## How Does Your Stream Go Dry?

Monthly Wet-Dry Mapping During the Summer 2015 Drought

Derek Acomb, CDFW Todd Carlin, CDFW Andrew Bartshire, UC Sea Grant Taylor Berryman, Rincon Consultants Inc.



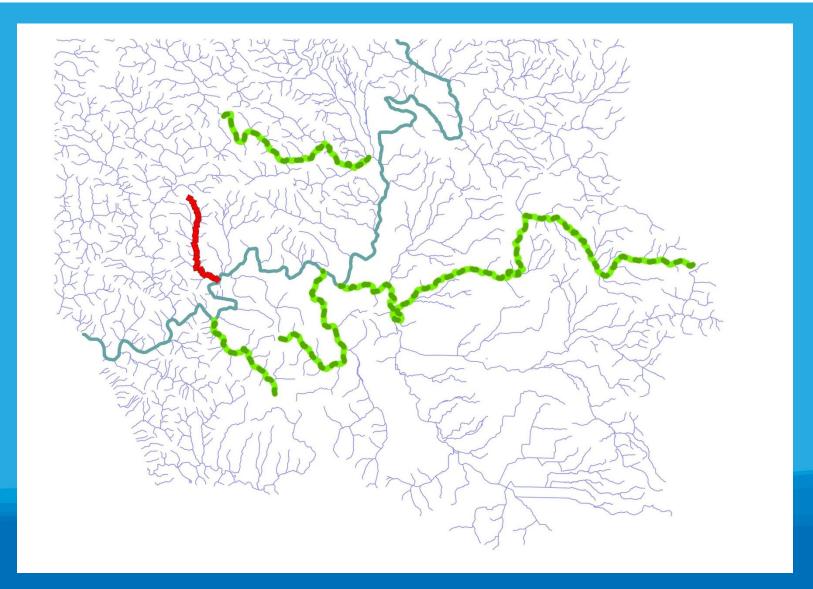
















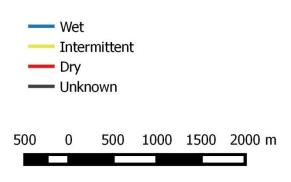






## Hulbert and Mission Creeks

October 22, 2014



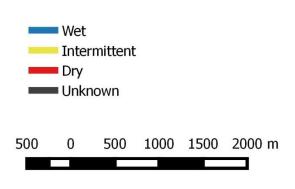






## **Hulbert and Mission Creeks**

September 18, 2015



Page\_of\_

Tributary: Date: GPS flow point nomenclature: FL-creek code-flow units-L-flow unit type (MET, INT, DRY, UNK, WTP)-year (YY)

Crew: Weather: EXAMPLE 8: FL-DUT1LDRY14; FL-DUT1AW/TP14; FL-DUT2LWET14; FL-DUT3LINT14; FL-DUT4LUNK14

Start Time: End time: Flow Unit Definition = at least 150 ft of similar flow. WET = continuous or limited flow disconnectivity;

Start Point: INT = series of disconnected wet units; DRY = no flow and/or series of residual, uninhabitable "puddles";
End Point: WYTP = substantial pool in a dry reach (generally a10" L & 1" D or containing salmonids)

nt: VVTP = substantial pool in a dry reach (generally ≥10°L & 1°D or containing salmonids)

VVET TRIBS & SPRING S - number by occurrence on each survey day, ex: FL-MILS1VVET14, FL-VVILT1VVET14

include all marked landmarks on datasheet Number diversions (pumps, wells) and record detailed comments

GP\$ ID	GPS ID Ha bitable ( Y/N) Salmoni ds Observed Temp. (YN) (*C) (m s/cm) (mg/L) COMME		COMMENTS:			
FL-DUT1LWET14	Y	Y	16°			ex. 400' of connected units wideep pools, cover, SH abserved
LM-MIL1PU114			8			ex. pump on RB, active, no screen, 3* pipe
THE PERSON NAMED IN COLUMN NAM		5500	[ ~			** 156*101*101*101*10*** 180*10***************
	3 3		Š.	8	8 3	
	0				J.	
				6	1	
	9		S		8 3	
			(			
	3			2	3 3	
					J.	
			9	i fi	1	
	9		ğ		8 8	
			Ĭ.	-1		
				į.		
	3		ã		3 3	
	3			E.		
				-1		
	3		S		8 3	
	3		Š.		3 3	
					J.	
				Fil	Ĭ	
•	9		S		9 3	
				į.		
					Į,	
•	8 8		ő.	ķ	8	

