Ln
- Since you placed a definition query on S\_Fld\_Haz\_Ar you may utilize the GIS "Select by Location" feature to select reaches from S\_Studies\_Ln that "have their centroid in the source layer feature" within S\_Fld\_Haz\_Ar. Hit Apply.
- You may also do a manual selection by simply panning your project area and selecting only Zone AE reaches inside floodway. This is also a good check to be sure that the 'select by location' tool did not select any errant reaches.

#### Table

#### 🗄 • | 🖶 • | 🖫 🚮 🖸 🟘 🗙 | 🗟 🖓 🖉 🗙

l	S_	S_Studies_Ln										
		WTR_NM	W	FLD_ZONE	VALIDATION_STATUS	STATUS_TYPE	MILES	SOURCE				
l		Rio San Jose	Γ	AE	UNVERIFIED	TO BE STUDIED	7.918528	COUNTY FIRM DATABAS				
I		Unnamed Arroyo #1	<	AE	VALID	NVUE COMPLIANT	1.334112	COUNTY FIRM DATABAS				
I		Rio Puerco	<	AE	VALID	NVUE COMPLIANT	1.103314	COUNTY FIRM DATABAS				
I		Rio Puerco	<	AE	VALID	NVUE COMPLIANT	0.171287	COUNTY FIRM DATABAS				
I		Rio Puerco	<	AE	VALID	NVUE COMPLIANT	0.051856	COUNTY FIRM DATABAS				
I		Grants Canyon		AE	VALID	NVUE COMPLIANT	2.108466	COUNTY FIRM DATABAS				



#### **NVUE** initiation

Study Type	Effectiv	e (mil <mark>)</mark>		At Comple	tion (miles)	Delta	(miles)
	Valid	Unk/	Y	Valid	Unk/Unv	Valid	Unk/Unv
Not Mapped				4735.1			
Zone A	8.6	1317.5		1326.1			
Zone AE			Σ	7			
Zone AE w/FW				12.7			

### NVUE MILEAGE CALCULATION – ZONE AE W/ FLOODWAY

- After hitting apply you should be left with only Zone AE reaches that have a floodway. (or if doing a manual select you should have only Zone AE within floodway). Verify this is true
- Open the S\_Studies\_Ln Attribute table, verify only Zone AE reaches are selected and Right click the "MILES" column and then statistics
- Take the SUM and round to the tenths then and place the total under At Completion (miles) "Valid" column for Zone AE w/FW
- Do not clear the selection

	WTR_NM	W	FLD_ZONE	VALIDATION_STATU	IS S	TATUS_TYPE	MILES	
Rio	San Jose		AE	UNVERIFIED	TO	BE STUDIED	7.918528	
Die	Duoroo	Č	AE		NV	UE COMPLIANT	1.03314	
*	Flash			.ID	NV	UE COMPLIANT	0.171287	
Ð	Zoom To			.ID	NV	UE COMPLIANT	0.051856	
gan	Pan To			.ID	NV	UE COMPLIANT	2.108466	
	Go To Page							
198 7	lalantific							Coloritorio Charlie
	identify							Selection Statis
Y	Unselect				-10			
U	Open Attachme	ent	t Manager			Field		
<b>-</b>	Zoom To Select	teo	ł			rieiu		
8	Clear Selected					MILES		×
	Conv Selected					<b></b>		
	Copy Selected					Statistics:		
×	Delete Selected					Count:	5	
₽ <b>1</b>	Zoom To Highl	ig	hted			Minimum:	0.051856	
	Unselect Highli	gh	ted			Maximum	2.108466	
Tt.	Reselect Highlid	gh	ted			Sum:	4.769035	
×	Delete Hig	ele	ect Highlight	ed		Mean:	9.953807	
-	D					Stand	Deviation: 0.	764993
	Ke	sel	ect nignlight	ed reatures.		Nul	0	
		-						

### **NVUE** initiation

Study Type	Effectiv	e (n <b>7 -</b> 3)	At Complet	tion (miles)	Delta	(miles)
	Valid	.ik/Unv	Valid	Unk/Unv	Valid	Unk/Unv
Not Mapped			4735.1			
Zone A	8.6	1317.5	1326.1			
Zone AE						
Zone AE w/FW	4.8		12.7			

### NVUE MILEAGE CALCULATION – ZONE AE W/ FLOODWAY - VALID

- To obtain Valid Miles from the previous selection, click the "show selected records" button at the bottom of the attribute table. This should show only the selected reaches. Right click and sort the VALIDATION\_STATUS column as desired This should place all the VALID reaches toward the top or bottom of the selected list. Highlight the VALID reaches by selecting them manually, right click any highlighted row and then select "Reselect Highlighted"
- This will select only the VALID reaches with floodway which you can then right click MILES and select statistics to get the sum of miles.
- Take the SUM and round to the tenths then and place the total under Effective (miles) "Valid" column for Zone AE w/FW

