

Figure 1.

Illinois River Watershed - Vegetation/Climatic Zones

Idealized Landscape Profile

(looking north - not to scale)

(Gene Hickman; USDA-NRCS; May, 1997)

Southern Coastal Mountains

Siskyou Mtns.

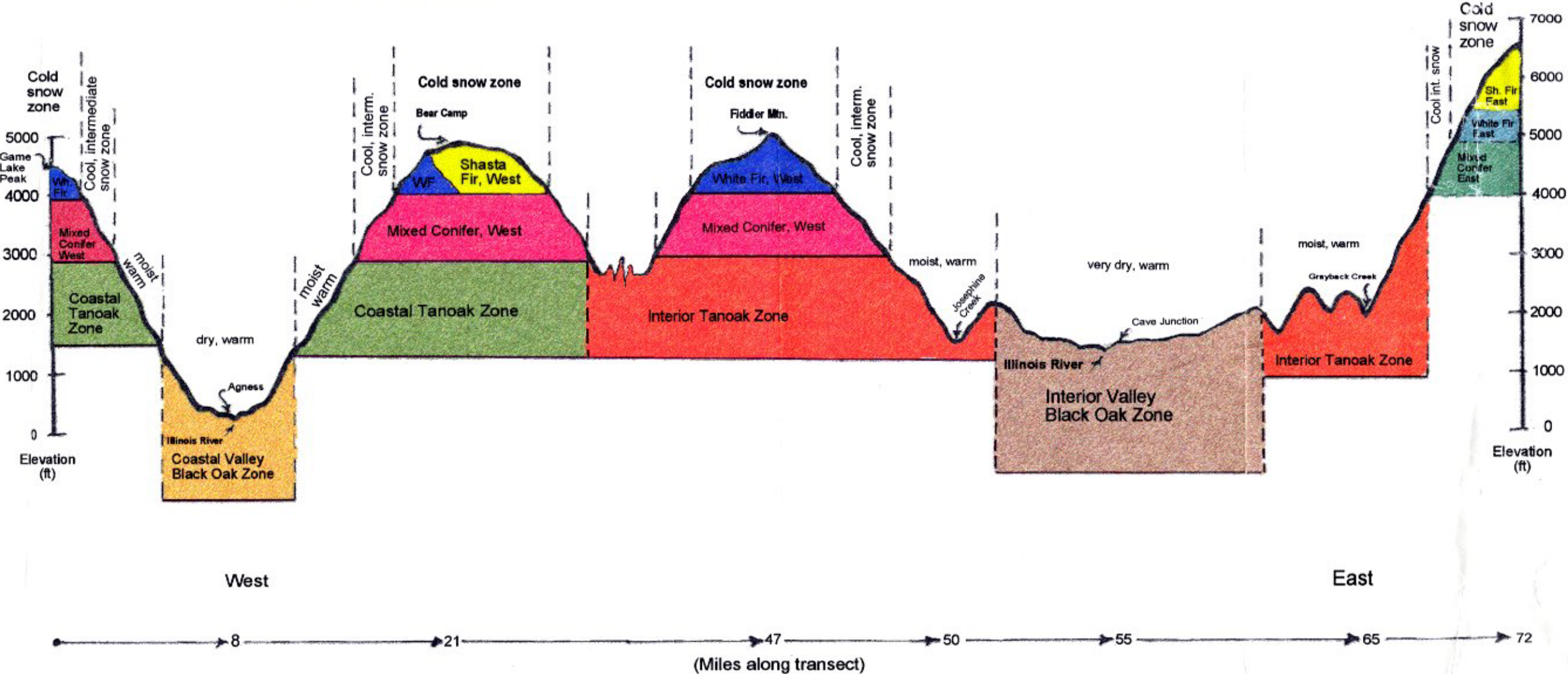


Table 1 VEGETATION / CLIMATIC ZONE CHARACTERISTICS - ILLINOIS RIVER WATERSHED (Southwest Oregon Basin)

TABLE 1

Compiled by Gene Hickman - NRCS - November, 1998 (Data Source: NRCS & USFS staff)

