

Action Items, Goals and Recommendations

Ref #	Actions	Watershed Specific Actions	FMP Goals								Chapter - Recommendation	Priority	Cost Range	Funding Source	Responsible Party	Deadline
			1	2	3	4	5	6	7	8						
1.1 Implement Existing Preventive Activities																
1.1.a	Participate in the National Flood Insurance Program Community Rating System	Countywide activity**	X	X	X	X	X	X	X	X	X	8, AC	High	District Budget	RFCD	2020
1.1.b	Enforce Pima County Code including Floodplain Management Ordinance, Comprehensive Plan, Zoning and other standards and policies	Countywide activity	X	X	X	X	X	X			8, AC	\$				
1.1.c	Operate, inspect and maintain Flood Control lands and facilities	Countywide activity	X	X			X	X			8, AC	\$\$\$				
		Bellbrook channel repairs (CF)					X	X			8, AC	\$\$				
		Mesquite Ranch Wash sediment removal (Pantano)					X	X			8, AC	\$\$				
		Mitigate Los Reales erosion (SCRM)					X	X			8, AC	\$\$				
		Mitigate Sonoran Ranch erosion (Brawley)					X	X			8, AC	\$\$				
		Monitor and maintain bank protection (SCRL)					X	X			8, AC	\$\$				
		Monitor and remove vegetation (SCRM)					X	X			8, AC	\$\$				
		Palo Verde Rd channel grading (Pantano)					X	X			8, AC	\$\$				
		Repair Continental Ranch bank protection erosion (SCRL)					X	X			8, AC	\$\$\$				
		Repair Iberia sediment and sink holes (BW)					X	X			8, AC	\$\$				
		Repair Michael Perry Park bank protection (Pantano)					X	X			8, AC	\$\$				
		Repair SCR Old West Branch Bank protection erosion at Silverlake (SCRM)					X	X			8, AC	\$\$				
		Minor sediment control activities					X	X	X		8, AC	\$				
		Create Drainage System maintenance plans including vegetation, sediment, and debris (SCRL, SCRM, Rillito, Pantano, CDO)									8, AC					
		Create open space management plans and consider location specific vegetation maintenance practices (AV, CC, CDO, SCRM, SCRU, SCRL, SPR, TVC)	X	X						X	8, AC	\$				
		Install controlled access (countywide)	X	X		X					8, AC	\$				
1.1.d	Develop and maintain staff expertise	Countywide activity								X	8, AC	\$				
1.1.e	Update spatial information periodically	Countywide activity	X		X					X	8, AC	\$\$				
1.1.f	Participate in interagency reviews including State, Federal and Local projects	Countywide & regional activity	X					X		X	8, AC	\$				
1.1.g	Participate in regional watershed planning activities to promote uniform standards	Countywide activity								X	8, AC	\$				
		Create Intergovernmental Agreements with other jurisdictions (countywide)								X	8, AC	\$				
		Coordinate with the City of Tucson for the Santa Cruz River Heritage groundwater recharge project and One Water efforts (SCRM)		X						X	8, AC	\$				