## NVUE MILEAGE- ZONE AE W/ FW UNK/UNV

NVIIE initiation

To obtain the Unk/Unv mile total for the Effective (miles) section subtract the sum of Valid Effective (miles) [4.8] from the sum of Valid At Completion (miles) [12.7] to get 7.9

Study Type	Effective (miles)		Completion (miles)		Delta (miles)		
	Valid	Unk/Unv		Valid	Unk/Unv	Valid	Unk/Unv
Not Mapped			473	35.1			
Zone A	8.6	1317.5	132	26.1			
Zone AE							
Zone AE w/FW	4.8	7.9	12.	7			





## NVUE MILEAGE- ZONE AE TOTALS

- To now obtain the Zone AE miles for reaches which do not have floodway we will utilize the Total AE mileages we calculated earlier and subtract the miles of the Zone AE with floodway.
- The total AE mileages calculated earlier are:
  - 4.8 Effective (miles) Valid
  - 29.6 Effective (miles) Unk/Unv
  - 34.4 At Completion (miles) Valid
- You will subtract Zone AE miles that have floodway from these overall Zone AE mileage totals to fill in the Zone AE miles without floodway in the table.





- The total AE mileages calculated earlier are:
  - 4.8 Effective (miles) Valid
  - 29.6 Effective (miles) Unk/Unv
  - 34.4 At Completion (miles) Valid

### **NVUE** initiation

Study Type	Effective (miles)		At Complet	tion (miles)	Delta (miles)		
	Valid Unk/Unv		Valid	Unk/Unv	Valid	Unk/Unv	
Not Mapped			4735.1				
Zone A	8.6	1317.5	1326.1				
Zone AE	0	21.7	21.7				
Zone AE w/FW	4.8	7.9	12.7				

### NVUE MILEAGE- ZONE AE

- For Zone AE Effective(miles) Valid: Subtract AE Miles
   w/ FW Valid [4.8] from Total Zone AE Valid Miles
   [4.8] to = 0 Zone AE Effective (miles) Valid
- For Zone AE Effective (miles) Unk/Unv: Subtract AE Miles w/ FW Unk/Unv [7.9] from Total Zone AE Unk/Unv Miles [29.6] to = 21.7 Zone Ae Effective (miles) Unk/ Unv
- For Zone AE At Completion(miles) Valid: Subtract AE w/ FW At Completion (miles) Valid [12.7] from Total Zone AE Miles [34.4] to = 21.7 Zone AE At Completion (miles) Valid

## NVUE MILEAGE- DELTA MILES

- Finally, to obtain the Delta (miles) total for Study Types except Not Mapped you will take the Unk/Unv Mileages and place them into the Valid Delta (miles) field. For Not Mapped you will take the value placed in the At Completion (miles) Valid field.
- In this example once a Phase 0 BLE project is completed it is expected that all Unk/Unv and Not Mapped Miles will become Valid, so the Delta miles represent the new Valid mileages your project will be adding. Already valid mileages will remain valid. Your project may vary, and calculations should be adjusted accordingly.

Study Type	Effective (miles)		At Complet	tion (miles)	Delta (miles)		
	Valid	Unk/Unv	Valid	Unk/Unv	Valid	Unk/Unv	
Not Mapped			4735.1		+4735.1		
Zone A	8.6	1317.5	1326.1		+1317.5		
Zone AE	0	21.7	21.7		+21.7		
Zone AE w/FW	4.8	7.9	12.7		+7.9		

### NVUE initiation





#### **NVUE** initiation

Study Type	Effective (miles)		At Complet	tion (miles)	Delta (miles)	
	Valid Unk/Unv		Valid	Unk/Unv	Valid	Unk/Unv
Not Mapped			4735.1		+4735.1	
Zone A	8.6	1317.5	1326.1		+1317.5	
Zone AE	0	21.7	21.7		+21.7	
Zone AE w/FW	4.8 7.9		12.7		+7.9	

### WRAP UP

- Effective (Miles) column should contain what mileages currently exist in CNMS as Valid or Unknown / Unverified for each designated Zone type
- At Completion (Miles) will be the totals for your project which are assumed to be Valid or Unknown / Unverified for each Zone type. It is assumed new studies will be Valid at completion
- Delta (Miles) will always be the gain in Valid miles once a project is complete. Already Valid miles are not included in this total since they are already Valid

Diane Howe Risk MAP Lead <u>Diane.Howe@fema.dhs.gov</u>

Michael Johnson CNMS Lead <u>Michael.Johnson@aecom.com</u> 2

### Questions?