SUBJECT / ZONE	Interior Valley	Coastal Valley	Interior Tanoak	Coastal Tanoak	Lower Illinois River Canyon	Cool Western Hemlock	Cool Mixed Conifer, West	Cool Doug.fir Chinkapin	Cool Mixed Conifer, East	Cold White Fir, East	Cold White Fir, West	Shasta Fir, West	Shasta Fir, East
Watershed Acres (approx)	84,800	10,000	264,000	65,000	10,700	6,200	101,500	8,300	33,500	11,000	18,000	4,400	11,100
Watershed Composition, %	13.5%	1.6%	42.0%	10.3%	1.7%	1.0%	16.2%	1.3%	5.3%	1.7%	2.9%	0.7%	1.8%
Elevation Range (feet)	1200-3000	200-1600	600-4000	400-2800	400-1600	2800-4000	2800-4000	2600-4000	3600-4800	4800-5400	3900-5300	3900-5300	5200-6800
Climate:								cold air pool					
Precip. est. (inches)	45-60	80-90	50-100	90-130	90-120	90-110	60-120	50-70	50-75	70-80	70-140	120-140	70-80
Ppt. Primary Form	rain	rain	rain	rain	rain	rain, snow	rain, snow	rain, snow	rain, snow	snow	snow	snow	snow
Soil Moisture Regime	xeric	udic/xeric	xeric	udic	udic	udic	xeric	xeric	xeric	xeric	xeric	udic	udic
Soil Temperature Regime	mesic	mesic	mesic	mesic	mesic	frigid	frigid	frigid	frigid	cryic	cryic	cryic	cryic
Growing Season for Grass	Feb-Nov	Feb-Nov	Mar-Nov	Feb-Nov	Feb-Nov	Apr-Oct	Apr-Oct	Apr-Oct	Apr-Oct	May-Sept	May-Sept	June-Sept	June-Sept
Season of Use (deer)	yearlong	yearlong	yearlong	yearlong	yearlong	spring-fall	spring-fall	spring-fall	spring-fall	June-Oct	June-Oct	June-Oct	June-Oct
Wildfire Potential:													
Typical Season	lt. May-Oct	June-Oct	June-Oct	June-Oct	June-Oct	June-Oct	June-Oct	June-Oct	June-Oct	lt. July-Sept	lt. July-Sept	lt. July-Sept	lt. July-Sept
Relative Risk (avg.)	high	high	high	moderate	high	moderate	high	high	high	low	low	low	low
Historic Fire Return for:													
Low Intensity Burns, yrs	1-20	1-20	20-50	40-50	40-50	30-70	30-70	30-70	30-70	40-90	40-90	40-110	40-110
Stand Replacement, yrs	100-250	100-250	150 - 300	200-400	200 - 400	200-300	200-300	200-300	200-300	200-300	200-300	200-300	200-300
Weed Potential (annuals):	high	med-high	medium	medium	medium	low	low	low	low	low	low	low	low
Forestry (ratings for non-restrictive soils):													
Productivity	medium	medium	med-high	high	med-high	medium	medium	medium	medium	low	low	low	very low
Plantation Problems	mod-high	low-mod	moderate	low-mod	moderate	low-mod	moderate	moderate	moderate	high	high	high	high
Evergreen Shrub Compet.	mod-high	high	mod-high	high	high	high	high	high	mod-high	moderate	moderate	low	low
Deciduous Shrub Compet.	high	high	high	low	low	low	low	low	low	low	low	low	low
Common Trees, non-riparian:													
Conifer:	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Sh. red fir	Sh. red fir
	pond. pine	pond. pine	sugar pine	su.pine, minor	sugar pine	west. hemlock	Pacific yew	sugar pine	white fir	white fir	white fir	white fir	white fir
	sugar pine	sugar pine	pond. pine	P. Orf. cedar	Jeffrey pine	white fir	P. Orf. cedar	incense cedar	incense cedar	incense cedar	incense cedar	white pine	mtn. hemlock
