CHAPTER 1. FLOOD RELATED PROBLEMS

The Phase I report documented flood related problems reported by individuals, the Solano County Department of Transportation (DOT), the flood control task force working groups, the local Resource Conservation Districts (RCD), cities, and site specific information provided by SCWA staff. The documentation was based largely on flooding which occurred in years 1995 through 1997. For Phase II, the documentation was expanded to include additional flood related problems and to provide more detail on the problems.

This information was used in Phase II to analyze the problems and establish the basis for their consideration by SCWA in developing an overall Master Plan. Flood complaint calls and observations are helpful in identifying problems, but they do not include all flooding problems in the County. There may be others that were not reported. In the future, it is recommended that documentation of problems be developed in combination with aerial photos after large runoff events to more clearly identify the extent and severity of flooding. However, for Phase II the documentation described above was the best available information and has provided a picture of the predominant flooding issues in the County.

PROBLEM TYPES

The first step in Phase II was to classify the reported flood problems into two broad categories, local problems and problem areas, based on the areal extent of the problems and the anticipated complexity and cost of the solution.

Local Problems

Local problems are associated with a specific drainage problem which affects one or more property parcels. The terms "flood control" and "drainage" are sometimes used interchangeably. The term "drainage" applies to removing water from an agricultural field, either from summer irrigation or winter storms. During winter storms, "drainage" and "flood control" have essentially the same meaning. During the summer irrigation season, "drainage" problems are different although the same facilities may be used in the winter season. Usually the landowner can afford to deal with summer irrigation drainage, while winter drainage problems are more severe and often involve a whole watershed or subwatershed.

Examples of local problems include plugged or inadequate culverts or a section of ditch or creek choked by vegetation or debris. Elimination of these local problems typically results in insignificant downstream impact. These problems can be solved through SCWA's current grant program; local RCD and Natural Resources Conservation Service (NRCS) technical assistance; Solano County DOT, Irrigation District and Reclamation District improvements; and landowner actions.

Problem Areas

Problem areas are drainage basins or subbasins which require a coordinated solution among landowners or agencies. The reported problems in a problem area are similar and are related to the same drainage system, for example, a tributary or reach of a stream which is under capacity or which has an inadequate downstream outlet. Solutions for problem areas typically require consideration of the entire drainage system. Solutions may also address more than one problem area, for instance an entire watershed or region. Because the goal of Phase II was to provide a comprehensive approach for solving countywide drainage and flood control problems, this report focuses mainly on solutions to problem areas and their encompassing watersheds.

Table 1-1 provides a summary of the reported problems grouped by the regions defined in Phase I. The problems are sorted by region, by watershed, and by problem areas. These reported problems are up to date as up mid-March 1998. SCWA staff continuously updates this database. The most up to date database will be used when problem areas are studied.

Local problems in Table 1-1 were included in the closest problem area in this table, although the solution to each of these local problems may not be specifically related to the problem area solution. Many of the local problems and some of the problem areas have already been addressed by past activities of SCWA, DOT, or NRCS through local RCDs in 1996 and 1997. If a problem has been reviewed or addressed it is indicated in the "action" column. A description of the columns in Table 1-1 is given below.

Column	Description
Region	Region of County designated in Phase I
Watershed	Watershed in which the problem is located
Problem Area	Name of Problem Area
Project Type	Extent of problem, A=Area, L=Local
Flood ID	Identification number of a flooding related problem
Map ID	Identification number of the flooding related problem on the Flood Information Map
Reference	City or agency which reported the flood problem; BN=City of Benicia, DX=City of Dixon; FG=State Department of Fish and Game; MP=Main Prairie Water District, RD=Reclamation District 2068, RV=City of Rio Vista, SC=Solano County Department of Transportation, SM=Suisun Resource Conservation District, UL=Ulatis Resource Conservation District, VC=City of Vacaville
Ref ID#	Identification number used by the city or agency which reported the problem
Location Description	Description of the location of the flood related incident
Problems	Detailed information on flood damage
Possible Cause/ Suggested Solution	Causes and solutions given by observer
Frequency Information	Frequency information provided by observer
Observer	Name of individual reporting the problem
Comments/Actions/ Recommendations	Additional comments related to solutions of problems

Table 1-1. Reported Flood Related Problems

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
S	Freeborn	Freeborn	A	52	52	SM		Freeborn Creek	Siltation			Unknown	
S	American Canyon Creek	American Canyon Creek	A	50	50	SM		I-680 drainage near Fairfield Development				Smith, Dennis and Pete	
S	American Canyon Creek	American Canyon Creek	A	51	51	FG		I-680 below Cordelia	50 acres silting in			DFG	
S	Jameson Canyon Creek	Jameson Canyon Creek	A	55	55	SM		Jameson Canyon	Siltation				
S	Jameson Canyon Creek	Jameson Canyon	L	228	228			Jameson Canyon, Spurs Trail Homeowners Assoc. Reservoir		Siltation / Sediment deposits choked unnamed tributary to Homeowners Reservoir. Need routine maintenance	Past 2 years storms >1" rain, Sediment caused overtopping of tributary.	Palagi, Linda	SCWA Project, 97-98, #4
S	Green Valley Creek	Upper Green Valley Creek	A	41	31			Vokhardt Drain between Rockville Rd and Via Palo Linda	Home Flooded	Ongoing urbanization and lack of consistent vegetation clearing. Channel cleaned in 1993 by CCC sponsored by SCWA. Constriction occurs at Via Palo Linda Rd. where culverts are occasionally restricted by vegetation or debris.	Flooding occurred in 1993 and 1995. Frequency of flooding has probably increased.	Feit, H.	SCWA acquiring easements
S	Green Valley Creek	Upper Green Valley Creek	A	42	42	SC	9	Green Valley Rd/Rockville Rd		Tributary to Green Valley Creek is overgrown and obstructs flow just south of Rockville Rd.		DOT	SCWA in process of getting easement.
S	Green Valley Creek	Upper Green Valley Creek	L	128				Green Valley Rd	Flooding through 30' easement		Peak events	Biggs, Ed	DOT cleaned out.
S	Green Valley Creek	Upper Green Valley Creek	A	274				Green Acres Ln.	Flooding	Inadequate ditch	Runs over every year	Biggs, Ed	County easement
S	Green Valley Creek	Lower Green Valley Creek	A	43	43	SM		Hennessey Creek Relocation		Siltation from upper watershed		Fairfield	
S	Green Valley Creek	Lower Green Valley Creek	A	54	54	SM		Green Valley Creek/Suisun Marsh	Siltation, wetlands			Sweetwater Gun Club	Area dredged, through cost sharing with SCWA.
S	Green Valley Creek	Lower Green Valley Creek	A	250				Cordelia Rd @ Green Valley Ck. - Girl Scouts	Overbank Flow and local drainage	Green Valley Creek Capacity - local drainage	2/86,1/97,2/98 - water in building	Cortwright, Gene - Girl	
S	Green Valley Creek	Lower Green Valley	A	273				Reservoir Rd.	Road dip flooded	New subdivision		Biggs, Ed	
S	Dan Wilson Creek	Dan Wilson Creek	L	30	30			Rockville Cemetery	Cemetery Flooded		Numerous years	Fleeman, Ruth	
S	Dan Wilson Creek	Dan Wilson Creek	L	31	31			Rockville Rd		Sheeting due to road improvements 25 years ago. Need channel to carry water to Dan Wilson Creek		Fleeman, Ruth	
S	Dan Wilson Creek	Dan Wilson Creek	L	44	30	SC	11	Suisun Valley Rd		Road floods due to lack of drainage at Rockville cemetery		DOT	
S	Dan Wilson Creek	Dan Wilson Creek	A	46	46	SC	10	Suisun Valley Rd/South of Suisun Creek		Area south of Suisun Creek floods due to land leveling.		DOT	
S	Dan Wilson Creek	Dan Wilson Creek	A	232	232			Willotta Oaks Subdivision - Suisun Creek		Debris piles caused erosion on Willotta Oaks banks.	Major storm events cause large debris dams to pile near Willotta Oaks and cause	Olsen, Berre	
S	Dan Wilson Creek	Dan Wilson Creek	A	277				Dan Wilson Creek @ Cordelia Rd.	Flooding	Inadequate Bridge capacity		Fairfield	Bridge will be rebuilt with future development
S	Cordelia Slough	Cordelia Slough	A	53	53	SM		Garibaldi Refuge	Siltation, Wetlands			Garibaldi	
S	Cordelia	Cordelia	A	58	58	SM		Cordelia Slough	Siltation			Cordelia Gun	
S	Cordelia Slough	Cordelia Slough	A	59	59	SM		Cordelia Slough	Siltation			Golden Gate Gun Club	
S	Cordelia Slough	Cordelia Slough	A	261				Cordelia Gun Club	Flooding on duck club	Suisun Creek runoff - tule choked sloughs	almost annually now	Mettier, Stacy	
S	Cordelia Slough	Cordelia Slough	L	285				Benton Ct., Suisun City	Flooding		6 hours	Suisun City	