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1.2	New Preventive Activities															
1.2.a	Identify diversions, alluvial fans, debris flows, local floodways and other geomorphic hazard areas	Countywide activity	X	X	X					X	4, 5, App. C	L	\$	District Budget	RFCD	2020
		Identify areas of shallow groundwater (ACW, Sabino, TVC)	X	X							4, 5, App. C	L	\$			2025
		Assess unstable geomorphology (Pantano)								X	4, 5, App. C	L	\$			2020
		Establish alluvial fan flow corridors (TF)			X					X	4, 5, App. C	M	\$\$			2022
		Expand riparian habitat maps to excluded watercourses (TM)	X	X							4, 5, App. C	L	\$			2025
		Identify debris flows (ACW, CF, Sabino)								X	4, 5, App. C	L	\$			2020
		Identify agriculture diversions (SCRU, SCRM, SCRL, Ajo, AV, LMW)							X		5	M	\$			2020
		Identify and map canyon wash floodways (CDO, SCRM, TM, CF)			X	X				X	4, 5, App. C	M	\$\$			2020
		Identify and monitor erosion on tributaries to the Santa Cruz River (LMW, SCRM, SCRU, TM)						X		X	4, 5, App. C	H	\$			2020
		Monitor sand and gravel operations (Pantano, SCRM, SCRL)					X				5	M	\$			2020
		Remap the Carmack Wash in the distributary flow area (CDO)			X						4, 5, App. C	M	\$			2020
		Work to address issue of sediment placement during road maintenance activities (AV, Brawley, BW, LMW, TF)				X		X		X	5	L	\$			2020
1.2.b	Improve floodplain hazard mapping (e.g. New delineations, revise out of date mapping)	Countywide activity	X		X						4, 5, App. C	L	\$			2020
		Complete RiskMap & SFHA (SCRU)			X						4, 5, App. C	H	\$			2023
		Conduct a detailed floodplain analysis of Pima County Fair Grounds (LMW)			X						4, 5, App. C	H	\$			2021
		Conduct detailed mapping of approximate FEMA Special Flood Hazard Areas (Brawley, Altar, BW, TF, TM, SCRM)			X						4, 5, App. C	M	\$\$			2023
		Conduct floodplain modeling for City of South Tucson (SCRM)			X					X	4, 5, App. C	H	\$			2021
		Develop floodplain maps for Rincon Foothills Unnamed Wash #s 8, 9 and 10 (TVC)			X						4, 5, App. C	L	\$			2025
		Provide detailed mapping for the area between the Herman's Road and Valencia Road (BW)			X						4, 5, App. C	M	\$			2021
		Remap floodplains to confluence with the Tanque Verde Creek (Rillito)			X						4, 5, App. C	M	\$			2025
		Remap Twenty-Seven Wash floodplain/floodway (CDO)			X						4, 5, App. C	M	\$			2023
		Remap floodplains for Alamo Wash in the City of Tucson (Rillito)			X					X	4, 5, App. C	M	\$			2021
		Remap floodplains for Bronx Wash in the City of Tucson (SCRM)			X					X	4, 5, App. C	M	\$			2022
		Remap floodplains for Christmas Wash in the City of Tucson (Rillito)			X					X	4, 5, App. C	M	\$			2020
		Remap floodplains for Navajo/Wilson Washes in the City of Tucson (SCRM)			X					X	4, 5, App. C	M	\$	2022		
		Remap floodplains for Silvercroft Wash in the City of Tucson (SCRM)			X					X	4, 5, App. C	M	\$	2024		
		Remap floodplains for the Roller Coaster Wash (ACW)			X						4, 5, App. C	M	\$	2021		
		Remap floodplains for the Wyoming and Dakota Washes (SCRM, TM)			X						4, 5, App. C	M	\$	2021		
		Update Black Wash Administrative Floodway (BW)			X						4, 5, App. C	H	\$	2024		
		Update floodplain maps for Sopori Wash (SW)			X						4, 5, App. C	M	\$	2022		
		Identification of flood risks at Sopori and SCR Confluence (SCRU, Sopori)			X					X	4, 5, App. C	H	\$	2022		

1.2.c	Refine local approximate sheet flood maps and identify flow corridors	Countywide activity	X			X	X	X	X			4	L	\$\$	Annual Budget	RFCD	2020		
		Conduct detailed mapping for remaining local approximate sheetflow floodplains (ACW, BW, Brawley, TF)	X		X							8, AC	M	\$\$					2021
		Conduct detailed mapping for Sierrita Mountain Road area (Brawley)	X		X		X					8, AC	M	\$					2020
		Remap Pistol Hill sheet flow floodplains (Pantano)	X		X		X					8, AC	M	\$					2020
1.2.d	Update the Critical Basin map	Countywide activity					X	X		X		8, AC	L	\$					2025
		Identify undersized infrastructure (Urban Sub-Watersheds, Rillito, CF, CDO)				X	X			X		8, AC	H	\$					2025
		Identify existing development at risk from flooding (Urban Sub-Watersheds, Rillito, CF, CDO)			X	X						8, AC	H	\$					2022
1.2.e	Participate in monitoring groundwater change with other responsible parties	Countywide activity		X						X		8, AC	L	\$					2020
		Conduct groundwater depth & quality monitoring (CC, AVG, SS, Sopori)		X						X		8, AC	L	\$				PAG, DEQ	2020
		Operate Marana High Plains groundwater recharge project (SCRL)		X						X	X	8, AC	H	\$\$				RFCD	2020
1.2.f	Develop plan to provide controlled access to District lands	Countywide activity	X	X		X						8, AC	L	\$					2020
1.2.g	Develop standards for site layout of large scale development in sheet flood areas	Countywide activity			X				X			8, AC	L	\$				RFCD, BOR, UA	2021
1.2.h	Develop methods to identify future climate scenarios and upper watershed conditions (e.g. rain on snow, post catastrophic fire, debris flows)	Countywide activity								X		5	L	\$					2022
1.2.i	Develop criteria for site design and infrastructure at major watercourse confluence areas	Countywide activity (SCRM, TM, CF, TF)	X			X	X			X		8, AC	L	\$				RFCD	2022
1.2.j	Develop criteria to minimize encroachments in regulatory floodplains, erosion hazard areas and riparian habitat during entitlement and permitting processes	Countywide activity	X	X	X	X	X	X	X			8, AC	L	\$			2021		