	incense cedar	incense cedar	Incense cedar				sugar pine		sugar pine				white pine
	Jeffrey pine	Jeffrey pine	Jeffrey pine				incense cedar		Brewer spruce				
Hardwood:	Pac. dogwood	r.alder, seral	r.alder, seral	r.alder, seral	r.alder, seral	chinkapin	chinkapin	chinkapin	chinkapin	R. Mtn. maple	R. Mtn. maple	R. Mtn. maple	R. Mtn. maple
	black oak	black oak	black oak	Pac. dogwood	black oak	(minor)	(minor)	(minor)	(minor)				
	madrone	madrone	madrone	madrone, south	madrone								
	white oak	white oak	tanoak	tanoak	tanoak								
	bigleaf maple	Calif. laurel	c. live oak	c.l.oak, stony	Calif. laurel								
	can. live oak	c.l.oak, stony	chinkapin	bigleaf maple	c.l.oak, stony								
			chinkapin										
Common Riparian Trees:	white alder	red alder	red alder	red alder	red alder	Pacific yew	Pacific yew	Pacific yew	Pacific yew	sitka alder	sitka alder	sitka alder	sitka alder
	white oak	Calif. laurel	white alder	Calif. laurel	Calif. laurel	bigleaf maple	bigleaf maple	bigleaf maple	bigleaf maple				
	bl.cottonwood	P. Orf. cedar	P. Orf. cedar	P. Orf. cedar	P. Orf. cedar	P. Orf. cedar	P. Orf. cedar	P. Orf. cedar	P. Orf. cedar				
	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir	Douglas-fir				
	bigleaf maple	bigleaf maple	bigleaf maple	bigleaf maple	bigleaf maple				Sitka alder				
	willow	cascara	cascara	cascara	cascara								
	incense cedar		incense cedar										
	pond. pine												
	Oregon ash												
Common Brushfield Shrubs:	com.snowberry	c. live oak	salal	salal	salal (?)	salal	salal	salal	b.huckleberry	b.huckleberry	b.huckleberry	b.huckleberry	b.huckleberry
(non-serpentine soil)	hoa.manzanita	hoa.manzanita	hoa.manzanita	hoa.manzanita	hoa.manzanita	tanoak	com.snowberry	com.snowberry	com.snowberry	w.princespine	w.princespine	w.princespine	w.princespine
	wed.ceanothus	tanoak	tanoak	tanoak	tanoak	sadler oak	sadler oak	sadler oak	sadler oak	sadler oak	sadler oak	sadler oak	sadler oak
	serviceberry	ev.huckleber.	ev.huckleber.	ev.huckleber.	ev.huckleber.	gr. manzanita	gr. manzanita	gr. manzanita	oceanspray	gr. manzanita	gr. manzanita	gr. manzanita	gr. manzanita
	poisonoak	poisonoak	deerbrush	rhododendron	madrone, south	rhododendron	rhododendron	rhododendron	rhodod.	gooseberry	gooseberry	gooseberry	gooseberry
	madrone	madrone	snowbrush	snowbrush	snowbrush	snowbrush	snowbrush	snowbrush	snowbrush	snowbrush	snowbrush	snowbrush	snowbrush
	oak (all spp)	black oak	poisonoak	Cas.Oregongr.	r.huckleberry	Cas.Oregongr.	Cas.Oregongr.	Cas.Oregongr.	Cas.Oregongr.	Cas.Oregongr.	Cas.Oregongr.	C.Oregongrape	dwarf bramble
	hazel	hazel	com.snowberry	r.huckleberry		r.huckleberry	r. huckleber.	r. huckleber.	r. huckleber.	chinkapin	chinkapin	chinkapin	
		deerbrush		madrone, south		chinkapin	chinkapin	chinkapin	chinkapin				
						tanoak							