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
S	Cordelia Slough	Cordelia Slough	A	287				Scandia Rd.	Road flooding	Side ditch and culvert under capacity	6-8 hours	Suisun City	
S	Cordelia Slough	Cordelia Slough	L	288				School St. Suisun city	Flooding	Overflow of levee	3 days	Suisun City	
S	Laurel Creek	Laurel Creek	L	286				E. Railroad Ave	Flooding	Inadequate ditch and inlet capacity	18 hours	Suisun City	
S	Suisun Creek	Lower Suisun Creek	L	34	34			I-80 Bike Trail	Standing water comes into some bldgs.	Silt has filled pipes conveying water under bike trail to ditch which takes water under I-80	Every year	Ranch, Valine	Caltrans has cleaned culverts, Fairfield needs to do some culvert work.
S	Suisun Creek	Lower Suisun Creek	L	35	35			Suisun Creek south of SPRR		Levee on east side of creek broke, creek overflowed on the west side toward lower reaches of Green Valley Creek.		Ambrose, Tom and Ida	Levee repair in progress.
S	Suisun Creek	Lower Suisun Creek	L	39				Suisun Valley Creek, Chadbourne Rd., Behind pheasants club	Home Flooded/Loss of Access	Breached levee		Ditmer, Jeff	Levee repair in progress.
S	Suisun Creek	Lower Suisun Creek	A	45	45	SC	17	Cordelia Rd/Suisun Creek		Suisun Creek channel needs to be cleared from I-80 to the SPRR		DOT	Work in progress.
S	Suisun Creek	Lower Suisun Creek	L	56	56			Suisun Creek below I-80	Home/Ag Land Flooded, Siltation	Levee break		Ambros, George	Levee repair in progress.
S	Suisun Creek	Lower Suisun Creek	A	57	57	SM		Lower Suisun Creek	Siltation			Unknown	
S	Suisun Creek	Lower Suisun Creek	L	242				Suisun Creek @ Morrison Lane	Tree fell in Creek		No flooding in area - 1997	Tutierrez, Daniel	
S	Suisun Creek	Lower Suisun Creek	A	262				Willota Oaks	Erosion on creek bank	Debris in creek	1/97, 2/98	Olson, Berte	
S	Suisun Creek	Lower Suisun Creek	A	275				Willota Oaks	Flooding	Overflow from Suisun Cr.	last 2 winters	Angel, Albert	
S	Suisun Creek	Lower Suisun Creek	A	276				Willota Oaks	Flooding	Overflow from Suisun Creek	every 5 years including last two years	Carbonaro, Stephen	
S	Susisun City	Suisun City	L	284				Whispering Bay	Silt build up in detention basin	Silt Build up	moderate rain causes flooding for 2 days	Suisun City	
S	Ledgewood Creek	Upper Ledgewood Creek	A	17	17	SC	12	5000 block of Clayton Rd	Lost 500 vines	Have been told that farmers upstream are farming across creek diverting water through field and on to street instead of downstream.	Only lived at location two years and flooded both years.	Borland, Tom and Minnie Borland, Ralph Brown	
S	Ledgewood Creek	Upper Ledgewood Creek	A	48	48	SC	12	Clayton Rd/Gordon Valley Creek		Gordon Valley Creek overtops and floods road.		DOT	
S	Ledgewood Creek	Upper Ledgewood Creek	A	239	239			Suisun Creek Road / Ledgewood Creek at Wooden Valley Winery		Ledgewood Creek tops bank and heavy vegetation causes backup of water.	Major storm events.	Lanza, Richard	
S	Ledgewood Creek	Lower Ledgewood Creek	A	47	47	SC	13	Ledgewood Creek/Ledgewood Rd		Ledgewood Creek overtops upstream and floods road.		DOT	SCWA in process of clearing.
S	Ledgewood Creek	Lower Ledgewood Creek	A	49	49	SC	14	Abernathy Rd/Mankas Corner Rd		Ledgewood Creek overtops upstream and floods road.		DOT	SCWA in process of clearing.

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
S	Ledgewood Creek	Lower Ledgewood Creek	A	139	139			Mankas Corner Rd/Abernathy Rd		West side of Abernathy has no drainage.	Water stands a week after rains.	Johnson, Don	
S	Ledgewood Creek	Lower Ledgewood Creek	A	266				Abernathy Rd/Ledgewood Cr.	Ag land flooding	Ledgewood Cr. Overflow - standing water		Frisbie, Dean	
S	Ledgewood Creek	Lower Ledgewood Creek	A	278				Alonzo Drain @ I-80	Flooding I-80	Inadequate creek capacity above Fairfield Streams Project	2/3/98	SCWA	
S	Hill Slough	Hill Slough	L	60	60	SC	19	Scally Rd.		Road floods due to tidal action and inadequate drainage downstream.		DOT	
S	Hill Slough	Hill Slough	L	134	60			3703 Scally Rd		Flooding as a result of landfill road. County easement problems.		Bonnici, June	
S	McCoy Creek	McCoy Creek	L	33	33			Noonan Rd	Floods garage, horse barn, hay barn, and yard	After the aqueduct was put in the SPRR r/w the water had no place to go but south on Noonan Rd. A ditch was dug on both sides of Noonan Rd but the ditch on the west side is lower and gets most of the water.	When it rains for 2 days hard.	Weber, Larry	SCWA grant project- built dike.
S	McCoy Creek	McCoy Creek	L	122	122			Olive Rd Parcel 35-11-20	Winter flooding 2-3 feet deep	8" pipe drain to McCoy Creek		Sullivan, Alan	SCWA grant project - built pipeline.
S	McCoy Creek	McCoy Creek	L	135	135			Peabody Rd/Cement Hill Rd		Unnamed tributary to McCoy Creek.	Localized flooding from peak events	Azevedo, Johanne	
S	Union Creek	Union Creek	L	61	61	SC	16	Vanden Rd		Debris on SPRR needs to be cleared		DOT	
S	Union Creek	Union Creek	L	62	62	SC	15	Vanden Rd		Cross drains and downstream ditches need improvement.		DOT	
U	McCune Creek	Above Timm Rd.	L	280				Sweeney Cr. @ 800 feet east of English Hills Rd	Erosion	Rocks in center of creek	Jan-Feb	Drake, Richard	Ten fold widening
U	McCune Creek	Dry Arroyo	L	198	198	UL	23	English Hills Rd & Dry Arroyo Creek	Active erosion working at mature native oak's root			Rust, Ed	Landowner wants to build barn near creek, which could create additional drainage problems.
U	McCune Creek	Winters Rd.	A	24	24			Winters Rd from Putah Creek Rd. South to Wolfskill Rd	Road flooded at old railway crossing and from 8939 south to	Pit without drainage at old railway crossing.	The road was open during 1955 flood. Flooded twice in 1994 and once in 1995.	Karnopp, Charles	
U	McCune Creek	Winters Rd.	A	88	88	SC	24	Winters Rd		Road is low relative to surrounding property. Owner on east side has filled in natural channel.		URCD, N	
U	McCune Creek	Winters Rd.	A	89	89	SC	25	Winters Rd		Road floods due to downstream land leveling.		URCD, O	
U	McCune Creek	Winters Rd.	A	90	90	SC	26	Winters Rd/Hines Nursery		Road floods since development of Hines Nursery.		DOT	
U	McCune Creek	Winters Rd.	A	164	164	UL	29	Winters Road/Putah Creek Road	Road flood observed.	Winters Road floods due to huge dip in road.		B.C. Stocking	
U	McCune Creek	Winters Rd.	A	179	179	UL	50	Winters Rd. near Thorpe Rd.	Orchard flooding			Hemenway,	Landowners have requested assistance.
U	McCune Creek	Winters Rd.	A	183	183	UL	49	Winters Rd. north of Thorpe Rd.	Orchard flooding			Karnopp, Charles & Anna	Landowners have requested assistance.
U	McCune Creek	Winters Rd.	A	211		UL	56	Winters Road		Road flooding has continued, especially at dip at old plant.			
U	McCune Creek	Winters Rd.		244				Olive School lane	Erosion			Brown, Lillian	
U	McCune Creek	Wolfskill	A	93	93	UL	36	McCune Rd		Constructed channel too small for flow, and excess		URCD	
U	McCune Creek	Wolfskill	A	94	94	UL	33	Winters Rd/Wolfskill Area		Hine's Nursery run-off coming across farmland.		URCD	
U	McCune Creek	Wolfskill	A	95	95	UL	35	Wolfskill south of Gaddini	Out of bank flow.			URCD	
U	McCune Creek	Wolfskill	A	96	96	UL	27	Halley Rd/McCune Rd Intersection	Silt is deposited on road.			Tenbrink, Steve and Linda	
Y	McCune Creek	Wolfskill	A	169	169	UL	55	Halley Rd., north of Sievers Rd.	Field flooding observed	Landowners tried to improve runoff by clearing debris in ditches.		Cooley, Mark	
U	McCune Creek	Wolfskill	A	174	174	UL	72	Wolfskill and Tubbs Roads	Orchard flooding			Gertz, Ann	
U	McCune Creek	Wolfskill	A	177		UL	74	Wolfskill Road	Orchard flooding			Halley, Norman	