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2.1 Implement Existing Property Protection Actions																			
2.1.a	Provide outreach and assistance on mitigation strategies to the community including obtaining flood insurance	Countywide activity			X		X					8, AC	High	\$	District Budget & private funds	RFCD, developers, & outreach partners	2020		
2.1.b	Implement Floodprone Land Acquisition Program	Countywide activity	X	X			X				8, AC	2020							
2.1.c	Identify and address maintenance needs of private infrastructure during the entitlement and permitting processes	Countywide activity			X		X				8, AC	2020							
2.2 New Property Protection Activities																			
2.2.a	Develop standards to address climate change concerns (e.g. Increase design flood elevation and channel freeboard requirements, consider fully vegetated and compound channels in design)	Countywide activity								X		8, AC	H	District Budget	RFCD & neighborhood stakeholders	RFCD, FEMA, & UA	2022		
2.2.b	Identify areas of flooding problems related to existing development and identify property protection funding or technical assistance	Countywide activity			X	X	X					8, AC	H			\$	ADEMA	2024	
		Provide assistance to property owners related to bank reclamation (ACW, Sabino, TVC, TM)				X		X				8, AC	L			\$		2021	
		Conduct drainage infrastructure mapping for City of South Tucson					X			X		8, AC	H			\$		2020	
		Construct drainage improvements in the El Vado Watershed in the City of Tucson (SCRM)					X	X		X		8, AC	M			\$\$		2022	
		Construct drainage improvements in the Ruthrauff/Gardner Lane area (SCRM)					X	X				8, AC	M			\$\$		2024	
		Construct El Rio Golf Course drainage improvements (SCRM)					X	X				8, AC	M			\$\$		2020	
		Evaluate cumulative impacts of lot-splits and identify mitigation (BW, TM)			X							8, AC	L			\$		2024	
		Work with responsible parties to address flooded roads (CDO, LMW, Pantano, Rillito, Sabino, TVC, TF, TM)						X	X	X		8, AC	M			\$\$		2020	
2.2.c	Conduct voluntary floodprone land acquisition program outreach to areas impacted by flooding	Countywide activity as needed	X	X			X					5.1.1	L			\$		2021	
		Acquire property rights for effective management (Pantano)	X	X			X					8, AC	M			\$\$		2020	
		Target floodways and flow corridor areas (BW, Brawley, SCRM, SPR)	X	X	X	X	X					8, AC	H			\$		2021	
2.2.d	Promote use of Green Infrastructure/Low Impact Development techniques during redevelopment	Countywide activity	X		X					X		8, AC	L			\$		2020	
2.2.e	Expand outreach to Homeowners and Neighborhood Associations about the need for and approaches to maintaining private infrastructure	Countywide activity			X		X					8, AC	L			\$		RFCD & HOAs	2020