Table 2. LANDSCAPE STATISTICS AND ZONE ACREAGES FOR SUBWATERSHEDS - ILLINOIS RIVER WATERSHED (Southwest Oregon Basin)

TABLE 2

Compiled by Gene Hickman - USDA NRCS - November, 1998 *

SUBJECT/SUBWATERSHED	Watershed	Deer	Sucker	Althouse	East Fork	West Fork	Rough &	Josephine	Mainstem	Briggs	Silver	Indigo	Collier	Lawson
	Totals	Creek	Creek	Creek	Illinois	Illinois	Ready	Creek	Illinois River	Creek	Creek	Creek	Creek	Creek
Watershed Acres (approx)	628,500	72,000	61,700	29,350	57,350	53,350	22,950	27,550	113,200	43,400	51,250	48,650	22,700	25,050
% of Illinois Watershed	(100%)	11.5%	9.8%	4.7%	9.1%	8.5%	3.7%	4.4%	18.0%	6.9%	8.2%	7.7%	3.6%	4.0%
Elevation Range, feet		1150-5450	1400-7000	1400-6300	1200-6300	1300-5400	1300-4700	1200-4900	150-5000	900-4600	200-4700	200-5300	300-4600	160-4400
Precipitation (avg), inches		45-60	50-80	45-70	45-70	50-110	55-110	55-120	55-130	60-100	85-115	85-125	100-145	90-115
Proportion of soils from serpentine/peridotite	20-25%	10-25%	<10%	<10%	<10%	35-45%	70-95%	70-95%	10-25%	10-25%	<10%	<10%	10-25%	10-25%
Stream Miles (est.) for:														
Perennial streams	2961	379	285	128	235	256	40	117	566	223	325	203	110	94
Anadromous fish habitat	> 365	57	21	8	21	30	12	51	74	> 28	21	25	8	9
CLIMATIC/VEGETATION ZONES:														
Warm climate-mostly rain,														
low elevation, %	69.1%	84.7%	51.0%	79.8%	67.7%	92.6%	49.7%	63.5%	82.6%	62.0%	52.3%	49.8%	66.1%	57.9%
acres	434,050	61,000	31,500	23,450	38,800	49,400	11,400	17,500	93,600	26,900	26,800	24,200	15,000	14,500
vegetation zones:														
Interior Tanoak	263,500 (41.9)	35400 (49.2)	28000 (45.3)	15720 (53.6)	23900 (41.7)	35100 (65.8)	10000 (43.6)	17500 (63.5)	42150 (37.2)	26900 (62.0)	19200 (37.5)	9625 (20.0)		
Coastal Tanoak	65,175 (10.4)								17000 (15.0)		7300 (14.2)	13325 (27.4)	14650 (64.5)	12900 (51.5)
Lower Il. River Canyon	10,700 (1.7)								10050 (8.9)		300 (0.6)		350 (1.5)	
Coastal Valley Bl. Oak	9,850 (1.6)								7000 (6.2)			1250 (2.6)		1600 (6.4)
Interior Valley B. Oak	84,830 (13.5)	25600 (35.6)	3500 (5.7)	7730 (26.3)	14900 (26.0)	14300 (26.8)	1400 (6.1)		17400 (15.4)					
Cool climate, rain-snow,														
mid-elevation, %	23.8%	12.9%	28.0%	14.2%	21.9%	7.3%	43.1%	22.7%	14.4%	34.3%	40.9%	35.0%	31.3%	40.1%
acres	149,700	9,300	17,300	4,150	12,550	3,900	9,900	6,250	16,300	14,900	20,950	17,050	7,100	10,050
vegetation zones:														
Mixed Conifer, West	101,750 (16.2)	2150 (3.0)				3200 (6.0)	9700 (42.3)	6250 (22.7)	16300 (14.4)	14900 (34.3)	15100 (29.5)	17050 (35.0)	7100 (31.3)	10000 (39.9)
Western Hemlock	6,100 (1.0)						200 (0.9)				5850 (11.4)			50 (0.2)
Mixed Conifer, East	33,500 (5.3)	4050 (5.6)	14200 (23.0)	4150 (14.2)	10400 (18.1)	700 (1.3)								
Douglas Fir-Chinkapin	8,350 (1.3)	3100 (4.3)	3100 (5.0)		2150 (3.7)									
Cold climate, snow zone,														
high elevation, %	7.1%	2.4%	21.0%	6.0%	10.4%	0.1%	7.2%	13.8%	3.0%	3.7%	6.8%	15.2%	2.6%	2.0%
acres	44,750	1,700	12,900	1,750	6,000	50	1,650	3,800	3,300	1,600	3,500	7,400	600	500
vegetation zones:														
White Fir, West	18,850 (3.0)	900 (9.3)					1650 (7.2)	3800 (13.8)	3300 (3.0)	1600 (3.7)	2500 (4.9)	4000 (8.2)	600 (2.6)	500 (2.0)
Shasta Fir, West	4,400 (0.7)										1000 (2.0)	3400 (7.0)		
White Fir, East	10,800 (1.7)	700 (1.0)	6000 (9.7)	1300 (4.4)	2800 (4.9)									
Shasta Fir, East	10,700 (1.7)	100 (0.1)	6900 (11.2)	460 (1.6)	3200 (5.6)	50 (0.1)								

Table 3. OWNERSHIP AND LAND USE DESIGNATIONS (ALLOCATIONS) FOR SUBWATERSHEDS - ILLINOIS RIVER WATERSHED (Southwest Oregon Basin)