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
U	McCune Creek	Wolfskill	A	184		UL	73	Wolfskill Road	Orchard flooding			Knabke, John	
U	McCune Creek	Wolfskill	A	192		UL	71	Wolfskill Road	Orchard flooding	Ditches filled in with silt.		Monnin, Doug & Jackie	
U	McCune Creek	Halley Rd.	A	4	4			McCune Creek at Halley Rd	Ruins county roads, severe erosion problem on roads and	Drainage system inadequate even in mild storms. Severe downstream problem, drainage system is a must to the south and the east.	Every year, 3-4 times/year	Gron, Herman	
U	McCune Creek	Halley Rd.	A	38	4			Halley Rd	Road is damaged due to flooding.	Cross flood observed through a number of properties and across Halley Rd. Part of Wolfskill area flooding involves I-505 and area east and south of Wolfskill. Entire area must be studied.	Once in 1986, Twice in 1996	Martinez, Joeseph and Halley Rd. property owners	
U	McCune Creek	Halley Rd.	A	91	91	SC	22	Sweeney Rd/Halley Rd		McCune Creek provides drainage for this area. In the past SID has maintained this channel from Halley Rd. to the Ulatis project. SID has stated they will no longer provide this maintenance.		DOT	
U	McCune Creek	Halley Rd.	A	97	97	UL	48	Halley Rd South of Thissell		McCune Creek well dug out but continues to flood.		URCD	
U	McCune Creek	Halley Rd.	L	114	114			Shadi Lane/Sweeney Rd		County ditch does not have a level path.		Spencer, Robert	DOT graded roadside ditch and installed a driveway culvert.
U	McCune Creek	Halley Rd.	A	119	119			Kobert Rd	Garage flooded in last two years and came within 2" of		Lived at location since 1983, in 1994 and 1995 flooded garage 3 times.	Berger, Stephen	
U	McCune Creek	Halley Rd.	A	160	160	UL	37	Rural land @ Halley road south of Thissell	Excessive erosion and flooding				
U	McCune Creek	Halley Rd.	A	163	97	UL	54	Halley Rd, north of Sweeney Rd.	Flooding all 40 acres, with gully forming on			Avdales	Applied for grant.
U	McCune Creek	Halley Rd.	A	185	119	UL	82	Drainage ditch behind 3490 Kobert and McCune ditch from backside of Kobert Dr to Halley Rd	Depth of water behind house was 2-2.5'			Koehne, Ron	
U	McCune Creek	Halley Rd.	A	201	96	UL	51	Halley Rd and McCune Rd	Driveway was severely damaged by flooding. Field			Sievers, Warren	Landowners have requested assistance.
U	McCune Creek	Halley Rd.	A	202	91	UL	52	Sweeney Rd, east of Halley	Flooding observed			Spencer, Robert	
U	McCune Creek	Halley Rd.	A	204	204	UL	18	Patrick Lane between Halley & Kobert Rds, north of Sweeney Rd.	Flooding a problem.	Seasonal creek was filled in and rerouted along edge of property.		Waggonner, Rober & Carol	Low berm presently lies around the house. NRCS will make recommendations for soil stabilization
U	McCune Creek	Halley Rd.	A	208	208	UL	44	Dry Arroyo east of Kobert		Sediment in channel causes out of bank flow.			
U	McCune Creek	Halley Rd.	L	243				Shady Creek Ln.	Erosion/sedimentatio			Johnson, Charlie	Looking at Small Grant program
U	McCune Creek	Halley Rd.	A	260				N. Meridian Rd.	Ditch overflows	Water from Allendale		Bradanini,	SID ditch?
U	McCune Creek	Halley Rd.	A	279				Halley Rd. @ Thissel Rd.	Ag flooding		during heavy winter rains	David Schulze	Owner to do some improvements
U	McCune Creek	Farmer's Drain	A	79	79	UL	34	Dixon Ave West	Flooding west of "Dixie" the dinosaur.				
U	McCune Creek	Farmer's Drain	A	92	92	UL	43	NW of Meridian and		Channel filled in and realigned to the South.		URCD	
U	McCune Creek	Farmer's Drain	L	98	98	UL	38	Sweeney Rd	Excessive erosion			URCD	
U	McCune Creek	Farmer's Drain	A	165	92	UL	78	Meridian Rd, north @ Silveyville Rd.	Field and pasture flooding			Barbee, Jack	
U	McCune Creek	Farmer's Drain	A	190		UL	77	Silveyville Rd	Orchard and field			Monk, Mel	
U	McCune Creek	Farmers Drain	A	255				Schroeder Rd, 200 yards N of Dixon Ave West	Flooding	Raising of County Rd.	during long periods of rain	Geronimo, Tony	Damage to home
U	McCune Creek	Farmer's Drain	A	281				N/S Drain into Weyand	Ag flooding	Inadequate culvert	4"+ storms	Tanaka, Barry	
	McCune Creek	Farmer's Drain		281									
U	Sweeney Creek	Allendale Rd.	A	29	29			Allendale and Heather Lane/Putah South Canal	Flood Water Inundated		Past 2-3 years	Lum, Helen	

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
U	Sweeney Creek	Allendale Rd.	A	126	126			Allendale and Timm Rds, trib to Sweeney Creek		90 deg. bends in creek cause heavy erosion. Creek overflows bank. Upstream landowner straightened creek.	Every storm	Sanchez, Allison	
U	Sweeney Creek	Allendale Rd.	A	130				5021 Allendale Rd	House	Peak flows and high road cause water to back into Mr. Paddia's house. Culverts in roadside ditch are inadequate	5-6 hours	Paddia, Rick	Field to west floods in summer as well.
U	Sweeney	Allendale Rd.	A	191		UL	77	Allendale Rd	Orchard and field			Monk, Mel	
U	Sweeney Creek	Allendale Rd.	A	227	29			Heather Lane off Allendale	Water in house, Road is covered by 2-3' of	Floods from Allendale road water.	Flooding occurs 3-6 hours after rain has stopped.	Wiederholt, Betty	
U	Sweeney Creek	Above Timm Rd.	A	20	20			4510 Peaceful Glen Rd	100% of living space was covered with 18' of running water.	House is located on 90 degree bend, creek cuts across property when capacity is exceeded.	Property has not flooded since early 1960's, then flooded in 1/95, 12/95, and 1/96.	Oates, Dale	Sediment removal through SCWA grant.
U	Sweeney Creek	Above Timm Rd.	A	40				Peaceful Glen Rd				Bass, Weldon	
U	Sweeney Creek	Above Timm Rd.	A	120	120			English Hills Rd & Peaceful Glen		Culvert constraint	Large storms	Moody, Pil	
U	Sweeney Creek	Above Timm Rd.	A	166	20	UL	13	Peaceful Glen Rd.	Periodic flooding			Bass, Sam	NRCS provided plan; dike constructed around property 10/95. Sediment
U	Sweeney Creek	Above Timm Rd.	A	168	168	UL	1	West of Cantelow and Steiger Hill Rds.	Large eroded area in the creek creates an area that could be			Caligiuri Catholic Retreat Ranch	Advised that erosion and stabilization info available from NRCS.
U	Sweeney Creek	Above Timm Rd.	A	171	171	UL	20	Peaceful Glen Road in English Hills		Sweeney Creek not a threat to Domler house, but its erosion is consuming their neighbors property.		Domler, Carl & Sharon	
U	Sweeney Creek	Above Timm Rd.	A	172	172	UL	6	East of English Hills Rd. along Sweeney Creek		Extensive creek bank erosion exists on both creeks. SCS made recommendations for erosion control.		Drake, Dick & Joyce	
U	Sweeney Creek	Above Timm Rd.	A	173	173	UL	9	Sweeney Creek and Dry Creek Trail		Severe erosion conditions in creek area which has exposed extensive root zones of 2 oak trees.		Faherty, Chuck	Received recommendations from NRCS.
U	Sweeney Creek	Above Timm Rd.	A	178	178	UL	3	Cantelow Rd, east of Stieger Hill Rd.	Erosion in a couple of places along the	Mr. Heaton has placed concrete and rock in 2 areas to protect from eroding.		Heaton, Jim	
U	Sweeney Creek	Above Timm Rd.	A	180	180	UL	8	Sweeney Creek and Dry Creek Trail		Sweeney Creek runs through the northern portion of property, creating extensive erosion conditions. Hogg has added riprap to the slope.		Hogg, John	Concrete riprap applied to slope.
U	Sweeney Creek	Above Timm Rd.	A	181	181	UL	11	Peaceful Glen Rd and South Acacia Ln.		Creek causing erosion.		Horton, Robert & Valerie	Hortons want NRCS to make recommendations.
U	Sweeney Creek	Above Timm Rd.	A	189	189	UL	2	English Creek, west of Stieger Hill/Cantelow Rd.		Millers have installed Loffelstein blocks at back of the house to reduce rate of erosion.		Miller, Rodger & Carol	Evaluation prepared by Sally Negroni, SCS Conservationist.
U	Sweeney Creek	Above Timm Rd.	A	195	195	UL	5	Peaceful Glen Rd/English Hills	Active erosion and occasional flooding. Home is not			Nortier, Art	
U	Sweeney Creek	Above Timm Rd.	A	199	199	UL	25	English Hills area, beyond Olivas Rd.	Soil erosion			Seday, Ann	
U	Sweeney Creek	Above Timm Rd.	A	200	200	UL	19	Drainageway along south side of Cantelow Road	Substantial erosion.	Shafer requests NRCS to meet and discuss corrections.		Shafer, Bruce	
U	Sweeney	Above Timm	A	205	205	UL	10	South Acacia Lane		Deeply eroded gully.		Wakelee, Nancy	Riprap installed and vegetation removed.
U	Sweeney Creek	Above Timm Rd.	A	206	206	UL	7	Dove Creek Trail	Spillway to creek has been severely undercut, causing			William, Gerald	Williams backfilled undercut area with concrete riprap, replaced soil, and seeded w/ perennial grasses.
U	Sweeney	Above Timm	L	230	230			Peaceful Glen Road / Acacia			During peak events every year.	Diaz, Henry	SCWA Project, 97-98, #5
U	Sweeney Creek	Above Timm Rd.	L	233	181			S. Acacia Lane		Water uphill of property caused erosion and flooding throughout barn and parcel.	After and during all rain events.	Batory, Steve	SCWA Project 97-98, #7
U	Sweeney Creek	Above Timm Rd.	L	236				English Hills Road	Major erosion and sedimentation	Stream has altered from original course.	Major storm events.	Caplener, Linda	SCWA Project 97-98, #17 and 20
U	Sweeney Creek	Above Timm Rd.	A	241				Shawn lane	Erosion, sediment in creek		Once a year - subsides in couple of hours	McCormick, Thomas	Water stays in creek