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3.1 Existing Natural Resource Protection Activities																	
3.1.a	Enforce the Riparian Habitat Mitigation Standards during permitting and entitlement processes	Countywide activity	X	X			X		X		5		District Budget	RFCD & DSD	2020		
3.1.b	Use open space management plans for monitoring, maintaining and protecting the Drainage System and Preserves in collaboration with partners	Countywide activity	X	X			X		X	X	5			NRPR	2020		
		Monitor base flows (CC, SCRL, SCRM)									8, AC			RFCD, PAG & citizen science partners	2020		
3.1.c	Identify, acquire, preserve, restore and enhance the Drainage System and Preserves including riparian habitat and wildlife corridor areas	Countywide activity	X	X					X		4, 5, 7, App C			PCRFC	2020		
		Support work for the Altar Valley Watershed Management Grant (AV)	X	X					X	X				Grants	NRPR	2020	
3.1.d	Invasive species management	Countywide activity	X	X		X			X	X	8, AC		Annual budget, volunteer network & grants	NRPR & NWFD	2020		
3.1.e	Coordinate with water owners and entities on ground water recharge and effluent uses	Countywide activity		X					X	X	8, AC		District Budget	RFCD, COT, & WWRD	2020		
3.2 New Natural Resource Protection Activities																	
3.2.a	Spatially rectify riparian classification maps	Countywide activity	X	X							4, 5, 7, App C	L		RFCD and developers	2020		
3.2.b	Refine, expand and implement District natural resource management plans including the Multi-Species Conservation Plan	Countywide activity	X	X							5	L		NRPR	2023		
		Complete Cienega Corridor Management Plan (CC)	X	X					X		App C	M		NRPR	2021		
3.2.c	Establish best management practices for and identify utility operators in the Drainage System	Countywide activity	X	X			X	X		X	5	L		RFCD, UCC, providers	2024		

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4.1 Implement Existing Emergency Services Activities																	
4.1.a	Operate the flood recognition and warning system	Countywide activity			X	X		X	X	X	8, AC	High	\$\$	Departmental Budgets	PCRFCD, USGS, & NWS	2020	
4.1.b	Coordinate with other Departments in development of Hazard Mitigation Plans, Emergency Operations Plan Flood Annexes, Flood Response Plans and Grant Applications	Countywide activity			X	X	X	X	X	4	\$		RfCD & OEM				
4.1.c	Coordinate with the Office of Emergency Management and sponsor annual events (e.g. exercises, drills and training)	Countywide activity				X			X	8, AC	\$						
4.1.d	Identify critical facilities exposed to or isolated by flooding and evaluate level of risk	Countywide activity				X	X	X	X	8, AC	\$						
4.2 New Emergency Services Activities																	
4.2.a	Develop a plan to enhance public safety where roads flood and/or create isolated areas (e.g. reporting, warning, signage, permanent closures, all-weather crossings, automated temporary closures)	Countywide activity				X		X	X	X	4	H	\$	Departmental Budgets	RfCD, DOT, & OEM	2022	
4.2.b	Adopt an All-Hazards Planning Strategy per the Approved Hazard Mitigation Plan (e.g. health, catastrophic fire, extreme weather)	Countywide activity				X		X	X	X	4	M	\$		RfCD	2020	
4.2.c	Expand and update the District's flood threat recognition and integrate it with warning system	Countywide activity				X		X	X	X	4	H	\$		RfCD, OEM & jurisdictions		2020
		Coordinate with other jurisdictions including the Tohono O'odham Nation on flood warning needs (RS, SC, SR, Tule, SCRU)				X			X		4	L	\$				2025
4.2.d	Expand inundation mapping coverage for flood warning for use in flood warning system	Countywide activity				X		X	X	X	4	M	\$				2020
		Create inundation mapping for Black Wash and Gibson Arroyo (BW, Ajo)				X			X		4	H	\$				2023
4.2.e	Increase pre-event technical assistance to the Office of Emergency Management and first responders including identifying all weather emergency response access routes	Countywide activity				X		X	X	X	4	H	\$				2022
		Utilize new streamflow gages to warn emergency services of road closures on Silverbell Road (TM)				X			X		App C	L	\$\$				2023
4.2.f	Provide outreach and technical assistance to critical facility operators regarding development of flood response plans	Countywide activity as needed				X	X	X	X	X	4, 5.3.1	H	\$			2024	