GPS CODE: LM-CrixResoh#(landmark code)14 / (ex. LM-FRE2PU714)
FB-Full Barrier FG-Flow Gauge PU-Pump PA-Parking LA- Landowner Access
SB-Suspected Barrier BG-Bridge RS-Restoration RX-Road Xing WE-Well M.S-Misc.





		I	LABIT	ATINVI	ENTORY	DATA		Form #			
Date	- Davis	V							R	of	
Date / Stream Name:								T:	100	2:	
Surveyo	CS:	250 - 250F			1	Lat			Long		
Quad:	T W A W		Channe	1 Type:		ach:	BFW:		@HU:	-	
Time:	H <sub>2</sub> OF:	Air F		Flow:	27	Length:	-	Total I	ength:	_	
	Unit Number					- 30	-0		23	_	
Habitat .	Unit Type		11 12	-		- 23	-		10	3	
	annel Type					20			100		
Mean L Mean V										+	
			Q 32	- 3	- 30	- 2	33	- 1	99	9	
Mean D			8 8			- (3)	3	_	20	1	
	m Depth		9 8			- 83			3		
	ool Tail Crest			$\vdash$						_	
	Embeddedness		ğ <u>Ş</u>	- 31	300	- 23	33	10	93	3	
	Substrate		3 8	- 4	- 1	- 100	13		33	3	
	ownt D>-1&L6to20		3			20			92		
LWDC	ownt D>1&L>20										
- 10	Shelter Value	1	ğ (Ş	38	10	(5)	33	S.	8	9	
	% Unit Covered		3 2	- 7	- 13	- 20	3		33	9	
Steller Rating	% undercut bank		S 8		- 5	53	2		2	3	
	% swd (d<12")		2 3	- 3	10	(3)	93	100	8	9	
	% Inrd (6-12")										
1	% root mass		8 8	1 1		- 83			8 1	8	
-	% terr, vegetation		S 33	36	45	333	3	S	2	34	
58	% aqua. vegetation		ă S	398	300	(3)	38	100	8	9	
	% bubble curtain										
	% boulders		8	1 1		8			8	ŝ.	
	% bedrock ledges		ğ - 9	38	- 18	- 93	3	100	(S)	3	
12	A) Sih Clay				- 18	- 12	A	14			
Sule trate Composition Most Dominant	B) Sand										
	C) Gravel (0.08-25")		Q 39		- 10	- 18	.33	1			
東島県	D) Sm Cobble						33				
200	E) Lg Cobble (5-10")					38			34		
2 20	F) Boulder (>10")										
	G) Bedrock				- 10	- 12	3		133		
	Exposed Substrate		8 2			- 23	30		3		
	Total Canopy					18		i i	8		
	ardwood Times										
% C	oniferous Trees		8 8		1	- 83			33		
Bank Composition & Vegetstion	Rt Bk Composition		6 6			- 9	34	10	18		
										1	
	% Rt Bk Vegetated		S 10	388	18	183	82	10	8	0	
	Lft Bk Composition		8 77			72	9		35	9	
	Lft Bk Dominant Vg		1 8			8			2	9	
	% Lft Bk Vegetated			1	_					1	
Bank Composition Types		Other	nts: Stru	octures Cha	and Diver	sions Tribs I	Erosion Biot	a Passag	e Access	GPS	
1) Bedrock			, 15	0.0	100	100	79	100	677	94	
2) Boulder											
3) Cobble Gravel		]									
4) Silt Clay Sand											
Vegetation Types											
5) Grass										1	
6) Brush											
	wood Trees										
3) Coniferous Trees							1	L		1	
9) No Vegetation		. 1		1 1	100		100	1			





- Keep It Simple
- Refine Your Process
- Work Is More Fun With Friends

 It's Amazing What You Will Find When You Get Out There And Look!



Special Thanks: Shane Feirer and Tracy Love