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
U	Sweeney Creek	Above Timm Rd.	A	249				Peaceful Glenn Rd.	Erosion/Flooding		1/2 inch rain causes flooding - ongoing prob, multiple yrs	Whitcom, Fred	No channel/no ditches
U	Sweeney Creek	Above Timm Rd.	L	264				Sweeney Cr. W. of English Hills Rd.	Bank erosion	meandering creek	Jan-Feb-Mar 1996-98, Every 6-8 years prior to 1996	Nortier, Art	
U	Sweeney Creek	PSC to Timm Rd.	A	186		UL	60	Shawn Lane and Sweeney Creek	Roads and low lands	Large debris dam causes property flooding, threatening house.	Recently, less rainfall required to induce flooding. 3/4" of rain will cause 2' to 3' of flooding, in the past 3" to 4" inches would cause the same	Lehman, Steve and Mary Anne	Vegetation removal through SCWA grant.
U	Sweeney	PSC to Timm	A	187	187	UL	14	Sweeney Creek and Timm		Debris collects in the vegetation of the creek bed.		Lum, Paul	Vegetation removal through SCWA
U	Sweeney Creek	PSC to Timm Rd.	A	197	197	UL	15	End of Heather Lane, between Timm Rd/I-505		Sweeney Creek overflows due to debris.		Percy, Carol	
U	Sweeney Creek	PSC to Timm Rd.	A	217	217			Sweeney Creek and Timm Rd.	Riding area and pasture, only 10' from barn.	Flooding comes from Sweeney Creek backing up through a 5' culvert that goes under and over Timm Rd. in a 100' foot section. Flooding also from unchanneled runoff from Peaceful Glen Rd. into Timm Rd. Flooding always comes from downstream.	Since 4/83 flooding has occurred, 3 times in 1995 and 4 times in 1996. Flooding occurs rapidly and lasts 45 min to 2 hrs.	Spona, Elizabeth and Michael	More information provided in documentation.
U	Sweeney Creek	PSC to Timm Rd.	A	219	197			Sweeney Creek and Heather Lane	Floods in rear yard up to retaining wall, It has gone over wall twice but not in		It has gone out 5 out of 8 years. Only is a major problem after several days of heavy rain.	McGraw, David L.	
U	Sweeney Creek	PSC to Timm Rd.	A	221				Shawn Lane and Sweeney Creek	Flooding occurs more than half the length of Shawn Lane. Water from Pace lane washes away property. Estimates $2K to $3K in damage each year.	Drainage from Timm Rd. has to go through culvert at Shawn Lane to get to Sweeney Creek. Creek backs up on property and culvert can not flow. Creek needs to be cleared out. Ditches on Timm Rd should be fixed.	Property is not in flood zone and has flooded every winter for past seven years.	McGee, Dale	
U	Sweeney Creek	PSC to Timm Rd.	A	222	197			Heather Lane	Flooded up to house, into garage, back patio.	Drainage will subside when SID does something to the canal.	Flooded every year for the past 16-17 years. The flooding does not last long, because SID does something to let the water go down.	Fiore, Anton, F.	
U	Sweeney Creek	PSC to Timm Rd.	A	224	197			Heather Lane	3"-5" in the garage, up to front door.	Sweeney Creek overloads not letting drainage ditches empty into the creek. Improvements to properties in the English Hills areas creates faster runoff into Sweeney Creek exceeding it's capacity.	Flooded in 1978, now it floods every time we get two days of average rain.	Dahl, Donald	
U	Sweeney Creek	PSC to Timm Rd.	A	226	197			Heather Lane	Floods property	Sweeney Creek is blocked by debris and growth in the Creek.	Only occurs when rainfall is heavy.	Higaki, Fred	
U	Sweeney	PSC to Timm	A	259				Sweeney Creek @ PSC	Orchards flooded	Backwater effects	lasts 2-4 hours	Schaffner, Marie	
U	Sweeney Creek	PSC to Timm Rd.	A	270				Sweeney Cr. @ PSC	PSC storm drain backs water on	PSC drainage	several times 1998 and 1997	Lum, Mon	
U	Sweeney Creek	Ulatis Project to PSC	A	116	116			Under I-505 and SID Kilkenney Channel		Erosion from pipe under 505 and SID canal		Smith, George	
U	Sweeney Creek	Ulatis Project to PSC	A	129	129			Hartley Rd South of Sweeney Creek	Parcels flooded east of roadside ditch.	Overflow of Sweeney Creek and SID Channel	2-6 hours, water depth 1-3 feet	Infante, Wanda	
U	Sweeney Creek	Ulatis Project to PSC	A	167		UL	59	Setter Lane and Sweeney Creek				Brown, Cherrie & Stephen	Vegetation removal through SCWA grant.
U	Sweeney Creek	Ulatis Project to PSC	A	170	170	UL	16	North Locke Road, Sweeney Creek on both sides	Areas actively eroding			Dixon, Gary & Jenny	Creek's edge stabilized w/ riprap.

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U	Sweeney Creek	Ulatis Project to PSC	A	193	193	UL	21	Ridgeview Lane in Allendale area	Poor drainage makes it impossible to establish plants.	Large trees and debris block creek like a dam causing flooding in the entire area.	Jan '96 through Mar '96	Moore, Joe & Kimberly	
U	Sweeney Creek	Ulatis Project to PSC	A	203	203	UL	17	Locke Rd, west of I-505		Erosion in creek has created several problems, including potential hazard due to soil erosion at large old cottonwood tree's base.		Taylor, Linda	
U	Sweeney Creek	Ulatis Project to PSC	A	213	129	UL	80	Hartley Road	Road flooding				
U	Sweeney Creek	Ulatis Project to PSC	A	218	203			Sweeney Creek and North Locke Rd.	Water inundates all but 3/4 acre of 12.7 acre parcel, water flows through barn and covers one well.	Water comes over creek bank at curves and low spots. Drainage is unpredictable and depends on many factors.	Lived at location since 1983, flooded before creek was cleaned 15 yrs ago. Flooded more frequently in the last two years.	Skyles, Ardith, J.	
U	Sweeney Creek	Ulatis Project to PSC	A	220	129			Hartley Rd.	Property, garages, house, barns	Culverts under 505 plugged up.	When Berryessa is at capacity. Floods usually after rain has quit. Lasts about 4 hours.	Hatcher, Clifford and Maye	
U	Sweeney Creek	Ulatis Project to PSC	A	223	223			McEathron Lane	Orchard and equipment shed flooded	Lack of maintenance to Sweeney Creek contributes to flooding. Since SID has been running down the creek it has kept the vegetation growing in the summer. Losing land, no riprap is put in place as required by the easement.	Always had some flooding in the area but not like now.	Scheffner, Marie, E.	
U	Sweeney Creek	Ulatis Project to PSC	A	225	225			Cole Rd.	Water floods horse area, goes under house and floods garage. Heating and AC ducts were ripped out from under the house years ago.	Sweeney Creek overflows it's banks and flows across property.	Flooding repeatedly since 1975	Baker, Sharon, D	
U	Sweeney Creek	Ulatis Project to PSC	L	246				Locke Rd, N. of Udell	Flooding	Backflow from neighbor - Wang	1/97 & 1/98 - frequent	Downhill, Susan	Alex Wang, 7720 Locke Rd
U	Sweeney Creek	Ulatis Project to PSC	A	265				Locke Rd	Overbank flooding	Sweeney Creek	Jan-Feb 96&97	Teraura, Tomio	
U	Sweeney Creek	Ulatis Project to PSC	A	271				Sweeney @ Mceathron	Drainage ditch to Sweeney backs up	High flows in Sweeney Cr.	2 times per year last few years, drains off in one hour	France, R.	
U	Sweeney Creek	Ulatis Project to PSC	A	283				PSC @ Kilkenny Drain	Flooding	Kilkenny Canal overtops	peak events	Nunes, Kelly	
U	Sweeney Creek	Lower Sweeney	L	75	75	SC	29	Griffin Lane/Meridian		Floods due to undersized cross drain and downstream ditch.		SC #29	DOT planning improvements in area.
U	Sweeney	Lower	L	76	76	UL	E	DeMello Lane				Phyllis/Boykins/	DOT working on ditches on east side of
U	Sweeney Creek	Lower Sweeney	A	112	112			Meridian/Dixon Ave. West		Beaver dams need to be removed.		Wright, Lyman	
U	Sweeney Creek	Lower Sweeney	L	238	238			Midway Road and Nunes Road			48-72 hours. Nearly every storm. 2 - 3' of water.	Machado, John	SCWA - Ulatis Budget Project. Dot has made improvements at Nunes Road.
U	Gibson Canyon Creek	Gibson Canyon Creek	L	2	2			Locke Rd north of Esquivel	Septic backed up.	Inadequate drainage in front of and across landowner's property.	Every Year, water stands for months	Koci, R.	Culvert installed.
U	Gibson Canyon Creek	Gibson Canyon Creek	L	8	8			Leisure Town Rd between Bryant and Midway Rds				Tribukait, George and Joanne	DOT planning improvements in area, working with landowners, Wahline and Owen, in area where Wyndotta drain crosses SID?
U	Gibson Canyon Creek	Gibson Canyon Creek	A	13	13			Fox Rd.		Water overflows irrigation ditch and runs onto landowner's property. Fox Rd floods when drain flaps close.	1992 or 1993 and 1996	Lowellin, W.	New 36" culvert installed.