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5.1 Implement Existing Capital Program for Structural Projects																	
5.1.a	Utilize property tax revenues to fund drainage improvements to protect existing development and seek additional funds when available	Countywide activity					X	X		X	8, AC		\$\$\$	District Budget	RFCD & jurisdictions	2020	
		Address erosion advancing towards Soldier Trail (ACW)					X	X			8, AC		\$\$			2021	
		Construct bank protection for El Rio Preserve (SCRL)					X	X			8, AC		\$\$\$			2020	
		Construct bank protection on the north bank of Canada del Oro Wash between I-10 and Thornydale (CDO)					X	X			8, AC		\$\$\$			2021	
		Construct drainage improvements within Christmas Wash and other urban watersheds (SCRM, Rillito)					X	X			8, AC		\$\$\$			2020	
		Construct Highlands Wash drainage improvements (CDO)					X	X			8, AC		\$\$\$			2023	
		Construct Sells Wash bank protection (SR)					X	X			8, AC		\$\$			2025	
		Coordinate with the City of Tucson stakeholders on planned drainage improvements along Silverbell Road (SCRM, TM)					X	X			8, AC		\$\$			2020	
		Remove un-necessary diversions (BW, Brawley)					X	X			8, AC		\$\$			2025	
		Stabilize the Pantano Wash and tributaries(Pantano)					X	X			8, AC		\$\$\$			2025	
		Construct Wentworth Wash Channel (TVC)					X	X			8, AC		\$\$			2024	
		Mitigate erosion at Hacienda del Sol confluence (Rillito)					X	X			8, AC		\$\$			2020	
		Ruthrauff area drainage improvements (SCRM)					X	X			8, AC		\$\$\$			2025	
5.1.b	Complete new river and basin studies to identify needs and develop alternatives	Countywide activity	X	X	X		X	X	X	X	8, AC		\$\$			2020	
		Coordinate with the Town of Marana on implementation of their Marana Drainage Master Plan (SCRL)			X		X	X		X	8, AC		\$\$	2020			
		Create Basin Management Plans (BW, AV, SCRU)			X		X	X		X	8, AC		\$\$	2023			
		Develop Santa Cruz River Management Plan (SCRL, SCRM, SCRU)			X		X	X		X	8, AC		\$\$	2020			
5.1.c	Develop a 10-year plan for prioritizing the design and construction of capital projects	Countywide activity			X		X	X		X	8, AC		\$\$	2020			
5.1.d	Design flood control improvements using a multi-function approach including infiltration, water quality, recreation and habitat enhancement	Countywide activity					X	X		X	8, AC		\$\$	2020			
5.2 New Structural Project Activities																	
5.2.a	Identify potential locations for Green Infrastructure/Low Impact Development projects	Countywide activity	X	X						X	X	8, AC	L	\$	District Budget	RFCD	2020
		Coordinate with the Altar Valley Conservation Alliance to implement watershed restoration (AV)	X	X						X		8, AC	H	\$			2020
		Loop and Trail Enhancements (CDO, Rillito, Pantano, SCRL, SCRM, SCRU)	X							X		8, AC	L	\$\$			2020
		Coordinate with City of Tucson on Proposition 407 projects (Rillito, Pantano, SCRM)	X							X		8, AC	H	\$			2020
5.2.b	Apply Green Infrastructure/Low Impact Development design principles in District projects	Countywide activity	X	X						X		8, AC	L	\$			2020
5.2.c	Prohibit the use of levees and floodwalls except as necessary to protect existing development	Countywide activity	X				X					8, AC	H	\$			2020
5.2.d	Consider Future Conditions including climate and land use changes in design	Countywide activity					X	X	X			8, AC	H	\$			2023
5.2.e	Develop and implement alternative construction techniques and site designs to protect from flood hazards by mimicking natural conditions (e.g. compound channels, distributed retention)	Countywide activity	X	X			X		X			8, AC	H	\$\$\$			2023
		Develop and implement an erosion mitigation plan using natural channel design techniques (AV, BW, Brawley, CC, LMW, Pantano, Sabino, SCRM, SCRL)	X	X					X			8, AC	M	\$\$			2020

