

Summary of Survey Information for Riparian Vegetation

Table 1. Summary of available riparian survey information from RASES, PFC, and Stream Habitat surveys. Also included is road density (a stressor), for both open and all roads by ERU¹

ERU/Scale	HERB	WTLA	UMCW	NSPR	NSHB	RGCS
PFC Ratings² (P)	PFC – 25 FARU – 8 FARS – 9 FAR – 7 FARD -7	PFC – 13 FARU – 4 FARS – 4 FAR – 0 FARD -1	PFC – 11 FARU – 6 FARS – 6 FAR – 0 FARD -0	PFC – 6 FARU – 2 FARS – 6 FAR – 0 FARD -1	PFC – 1 FARU – 0 FARS – 1 FAR – 0 FARD -0	No Surveys Available
Coarse Woody Debris (pieces per mile)³ (H)	Rio Fernando 0 (see text) ⁴ Comanche Ck 0-3 (see text) McCrystal Ck 2-17 (see text) Rio Costillo 5.7 (see text) Tio Grande 7.13 (see text) Middle Ponil 7.6 (see text) Tanques Ck 22 (see text)	Middle Ponil 0.5 (NPF) Comanche Ck 1.8 (NPF) Canjilon Ck 7.33 (NPF) La Cueva Ck 20.82 (FAR) Rio Fernando 36 (PF) Yerba Ck 57.13 (PF) Italianos Ck 60 (PF) Sawmill Ck 117.65 (PF)	Tio Grande 1.14 (NPF) Agua Caliente 21.42 (FAR) Rito de la Olla 30 (PF) R.G.d. Rancho 92 (PF) Rio Chiquito 818.23 (PF)	Capulin Ck 0.67 (NPF) Manzanita Ck 8.66 (NPF) Rio Fernando 73 (PF) Yerba Ck 86.95 (PF)	Rito de la Olla 26 (FAR) R.G.d. Rancho 68-287 (PF) Rio Chiquito 91-451 (PF) Rio Fernando 365 (PF)	No Surveys Available
Veg Ground Cover Percent Departure (T)	-16.08%	-20.01%	-18.53%	-11.70%	-14.67%	-69.34%
Channel Organic Debris Rating⁵ (number of transects) (R)	N/A	A-3 B-7 C-3	B-8 C-11 D-2 E-1	B-7 C-4 D-5	B-21 C-10 D-5 E-1	B-3 C-1

¹ Data source codes: R = RASES; P = PFC; H = Stream Habitat Surveys; T = TES; G = Carson NF GIS/Motor Vehicle Use Map

² PFC = Proper functioning condition; FAR = Functioning at risk, Trend not assessed; FARU = Functioning at risk, Upward trend; FARS = Functioning at risk, Stable trend; FARD = Functioning at risk, Downward trend.

³ Ratings are reported for stream segments that could be linked to one riparian ERU. Ratings are from Stream Habitat Inventories (2001-2005). Rating abbreviations: PF – Properly Functioning (>30pieces/mi, >12” diameter, >35ft inlength), FAR – Functioning at Risk (20-30 pieces/mi), NPF – Not Properly Functioning (<20 pieces per mile). Lack of LWD is not outside the reference condition for Herbaceous Riparian.

⁴ Coarse woody debris is not characteristic in HERB.

⁵ Channel Organic Debris Rating Code Descriptions: A-No Debris; B- infrequent debris; consists of small, floatable organic debris; C- moderate frequency, mixture of small to medium size debris; affects < 10% of active channel area; D- numerous debris, mixture of medium to large sizes, affects up to 30% of active channel area; E- debris dams predominantly large material, affects > 30% of active channel area and often occupying the total width of the stream; F- extensive large debris dams either continuous or influencing > 50% of channel area; forces water onto flood plain even with moderate flows; generally presents fish migration barrier.

ERU/Scale	HERB	WTLA	UMCW	NSPR	NSHB	RGCS
Overstory Similarity to Site Potential (R, T)	N/A	▲ Conifer Species (spruce +10,000% fir +14,500%) ▼ Carex (-94%) ▼ Juncus (-100%)	▲ Conifer Species (spruce +305% fir +10,100%) ▲ Alder (+780%) ▼ Carex (-93%)	▲ Willow (+750%)	▼ Cottonwood (-73%) ▲ Willow (+650%)	▼ Cottonwood (-32%) ▼ Willow (-44%) ▲ Juniper (+3500%) Average # of canopy levels = 1.52
Similarity to Site Potential (T)	37% (moderate similarity)	19% (low similarity)	55% (moderate similarity)	59% (moderate similarity)	53% (moderate similarity)	32% (low similarity)
Percent Shade over Water (R)	36%	35%	57%	67%	59%	3%
Beaver Activity (percent of sites = sites with a particular activity level/total number of sites) (R)	N/A	100% (16/16) No activity	76% (26/34) No activity 9% (3/34) inactive dam, stream effects 15% (5/34) active dam, little effect	50% (2/4) No Activity 25% (1/4) Old activity, little effect 25% (1/4) inactive dam, stream effects	77% (17/22) No Activity 9% (2/22) Active dam, little effect 14% (3/22) active dam has affect	100% (12/12) No Activity
Perennial Bunch Grass/Sod Forming Grass Ratio⁶ (R)	27:28	0:7	9:9	1:9	6:22	4:0
Rosgen Rating⁷ (R)	A-10 (3,2) B-37 (3,2,4,1) C-12 (1,2,3,4) G-3 (3,5)	A-6 (3,4) B-2 (3,4) C-2 (2,4) D-1 (1) E-1 (3)	A-4 (3,2,4) B-14 (3,2,4) C-1 (3) G-3 (3,4)	A-7 (3,2) B-9 (3,2,1)	A-7 (4,3) B-20 (2,3,1,4) C-8 (1,2,3,4)	B-3 (2,3,4) C-2 (4,5)
Road Density (miles/square mile) open (all) (G)	1.4 (3.4)	3.9 (5.7)	6.0 (8.2)	1.7 (2.5)	2.5 (6.8)	1.7 (3.3)

⁶ Ratio of number of surveys recording riparian vegetation class 3 (perennial bunch grass) to number recording riparian vegetation class 4 (sod forming grass) (RASES).

⁷ Letters refer to Rosgen stream type classification followed by number of surveys. Numbers in parentheses represent the channel material codes, ordered by frequency observed (1:bedrock, 2:boulders, 3:cobble, 4:gravel, 5:sand, 6:silt/clay)(Rosgen and Silvey 1998).