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U	Gibson Canyon Creek	Gibson Canyon Creek	L	32	32			Burnes Rd and Kilkenny				Gellar, Linda	DOT has done work in the area.
U	Gibson Canyon Creek	Gibson Canyon Creek	A	74	74	UL	D	Midway/Electric Lines/Ulatis-D				Anthony	
U	Gibson Canyon Creek	Gibson Canyon Creek	A	118	118			Leisure Town Rd & Midway Rd	Sheet flooding on parcel 106-021-46			Brown, Marilynn	
U	Gibson Canyon Creek	Gibson Canyon Creek	A	127	127			7484 Paddon Rd.	1 acre inundated, letter to Dave	Blueline ditch channelized. East neighbors water obstruction, water not passing Locke Rd.		Mullen, Tipp	
U	Gibson Canyon Creek	Gibson Canyon Creek	A	131	131			Winding Way/Yolo Drain	Septic problems. Wrote letter to SID	Yolo drain overflows east and ponds 3' deep	2-3 days	Cleveland, Helen	
U	Gibson Canyon Creek	Gibson Canyon Creek	L	138	138			Midway & Putnam Rds	Barn & house flooded	Roadside ditch carries more water now. Blockages at PSC.	2 feet of water, 24 hours.	Smith, Kathy	
U	Gibson Canyon Creek	Gibson Canyon Creek	L	237	237			Paddon Road / Putah South Canal	Home and barn flooded	Over flow over Putah South carries water through parcel which during more rain events floods home and barn. Channel too small.	Every storm.	Finnel, Charles	SCWA Project 97-98, #23
U	Horse Creek	Horse Creek	A	7	7			East end of Maple and Poplar Rds	Concerned about homes, barns, stored hay, no damage to	Drainage is backed up when Horse Creek is at capacity. Development of Orange Drive and industrial area will add to Horse Creek water levels.	Problem is becoming more frequent.	Halse, E	
U	Horse Creek	Horse Creek	A	73	73	SC	30	Maple Rd/Willow Rd		Outlet is to Horse Creek. High water in Horse Creek prevents outflow and causes flooding.		DOT	
U	Horse Creek	Horse Creek	A	121	121			Leisure town/Maple Rd.	Summer flooding back 2 1/2 acres, winter flooding			Steel, Eileen	Summer flooding problem solved.
U	Horse Creek	Horse Creek	L	133				3299 Aldridge Rd	Septic problems, backyard floods	Peak flows are diverted from upstream landowners through a culvert pipe line to middle of landowner's property. Neighbors are uncooperative.	5-15 days septic system flooded out.	Lawzarin, Toby	
U	Horse Creek	Horse Creek	L	245				Aldridge/Eubanks	Local Flooding	Upstream culvert	3X in 97 - floods every storm	Lanzarion, Tony	
U	Horse Creek	Horse Creek	L	247				Kilkenny/Byrnes Rd.	Irrigation flooding and winter flooding	Neighbor (Millhouse) ditch blockage	every year for 4 years	McKinney, Susan	New bridge - water can't get to bridge
U	Ulatis Creek	Ulatis Creek	L	9	9			Clark Rd / Hawkin Rd north end		County needs to dig ditches and maintain them. The farmers build irrigation berms, preventing water from running off the road.		Parker, R.	SCWA grant for culvert replacement. replace 3-36" with 2-48" and driveway pipe.
U	Ulatis Creek	Ulatis Creek	L	15	15			Fry Rd and Hwy 113		Drain under Ulatis project access road inadequate.		Johnson, Elmer	
U	Ulatis Creek	Ulatis Creek	L	125	125			California Pacific & Byrnes Rd, Elmira			Every storm, Field floods for months at a time. Road floods for weeks.	Dally, Rush	DOT plans to replace cross drain at end of property, however choked with weeds at RR.
U	Ulatis Creek	Ulatis Creek	A	144	144	VC	5	Brown Street		Alamo Creek overflow		Vac #5	
U	Ulatis Creek	Ulatis Creek	L	150	150	VC	11	Yellow Rd		Ulatis Creek overflow		Vac #11	DOT cleaned plugged drain.
U	Ulatis Creek	Ulatis Creek	L	263				Hawkins/Byrnes	Flooded ag field	Inadequate culvert across Hawkins Rd.	several times a year	Holdner,	
U	Alamo Creek	Alamo Creek	A	117	117			Alamo Creek within City Limits	Bank erosion	No city involvement.		Coffey, Ellen	
U	Alamo Creek	Alamo Creek	A	136	136			Alamo Creek above Alamo Rd	Backyard flooded, called Tom Holmgren	Roadside drainage from channel flood backyard.	2-3 days	Rauweilefe, Robert	
U	Alamo Creek	Alamo Creek	L	137				Fry Rd at SID Drain	Access road flooded out	Culverts don't drain properly. Add culvert to SID drain instead of going under county road.	72 hours or greater		
U	Alamo Creek	Alamo Creek	A	140	140	VC	1	Alamo Drive		Alamo Creek overflow		Vac #1	
U	Alamo Creek	Alamo Creek	A	141	141	VC	2	Alamo Drive		Alamo Creek overflow		Vac #2	
U	Alamo Creek	Alamo Creek	A	143	143	VC	4	California Drive		Alamo Creek overflow		Vac #4	
U	Alamo Creek	Alamo Creek	A	145	145	VC	6	Peabody Rd		Alamo Creek overflow		Vac #6	

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U	Alamo Creek	Alamo Creek	A	146	146	VC	7	Tulare Rd		Alamo Creek overflow		Vac #7	
U	Alamo Creek	Alamo Creek	A	147	147	VC	8	Tulare Rd		Alamo Creek overflow		Vac #8	
U	Alamo Creek	Alamo Creek	A	148	148	VC	9	Gentry Drive		Alamo Creek overflow		Vac #9	
U	Alamo Creek	Alamo Creek	A	149	149	VC	10	Alamo Drive		Alamo Creek overflow		Vac #10	
U	Alamo Creek	Alamo Creek	A	188		UL	68	Adjacent to Alamo Creek in Vacaville	Bank erosion approaching small			Micholas	NRCS & URCD working w/ landowners to solve problems.
U	Alamo Creek	Alamo Creek	L	234				Bucktown Road - Alamo		Banks of creek overflow during peak events.	Past two years. 48 hours.	Simpson, Jo	Medium Term SCWA Project 97-98
U	Alamo Creek	Alamo Creek	L	240				1401 Marshall Rd. @ Putah South Canal	Flooding from PSC ROW	Inadequate drainage on PSC ROW	Past 5 years	Howell, Terry (Hidden Creek	Possible Solano Project funding
U	Laguna Creek	Laguna Creek	L	63	63	SC	20	Cherry Glen Rd		Road floods due to inadequate private driveway culvert and lack of maintenance of private drainage ditch.		DOT	DOT has done work in the area.
U	Laguna Creek	Laguna Creek	L	64	64	SC	21	Pleasant Valley Rd		Small creek 1/2 mile north of Cherry Glen Rd. is overgrown and silted in.		DOT	
U	Laguna Creek	Laguna Creek	L	132	63			Cherry Glen Rd		Water backs up as a result of vegetation and debris build-up.	36 hours		
U	Laguna Creek	Laguna Creek	L	142	142	VC	3	Lagoon Valley Rd				Vac #3	
U	Pleasant Creek	Pleasant Creek	L	176	176	UL	65	Adjacent to Putah Creek		Erosion where McCune Creek outlets from a culvert under Putah Creek Road.		Gowin, Lawrence	DOT has plans to address the problem.
U	Pleasants	Pleasant	L	282				Pleasants Valley @ Putah	Erosion			Nichols, Coy	
U	Pleasants Valley	Pleasants Valley Creek	L	235				Pleasant Valley Rd - unnamed tributary to	Home endangered	Erosion due to excessive flows in creeks.	Flooding/erosion during peak events.	Deguerre, Kristine	SCWA Project 97-98, #15
D	Dixon	Batavia	L	22	22			I-80, Dixon Ave West, Schroeder Rd		Water has nowhere to go. Water will not flow under I-80. Caltrans cross drain @ I-80 is higher than county drainage.		Schroeder, Syd	
D	Dixon	Batavia	A	23	23			Batavia Rd	3-40 acre parcels on Batavia Rd and 1 Home at 7508 Batavia Rd.	Property to the North has been releveled. They closed up the ditch that allowed the water to flow the natural course. The County installed new culverts under Midway which did not receive much water this year.	1/95 first time, 12/95, 1/96, 2/96. Owned the property since 1928 and have not had this water situation ever.	Panizza, Achillese	Potential resolution as part of proposed new outfall from Dixon Pond A.
D	Dixon	Batavia	A	77	77	SC	1	Porter Rd/Midway Rd		Inadequate drainage outlets across SPRR.		URCD	
D	Dixon	Batavia	A	161		UL	63	Batavia Rd		Field flooding observed. Alonzo fields drain into Olsen Drain, which has low pipe to drain into Ulatis Flood Control Project.		Alonzo, Al	
D	Dixon	Batavia	A	182		UL	64	Batavia Rd. east of Alonzo, north/northeast of Panizza	Field flooding observed.			Ingram, Peggy & Gordon	Landowners working w/ NRCS to design a sump pump/pipeline to Olsen
D	Dixon	Batavia	A	194	77	UL	61	Porter Rd/Midway Rd.	Property surrounding house flooding			Nelson	
D	Dixon	Batavia	A	196	196	UL	31		Flooding observed			Panizza, Kelly	
D	Dixon	Batavia	A	256				Schroeder/Reddick	Flooding	Inadequate culverts	many times past 23 years, floods for several weeks	Robbins, Mary	
D	Dixon	Batavia	A	257				Schroeder Rd.	Flooding around		years with abnormal rainfall	Burley, Pat	6" of coming in house- in garage
D	Dixon	Batavia	A	258				Reddick Ln	Flooding of ag land	I-80 culverts	heavy rains - ponds for weeks/months	Shor, Don	Check I-80 culverts
D	Dixon	City of Dixon	L	19	19			Between Pitt School & Midway Rds adjacent to South edge of Dixon Storm		Flooding occurs from groundwater seepage when city reservoir is filled.	Flooding last two years	Furnsha, Anna	City is working on resolving this problem.
D	Dixon	City of Dixon	A	154	154	DX	1	Northwest Park	Road/Homes Flooded, Intense	The info from these problems needs to be given to City officials for resolution. Local improvements may		Dixon #1	
D	Dixon	City of Dixon	A	155	155	DX	2	Cypress/Spruce Streets	Road/Homes Flooded, Intense	The info from these problems needs to be given to City officials for resolution. Local improvements may		Dixon #2	
D	Dixon	City of Dixon	A	156	156	DX	3	S. Jackson Street	Road/Homes Flooded, Intense	The info from these problems needs to be given to City officials for resolution. Local improvements may		Dixon #3	