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6.1 Implement Public Information Activities																	
6.1.a	Implement the Program for Public Information	Countywide activity as needed	X		X	X	X				X	8, AC	High	\$	District Budget	RFCD, jurisdictions & outreach partners	2020
6.1.b	Provide a system for the community to receive technical assistance or to address drainage concerns	Countywide activity as needed			X		X				4						
6.1.c	Coordinate outreach with local municipalities to promote consistent messages among the regions jurisdictions	Countywide activity as needed								X	5						
6.1.d	Provide a regional federal map repository	Countywide activity as needed								X	5						
6.1.e	Provide map information services in unincorporated Pima County	Countywide activity as needed			X						8, AC						
6.2 New Public Information Activities																	
6.2.a	Update outreach messages for new targets and audiences (e.g. critical facilities, private infrastructure, renters, riparian habitat and high stress index populations)	Countywide activity as needed	X	X	X	X	X	X		X	4, 5.3	L	\$\$	District Budget	RFCD, OEM, jurisdictions & outreach partners	2020	
	Conduct targeted outreach about protection of vegetation and riparian habitat to prevent or reduce drainage runoff problems (TF)		X	X	X						8, AB	M	\$			2021	
	Conduct targeted outreach about improvements to nonconforming use structures (ACW, TVC)				X						8, AB	H	\$			2021	
	Conduct targeted outreach to property owners in the vicinity of the break-out of the Brawley Wash below 3 Points Bridge (Brawley)				X						8, AB	H	\$			2021	
	Conduct targeted outreach to property owners within the floodway (BW)				X	X					8, AB	H	\$			2021	
	Identify and conduct targeted outreach to areas which can get cut-off during flood events (ACW, SPR, LMW, AVG, TM)				X	X				X	8, AB	H	\$			2021	
	Promote flood insurance with Increased Cost of Compliance coverage for homes in the vicinity south of Irvington Rd. and east of San Joaquin Ave (SCRM)				X		X				4, 7, App C	H	\$			2021	
	Provide outreach on the availability of private road and drainage easement technical assistance (BW, Brawley, SCRM, TM)				X	X					4, 7, App C	M	\$			2022	
	Provide outreach promoting assistance available to homeowners in the vicinity of Oriole Circle and Mayes Place (SCRM)				X	X					4, 7, App C	H	\$			2020	
	Provide outreach promoting assistance available to homeowners in the vicinity of TRS131332 (SCRM)										4, 7, App C	M				2023	
6.2.b	Create on-line crowd source reporting platform	Countywide activity			X	X				X	8, AB	L	\$			2021	
6.2.c	Provide regional local map repository	Countywide activity			X					X	8, AB	L	\$			2023	
6.2.d	Establish message partnerships with community based organizations serving access & functional needs populations	Countywide activity									4, 8	H	\$			2021	

Key:

Cost \$\$\$ = Expensive (Over 1 million dedicated funding needed) \$\$ = 100k-1 million line item budget \$ = <100 k Operational budget

Priority H = Immediately Feasible M = Feasible in Short Term L = Long Term Feasibility

Goals

1. Identify, protect, and preserve watercourses and the natural floodplain function and riparian habitat associated with them, and restore and enhance them where they have been degraded.	4. Reduce the need for rescue and relief efforts.	7. Ensure flexibility for adaptive floodplain management for changing climate circumstances.
2. Protect, preserve and enhance water resources.	5. Ensure the most effective expenditures of public money for flood control projects.	8. Increase regional cooperation and offer inter-jurisdictional floodplain management services.
3. Ensure that those who occupy areas within regulatory floodplain and erosion hazard areas are aware of the consequences of their actions within those areas.	6. Prevent flood and erosion damages including ensuring the operability of critical facilities during flood events.	

Watershed Abbreviations for Detailed Sample Actions

URBAN

- ACW Agua Caliente Wash
- AC Arivaca Creek
- BgW Big Wash
- BW Black Wash
- Brawley Brawley
- CDO Canada del Oro
- CF Catalina Foothills
- CC Cienega Creek
- LMW Lee Moore Wash
- Pantano Pantano Wash
- Rillito Rillito Creek
- Rincon Rincon Creek
- SC Sabino Creek
- SCRL Santa Cruz River Lower
- SCRM Santa Cruz River Middle
- SCRU Santa Cruz River Upper
- TVC Tanque Verde Creek
- Ajo Tenmile/Gibson Arroyo
- TF Tortolita Fan
- TM Tucson Mountains

RURAL

- AV Altar Valley
- AVG Aguirre Valley/Green Wash
- RS Rio Sonoyta
- SC San Cristobal
- SPR San Pedro River
- SS San Simon Wash
- Sopori Sopori Wash
- Tule Tule Desert

** Countywide = Unincorporated Pima County