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
D	Dixon	North of Dixon	A	11	11			Vaughn Rd / Pedrick Rd		Water backs up before flowing under Pedrick Rd. and east.		Gill, Roy	
D	Dixon	North of Dixon	A	12	12			Pitt School Rd, 1/2 mile South of Sievers Rd		Water backs up on west side of Pitt School Rd until it builds up and crosses the road.		Gill, Roy	
D	Dixon	North of Dixon	A	80	80	SC	5	Pitt School Rd/I-80		Drainage at I-80 and/or downstream is inadequate.		SC #5/ Ulatis-G	
D	Dixon	North of Dixon	A	81	81	UL	46	Pitt School Rd North of Silveyville Rd					
D	Dixon	North of Dixon	A	157	80			West side of Curry Rd North of I-80 interchange	Covering 3 fields, 80 acres total	Agricultural practices and laser leveling have increased the runoff rate, drainage ditches and culverts are inadequate. Main drain through freeway is	Every year for 2 or more weeks	Gill, Roy	
D	Dixon	North of Dixon	A	158	158			Field south and west of I-80/113 interchange	Willing to discuss the area at SCWA's convenience.		Every year for 2 or more weeks	Gill, Roy	
D	Dixon	North of Dixon	A	159	159			Silveyville Rd at I-80 undercrossing	Willing to discuss the area at SCWA's convenience.	City of Dixon has not completed the NFSAD to take the water.	Every year for 2 or more weeks	Gill, Roy	
D	Dixon	North of Dixon	A	207	12	UL	42	Farm land @ Pitt School Rd further south of Sievers Rd		Ponded, no outlet			
D	Dixon	Milk Farm	A	10	10			Vaughn Rd North to I-80 and I-80 North to Sievers Rd		Drains not adequate and county no longer does cleaning.	Floods constantly once ground is saturated.	Gill, Robert	
D	Dixon	Milk Farm	A	78	78	SC	2	Sievers Rd/Curry Rd/Milk Farm Rd			Flooding in this area was much more severe this winter than it has been in the past	DOT	
D	Dixon	Milk Farm	A	82	82	UL	41	Pitt School Rd South of		Ponded, no outlet			
D	Dixon	Milk Farm	A	83	83	UL	40	Sievers Rd/Stevenson's		Water ponds because there is no outlet.			
D	Dixon	Milk Farm	A	175	175	UL	79	North of Sievers Rd, near Schroeder Rd.	Field flooding			Gill, Roy	
D	Dixon	Milk Farm	A	209	209	UL	45	Farm land @ Sievers Rd, east of Pitt School Rd.	Flooding observed				
D	Dixon	Milk Farm	A	210	210	UL	47	Farm land @ Curry Rd, north of I-80.	Flooding observed				
D	Dixon	Milk Farm	L	229	229			Milk Farm south of I-80		18"-36" Pipe silted in, no drainage.	Flooding every rainstorm.	Gill, Roy	SCWA Project, 96-97, #24
D	Dixon	Milk Farm	A	231	231			Dixon Auction Yard / I-80 / Currey Road		Culverts under I-80 silted in. Need to clean sediment from flow Line.	Every storm water backs up on North side of I-80 to Currey	Swent, Dan	Landowner will not clean line until long-term solution in region.
D	Dixon	Milk Farm	A	267				Curry Rd.	Flooding		Heavy rains	Worden, Duane	
D	Dixon	Northeast of Dixon	L	18	18			Pedrick Rd		Drainage ditches along Pedrick Rd. North of I-80 to Tremont Rd are not maintained on a regular basis.	No flooding before 1990. Past 6 years have problems with 1" of rain in 3 hour period.	Clouse, Robert	DOT enlarged ditch on east side, took water west into Caltrans system.
D	Dixon	Northeast of Dixon	A	26	26			Between Tremont and Pedrick	Approximately 100K in grain damaged	Co. Trans has done significant work along Tremont Rd north of I-80 in the last several years. Upstream land practices and recent heavy storms have increased runoff in this area.		Cargill	DOT installed a 24" culvert along Robben Rd. Situation helped but not solved.
D	Dixon	Northeast of Dixon	A	27	27			Sparling Rd/Valley Farms	Home Flooded/Loss of Access	Co. Trans has done significant work along Tremont Rd north of I-80 in the last several years. Upstream land practices and recent heavy storms have increased runoff in this area.		Nickham, Bob	
D	Dixon	Northeast of Dixon	A	28	28			Sparling Rd	Parcel 110-16-07	Drainage Problem. Co. Trans has done significant work along Tremont Rd north of I-80 in the last several years. Upstream land practices and recent heavy storms have increased runoff in this area.		Saltzon, Elva	

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D	Dixon	Northeast of Dixon	L	86	86	SC	7	Tremont Rd/SPRR		Drainage obstructed by SPRR			
D	Dixon	East of Dixon	L	1	1			Harper Lane / Hackman Rd		Plugged drainage pipes from Cabral Ranch. On one pipe there are removable boards which prevent water from draining off. Floods when tailwater is high.	1987, 1996	Cabral, T.	
D	Dixon	East of Dixon	A	37	37			Dixon Ave East, 1/4 mile west of Pedrick		Farming practices e.g. bedding up in fall increase runoff, ripping and leaving open reduce flooding.	After 3-6" of rain in a 24 hour period	Timm, Peter	
D	Dixon	East of Dixon	A	214	214		37	Pedrick Rd, 1/2 mile North and South of Vaughn			After 3-6" of rain in a 24 hour period	Timm, Peter	
D	Dixon	East of Dixon	A	252				Pedrick Rd - Near cannery - Vaughn/Pedrick	Flooding		High during average to high rainfall	DRCD	
D	Dixon	South of Dixon	A	5	5			Weber Rd / Pitt School Rd		In the last five years a permanent ditch was put in the reach to the North and West and increased the flow into the ditch on the east side of Pitt School Road, along landowner's property. Backing up at ditch culvert.		Onsum, J.	
D	Dixon	South of Dixon	A	6	6			Highway 113 / Porter Rd / Midway Rd		Increased flow in ditches	Has not flooded significantly until city flood ponds added water	Jones, J.	SCWA Grant denied due to downstream impact.
D	Dixon	South of Dixon	A	72	72	MP	10	Between Pitt School Rd & Casey Rd	Chial Property			MP #10	
D	Dixon	South of Dixon	A	215	5			Weber Rd / Pitt School Rd		Clear ditches and install larger culverts along Pitt School Road.	In recent years, 3-5 times/year lasting weeks	Jones, J.	
D	Dixon	South of Dixon	A	251				Hwy 113 between Hawkins/Fry	Flooding high with heavy rains		High during heavy rains	DRCD	
D	Dixon	South of Dixon	A	253				Robben Road	Flooding at various spots		High	DRCD	
D	Dixon	Maine Prairie	A	67	67	MP	3	Swan Rd		Roadside culverts are inadequate, 2-6' culverts.		MP #3/RD 2068	
D	Dixon	Maine Prairie	A	68	68	MP	4	Binghampton Rd	Ponding			MP #4	
D	Dixon	Maine Prairie	A	69	69	MP	5	Robben Rd/Binghampton Rd	Ponding	Appears to be mainly ponding in fields and roads.		MP #5	
D	Dixon	Maine Prairie	A	70	70	MP	6	Pedrick Rd/Beckworth				MP #6	
D	Dixon	Maine Prairie	A	71	71	MP	8	Hwy 113/Hawkins Rd, N of Hawkins				MP #8 & 9	
D	Dixon	Maine Prairie	A	115	115			Hwy 113 & Woody Brothers Shop	Summer flooding	Tailwater issue.		Barry, Fred	
D	Dixon	Maine Prairie	A	212		UL	67	Rural land, Maine Prairie Rd south of Ulatis FCP	Road and field flooding	See General Answer for ID's 67-7			
D	Dixon	Maine Prairie	A	248				Binghampton Rd. between Pedrick and Robben	Sheet flow flooding	Dixon RCD undersized facilities	Flooding last 6 years - 24 hours of flooding	Singh, Mohan	
D	Dixon	RD2068 Main	A	100	100	RD	2	North Sikes	Solano County road under water.	Inflows from DRCD, regional drainage problems.	Floods 2-5 days with 2" of rain in 24 hours.	RD 2068	
D	Dixon	RD2068 Main	A	101	101	RD	3	Middle Sikes			2-5 days	RD 2068	
D	Dixon	RD2068 Main	A	102	102	RD	4	South Sikes @ Railroad				RD 2068	
D	Dixon	RD2068 Main	A	104	104	RD	6	Delhi Rd		Inadequate culverts, 4-36" and 1-72", need bridges.		RD 2068	
D	Dixon	RD2068 Main	A	105	105	RD	8	Parallel Channels	Siltation, water			RD 2068	
D	Dixon	RD2068 Main	A	254				Sikes/Midway	Moderate Flooding		Moderate	DRCD	
D	Dixon	Hass Slough	A	65	65	MP	1	Hass Slough				MP #1	
D	Dixon	Hass Slough	A	66	66	MP	2	Maine Prairie Rd/Robben				MP #2	
D	Dixon	Hass Slough	A	111	111	RD	14	Hass Slough		Rehabilitate drainage		RD 2068	

Region	Watershed	Problem Area	Project Type	Flood ID	Map ID	Reference	Ref. ID#	Location Description	Problems	Possible Cause/Suggested Solution	Frequency Information	Observer	Comments/Actions/ Recommendations
D	Cache Slough	Cache Slough	A	123	123			Dixon Boat Club/Cache	Flooding in boat			Dixon Boat Club	
D	Yolo Bypass	Tremont Lateral 2	L	14	14			Mace and Tremont Rds, NW Corner	SW 10-20 acres of 42 acre parcel and Mace Blvd flooded.	Irrigation ditch on west side of Mace was backed up, could not handle water redirected by excavation and land leveling. Ditches do not appear to be maintained. Many weeds and large amounts of sediment.	No problems prior to 1995/1996. 12/15/95 had 1 foot of water for 1 week.	Thomas, Kimberly	
D	Yolo Bypass	Tremont Lateral 2	A	25	25			8424 Wild Rose Lane	Assessors Map 11, Pg. 7, Solano County	Bulkleys Ditch	1995 and 1996 not in 1986.	Dennis, Paulette	
D	Yolo Bypass	RD2068 East	A	99	99	RD	1	Solano County Levee Rd/Yolo County Rd 104		Flooding easements inadequate.		RD 2068	
D	Yolo Bypass	RD2068 East	A	103	103	RD	5	Bulkley/Thomsen				RD 2068	
D	Yolo Bypass	RD2068 East	A	162	162	UL	62	Southwest corner of Midway/Railroad track	Field flooding observed.			Anderson, Joe	NRCS working w/ landowner to install a tailwater return system, which may also
D	Yolo Bypass	RD2068 To PS5	A	106	106	RD	9	Lower levee area/RD2068 lower boundaries		Pumping when bypass full, natural drainage when tide out. Major storage/conveyance problems during storms, pumping capacity limited.	2" of rain produces flooding.	RD 2068	
D	Yolo Bypass	RD2068 To PS5	A	107	107	RD	10	Liberty Island Rd/Yolo County Rd 454		Inadequate culvert, channel capacity problem. To double 48" capacity OK.		RD 2068	
D	Yolo Bypass	RD2068 To	A	108	108	RD	11	Levee barrow pits		Capacity problems in developed drainage		RD 2068	
D	Yolo Bypass	RD2068 To	A	109	109	RD	12	Liberty Island Rd south of		Culvert drainage constraints.		RD 2068	
D	Yolo Bypass	RD2068 To PS5	A	110	110	RD	13	Development/Home Owners		Inadequate facilities, low spot. Levee $14 million improvement design standards.		RD 2068	
D	Putah Creek	Putah Creek	A	84	84	SC	8	Stevenson's Bridge Rd/Campbell Rd		Land leveling has left Stevenson Bridge Rd. 3 to 4 feet low.			
D	Putah Creek	Putah Creek	A	85	85	UL	32	Putah Creek Rd/Stevenson's Bridge Rd	Not unusual for the intersection to be under 18 inches of	Look at draining this area into Putah Creek			
D	Putah Creek	Putah Creek	A	87	87	UL	28	McNeil Rd/Putah Creek Rd		Wide spread flooding due to leveling of surrounding fields with no provisions for drainage.		Moriel, Jim	
V	Sulpher Springs Creek	Sulpher Springs Creek	A	216	216	BN	2	Benicia Industries, Southern Pacific RR, Exxon	Extensive property damage to industries in the flood plain in	Inadequate culvert and bridge capacities. Inadequate channel capacity. Vegetative growth and debris in the channel.		Benicia	Improvements were made and debris was cleared from bridges near and upstream of industrial area after 1986.
V	Vallejo	Homeacres	A	268				First Baptist Church - Homeacres	Sheet flow across parking lot		during large storms, 1-2 hours sheet flow	Gant, Reverend	
V	Vallejo	Homeacres	A	269				Carott lane	Water can't get to city culverts		medium to large events stays flooded 4-8 hours	Suthards, Burle	
V	Vallejo	Homeacres	A	272				Homeacres	Standing water	Poor drainage		Stevens, Delores	
M	Barker Slough	Barker Slough	A	113	113			Meridian Rd and McCrory Rd		Siltation from surrounding drainage needs maintenance.		Mason, Roy	
M	Barker Slough	Barker Slough	A	124	124			Bottom of Noonans Drain, northern side of SPRR	Ponding, Erosion	Noonan drain to Barker Slough inadequate at railroad.	Peak storms	Dally, Rush	
M	Rio Vista	Rio Vista	L	151	151	RV	1	River Rd/Airport Rd		Sacramento River overflow		Rio Vista #1	
M	Rio Vista	Rio Vista	L	152	152	RV	2	City Hall/ Muni Boat Ramp	Boat ramp flooded	Sacramento River overflow		Rio Vista #2	
M	Rio Vista	Rio Vista	L	153	153	RV	3	Edgewater Rd	Flood water rises through stormwater			Rio Vista #3	

Figure 1-1 (included at the end of this document) shows the approximate location of the reported problems. Local problems are shown in blue, area problems in red. The watershed boundaries and problem areas are also shown.

FLOOD PROTECTION AND PROBLEM AREA PRIORITIES

SCWA has already begun to address many of the local drainage problems described above. The next step for SCWA is to look at the entire County with the perspective of developing a comprehensive approach to addressing the larger flood control problems.

SCWA's greatest challenge will be providing protection against localized drainage and regional flooding problems given limited staff and financial resources. Two criteria have been established in this Phase II work to prioritize the problem areas and assign the appropriate level of resources to their solution. These include: 1) the type of flood damage, and 2) the severity and frequency of the damage.

The first criterion is the type of flood damage. The following categories of damage were established in order of relevance to SCWA objectives. Each was assigned a high (H), medium (M), or low (L) rating and used to rank problem areas.

1. Threats to human safety and lives (H)
2. Damage to public works and infrastructure, including water and transportation facilities such as water supply, sanitary sewer facilities, bridges, and roadways (H)
3. Structural damage to residential property (H)
4. Structural damage to businesses (including farms) (H)
5. Sediment deposition in channels and marshlands (M)
6. Erosion of channels and agricultural land (M)
7. Degradation of water quality (M)
8. Impact to agricultural production (M)

For SCWA, the greatest concern is the impact of flooding to human safety and lives. SCWA is also concerned with the protection of property and the natural resources within the County. However, these categories have been defined at a lower priority to SCWA because they are the responsibility of individual property owners, or the primary responsibilities of other agencies.

The first three categories are related to human health and safety, and are therefore given a high rating. The fourth category, structural damage to business, is also rated high because of the potentially high economic losses. The next three categories (5-7) are related to the environment and natural resources in the County. These are not issues that SCWA has been directly involved with in the past, but they are becoming increasingly important as the problem severity worsens and public concern grows. The eighth category, impact to agricultural production, is given a medium rating because damage is usually of a temporary nature.

The second criterion for setting problem priority is related to the frequency and severity of damage. The following goals were established for each damage category listed in the first criterion. The problem areas have been rated on whether the corresponding goal is met. If the goal is not met, or hardly ever met, it is rated high (H). If the goal is routinely met or exceeded, it is rated low (L). Medium (M) ratings are given for goals sometimes met.

1. The 10-year frequency storm event should not affect human safety. Ten-year storm event floodwaters should not cause major public roads to be closed to emergency response vehicles. The 100-year storm event should not threaten human lives.
2. Public infrastructure is designed for different storm recurrence intervals. Floods less frequent than the intended design should not impede the intended use of the facility.
3. The 10-year storm should not damage homes.
4. The 10-year storm should not damage businesses
5. Sediment deposition in channels should not reduce channel capacity below its design capacity. Sediment deposition in managed wetlands should not exceed expected natural rates or volumes.
6. Erosion should not threaten residential or business structures or degrade property value.
7. Runoff water quality should meet current and projected state and federal requirements.
8. The 10-year storm runoff should drain from agricultural land before crop damage occurs. This is generally 24 to 48 hours; see Table 1-2 for flooding impacts on specific crops.

Table 1-2. Flooding Impact on Crops

Alfalfa Hay. The following is an approximate damage estimate once the plant starts to break dormancy (beginning at the end of January for most varieties grown in Solano County): • After 0 to 24 hours of standing water, root rot (fungal disease) and crown rot occurs up to total crop yield failure • After 24 to 36 hours of standing water, suffocation and plant death occurs.
Irrigated Pasture. There has been little to no research done in regards to flood tolerance of the various irrigated pasture clovers and grasses. In general, when dormant (January to February), pastures can tolerate flooding for up to a week or more and come back with little or no trouble. Experience has shown that starting in March, flood tolerance decreases as follows: • After 0 to 24 hours of being flooded or submerged, plants will recover. • After 24 to 48 hours of being flooded or submerged, plants are weakened sufficiently to cause weed infestation problems and production yield is reduced.
Orchard and Vineyard Crops. The following is an approximate order that orchard and vineyard crops can withstand flooding during the growing season which begins February 15th for Almonds and March 1st for other tree crops.

Table 1-2. Flooding Impact on Crops, Cont'd.

1. Pear (most tolerant of flooding) 2. Grapes 3. Prunes 4. Walnuts 5. Almonds 6. Cherries (least tolerant of flooding) • After 0 to 24 hours of standing water, there is not tree damage. • After 24 to 48 hours of standing water, loss of feeder roots occurs resulting in reduced production yield. • After 48 to 72 hours of standing water, root rot (fungal disease) starts occurring , up to total crop failure. • After 72 hours or more of standing water, suffocation and tree death occurs.
Sugar Beets. There has been little or no research done in regards to flood tolerance of sugar beets. In general, when water temperature is low (January to February), sugar beets can tolerate flooding for up to a month and come back with little trouble. Experience has shown that starting in March, water temperature increases and flood tolerance decreases as follows: • After 0 to 24 hours of being flooded or submerged, plants will recover. • After 24 to 48 hours of being flooded or submerged, plants are weakened sufficiently to cause production yield reduction, Plant death can occur at anytime thereafter.
Wheat • After 0 to 24 hours of being flooded or submerged, no damage. • After 24 to 48 hours of being flooded or submerged, plant will recover, but production yield is reduced. • After 48 to 72 hours of being flooded or submerged, noticeable death of leaves and plant damage and production yield is severely hurt. • After 72 to 96 hours, crop failure and plant death will occur.
Barley. Similar to wheat, but more sensitive to flooding. • After 0 to 24 hours flooded or submerged, no damage occurs. • After 24 to 48 hours flooded or submerged, the plant will recover, but production yield is reduced. • After 48 to 72 hours noticeable death of leaves and plant damage occurs and yield is severely hurt. • After 72 to 96 hours of standing water, total crop failure and plant death occurs.
Fallow Agricultural Ground (Tomatoes and Corn). Fallow ground is usually planted to tomatoes or corn. The following dates are dates that the Solano County farmers and the contracting canneries are trying to plant their corps by . Estimated dates were selected based upon average farming practices and crop varieties currently being grown in Solano County. Bottom-line, the longer water stands on a field, the longer it will take on the other end of the time line to get into the field to plant. This in turn effects harvest time and cannery processing schedules and profit margin – domino effect. • Tomato planting date by February 15th to March 15th. • Corn planting date in March.

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These two criteria—type of damage and severity and frequency—and their rating categories were used to rate the type of damage and frequency and severity of the damage in each problem area. Table 1-3 shows the problem areas with their ratings and an overall rating.

Rating:
D = Type of flood damage
F = Frequency/severity of damage
O = Overall rating

Table 1-3. Problem Areas

Region	Watershed	Problem Area	Description	Rating D	Rating F	Rating O
S	Freeborn Creek	Freeborn Creek	• Sediment is deposited in the lower reaches of the creek.	M	L	M
	American Canyon Creek	American Canyon Creek	• Watershed has high sediment production due to large scale land movements, channel bank failure, and conversion from oak woodland and native grasses to annual grasses and intensive cattle grazing. • The change in dredging frequency in the Suisun Marsh has made the effect of silt in the Marsh more noticeable. • Construction of I-80 has concentrated drainage in locations creating large gullies contributing sediment to American Canyon Creek. • Reservoir on East Fork of Lynch Canyon tributary, shows signs of gully erosion on the spillway, high flows and sediment loads will result should erosion lead to reservoir failure.	M	H	H
	Jameson Canyon Creek	Jameson Canyon Creek	• Sediment is deposited in the lower reaches of the creek.	M	H	H
	Green Valley Creek	Upper Green Valley Creek	• Volkhardt drain is overgrown with vegetation. • Portions of Green Valley Country Club Estates, downstream of the confluence of Green Valley Creek and Wild Horse Creek, lies within the 100 year floodplain. • Green Valley Rd. and Rockville Rd. flood.	H	L	M
		Lower Green Valley Creek	• Sediment is deposited in the lower reaches of the creek. • Sediment is filling drainage structures in lower watershed. • High annual maintenance and reduction of flood control.	M	H	H
	Dan Wilson Creek	Dan Wilson Creek	• Suisun Valley Road floods south of Suisun Creek. • Rockville Road and Rockville Cemetery flood.	L	M	L
	Cordelia Slough	Cordelia Slough	• Sediment has deposited in slough impacting managed wetlands.	M	H	H
	Suisun Creek	Suisun Creek	• Flooding below I-80. • Levee break south of SPRR • Willota Oaks Subdivision in danger of flooding.	H	M	H
	Ledgewood Creek	Upper Ledge-wood Creek	• Ledgewood Creek and Gordon Valley Creek overtop. • Vineyards and Clayton Road flood.	M	H	M
		Lower Ledgewood Creek	• Ledgewood Creek overtops and floods Ledgewood Rd, Abernathy Rd and Mankas Corner Rd. • COE study for Fairfield streams indicates Ledgewood Creek bifurcates sending 2500 cfs towards I-80. Fairfield believes that structures are being built and flood insurance premiums are being paid based on an incorrect 100 year flood plain.	H	M	H
U	McCune Creek	Winters Road	• Winters Road is low relative to surrounding property in many places; old railway crossing, old plant and dips. • Land leveling has left the roadway low with no outlet. • Field leveling and preparation, and herbicide practices have increased runoff. • Orchards flood.	M	M	M

Table 1-3. Problem Areas, Cont'd.

Rating:
D = Type of flood damage
F = Frequency/severity of damage
O = Overall rating

Region	Watershed	Problem Area	Description	Rating D	Rating F	Rating O
		Wolfskill	• Halley and McCune Roads flood. • Ditches are filled in with silt. • Channels are inadequate. • SID Canals have blocked drainage in some areas. • Property and orchards flood.	H	M	H
		Halley Road	• Halley Road is frequently flooded. • Field and pasture flooding. • Structures flood in Kobert Rd. area.	H	M	H
		Farmer's Drain	• Orchard and field flooding.	M	M	M
	Sweeney Creek	Allendale Road	• Inadequate capacity of water course along Allendale Rd, a tributary to Sweeney Creek? • Classify above with Sweeney above Putah and below Timm Rd.	M	H	M
		Above Timm Road	• Extensive creek bank erosion in the English Hills along Sweeney Creek, English Creek and a tributary to Sweeney Creek.	L	M	M
		PCS to Timm Road	• Sweeney Creek capacity is reduced by vegetation. • Debris dams in Sweeney Creek have caused flooding. • 5' culvert crossing at Timm Road backs up Sweeney Creek. • Widespread flooding in the areas of Timm Rd. and Shawn and Heather Lanes. • Structures close to waterways are frequently flooded.	H	H	H
		Ulatis Project to PCS	• Channel capacity reduced by vegetation growth. • I-505 crossing may be under capacity.	H	H	H
		Lower Sweeney Creek	• Beaver dams on Sweeney Creek.	L	L	L
	Gibson Canyon Creek	Gibson Canyon Creek	• Septic system problem • Local properties flooded	H	M	M
	Horse Creek	Horse Creek	• Interior drainage is surcharged when water level in Horse Creek is high.	H	H	H
	Ulatis Creek	Ulatis Creek	• The Ulatis Creek channel has high flooding potential with ten year events. • The channel overtops where the banks are low. • Interior drainage is surcharged when Ulatis Creek is high. • Homes and property are flooded.	M	M	M
	Alamo Creek	Alamo Creek	• The Alamo Creek channel has a less than ten year level of protection within the urban area. • The channel overtops where the banks are low. • Interior drainage is surcharged when Alamo Creek is high. • Homes and property are flooded.	H	H	H

Table 1-3. Problem Areas, Cont'd.

Rating:
D = Type of flood damage
F = Frequency/severity of damage
O = Overall rating

Region	Watershed	Problem Area	Description	Rating D	Rating F	Rating O
D	Dixon	Batavia	• Increased runoff due to changes in agricultural practices. • Land leveling has eliminated drainage outlets. • Area fields drain to Olsen drain which has a low outlet to the Ulatis Flood control project, preventing drainage when flows are high in the project; also culverts along Olsen drain are under capacity. • Agricultural lands flood, County roads are inundated in several locations, homes in flood danger.	H	M	M
		City of Dixon	• Ongoing disagreement between City of Dixon and DRCD related to responsibility for and equitable solutions to needed downstream improvements. • City retention Basin A creates high groundwater problems.	L	L	L
		North of Dixon	• Increased runoff due to changes in agricultural practices. • Area lacks adequate drainage facilities. • Agricultural land and County roads flooded.	L	M	L
		Milk Farm	• Increased runoff due to changes in agricultural practices. • Area lacks adequate drainage facilities. • Land leveling has eliminated drainage outlets. • Agricultural land and County roads flooded.	L	M	L
		Northeast of Dixon	• Increased runoff due to changes in agricultural practices. • Area lacks adequate drainage facilities. • Agricultural land and County roads flooded.	L	M	L
		East of Dixon	• Increased runoff due to changes in agricultural practices. • Agricultural lands and County roads are flooded.	L	M	L
		South of Dixon	• Increased runoff due to changes in agricultural practices. • Agricultural land and County roads flooded.	L	M	L
		Maine Prairie	• Area is downstream of a large drainage area that has increased runoff due to agricultural practices. • Area floods when DRCD system is over capacity. • Agricultural land and County roads flooded.	L	H	M
		RD2068 Main	• Area is downstream of a large drainage area that has increased runoff due to agricultural practices. • Area floods when DRCD system is over capacity. • Agricultural land and County roads flooded.	L	H	M
		Hass Slough	• Sediment has deposited in slough. • Area is downstream of a large drainage area that has increased runoff due to agricultural practices.	L	H	M
		Cache Slough	• Sediment has deposited in slough. • Dixon Boat Club facilities flood.	M	H	M

Rating:
D = Type of flood damage
F = Frequency/severity of damage
O = Overall rating

Table 1-3. Problem Areas, Cont'd.

Region	Watershed	Problem Area	Description	Rating		
				D	F	O
	Yolo Bypass	RD2068 East	• Runoff has increased due to agricultural practices. • Area drains to Yolo bypass, flooding is exacerbated with high flows in the Bypass. • Agricultural land on County roads flooded.	L	H	M
		RD2068 to PS5	• Drains are pumped to Yolo Bypass, flood water is detained during high tide.	L	L	L
	Putah Creek	Putah Creek	• County roads flood. • Land leveling has left roadways lower than surrounding property.	L	M	L
V	Sulphur Springs Creek	Sulphur Springs Creek	• Creek capacity is reduced by vegetation and debris. • Culverts and bridges are inadequate. • High tides in combination with runoff prevent drainage of lower watershed. • Overbank flows cause damage to property and restrict access to entry roads of industrial development in the flood plain, Benicia Industries, Southern Pacific RR, and Exxon have been affected in the past.	H	L	M
	Homeacres	Homeacres	• Road flooding. • Sheet flow over area. • Inadequate drainage facilities.	M	H	M
M	Barker Slough	Barker Slough	• Sediment has deposited in slough. Hwy 113 is subject to flooding.	L	M	M
	Rio Vista	Rio Vista	• Sacramento River overflow floods areas along river and surcharges interior drainage	H	L	M