Table 3

Compiled by Gene Hickman - USDA NRCS - December, 1998 *

SUBJECT/SUBWATERSHED	Watershed Totals	Deer Creek	Sucker Creek	Althouse Creek	East Fork Illinois	West Fork Illinois	Rough & Ready	Josephine Creek	Mainstem Illinois River	Briggs Creek	Silver Creek	Indigo Creek	Collier Creek	Lawson Creek
Watershed Acres (approx):	628,500	72,000	61,700	29,350	57,350	53,350	22,950	27,550	113,200	43,400	51,250	48,650	22,700	25,050
Ownership (approx):														
Private, acres	112,560	32,450	11,650	10,300	16,340	26,025	450	35	12,575	2,325	140	20		250
% of watershed:	17.9%	45.1%	18.9%	35.1%	28.5%	48.7%	1.3%	0.1%	11.1%	5.4%	0.3%	0.04%		1.0%
USFS, acres	445,510	7,925	43,800	13,650	35,975	21,100	22,020	27,070	94,300	41,075	42,735	48,360	22,700	24,800
% of watershed:	70.9	11.0%	71.0%	46.5%	62.7%	39.9%	96.7%	98.3%	83.3%	94.6%	83.4%	99.4%	100.0%	99.0%
BLM, acres	66,300	30,050	5,735	4,760	4,990	5,325	450	425	5,925		8,375	265		
% of watershed:	10.5%	41.7%	9.3%	16.2%	8.7%	9.9%	2.0%	1.5%	5.2%		16.3%	0.5%		
National Monument, acres	480		480											
% of watershed:	0.1%		0.8%											
State, County, acres	3,650	1,575	35	640	45	900	30	20	400			5		
% of watershed:	0.6%	2.2%	0.06%	2.2%	0.08%	1.6%		0.07%	0.4%			-		
Private Land Use Summary														
Total Private acres:	112,560	32450	11650	10300	16340	26025	450	35	12575	2325	140	20		250
% of all private:	(100%)	28.9%	10.3%	9.2%	14.5%	23.1%	0.4%	0.1%	11.2%	2.1%	0.1%	tr		0.2%
Urban, indus. farmstead, rural homes (est)	3,470 (3.1)	750	275	250	940	675	5		575					
Cleared for agriculture (dry, irrig, idle) (est)	16,600 (14.7)	5000	1225	3150	3400	1550	75		2200					
Range, non-comm. forest, riparian (est)	12,290 (10.9)	1700	1650	1900	2000	2800	220	35	1800	25	140	20		
Timber Mgt. Base (comm. forest potential - est)	80,200 (71.3)	25000	8500	5000	10000	21000	150		8000	2300				250
Federal Land Use Summary														
Total Federal ** acres:	512,170	37275	49815	18410	40965	27025	22650	27495	100225	41075	51110	48625	22700	24800
% of all federal:	(100%)	7.3%	9.7%	3.6%	8.0%	5.3%	4.4%	5.4%	19.6%	8.0%	10.0%	9.5%	4.4%	4.8%
Wilderness	68,975 (13.5)		2900		5400		2300		41950				16425	
Back Country Recreation	32,530 (6.3)		2200		630				17500	725	7075	750	100	3550
Wild River	2,255 (0.4)								2100	10	40	45		60
Scenic/Recreation River	2,570 (0.5)							30	2515	25				
Research Natural Area	3,765 (0.7)	1475	325			265			1200		500			
Admin. Study Area	18,440 (3.6)					2120	11150	5170						
Area Critic Env. Concern	3,040 (0.6)	700			365	850	450		675					
Unique Interest	2,540 (0.5)						1500		160		435		170	275
Botanical Area	9,280 (1.8)	1075	975	30		2540		675	2700	165	310	185	75	550
Supplemental Resource	6,215 (1.2)								25		2350	2350	340	1150
Special Wildlife Sites	6,590 (1.3)	425	235	380	70	50	250	320	1300	1800	1100	530	15	115
National Monument	480 (0.1)		480											
Riparian Protection (incl. classes 1-3)	24,490 (4.8)	1500	2400	2100	2000	1300	2100	2100	900	4700	3000	665	25	1700
Late Success. Reserve (mgt. for old growth)	222,000 (43.3)	14700	27800	3600	20500	12200	49000	16000	19900	19200	25500	41200	5200	11300
Matrix Lands (multiple-use)	109,000 (21.3)	17400	12500	12300	12000	7700		3200	9300	14450	10800	2900	350	6100
Federal & Private:														
Matrix & Private Timber Mgt. Base est. (acres)	189,200	42400	21000	17300	22000	28700	150	3200	17300	16750	10800	2900	350	6350
(% of watershed)	30.1%	58.9%	34.0%	58.9%	38.4%	53.8%	0.7%	11.6%	15.3%	38.6%	21.1%	6.0%	1.5%	25.3%
	* Data Source: NRCS inventory, FS/BLM reports, communication with FS/BLM staff specialists. Acreage here may differ from source documents due to measurement & compilation techniques.													
	** Land Use Allocations from: Presidents NW Forest Plan (1994), the Siskiyou NF Land & Res. Mgt. Plan, and BLM Medford District Res.Mgt. Plan. Acreages are from GIS measurements using watershed base maps (by NRCS).													

Table 4. TREATMENT AND MANAGEMENT STATISTICS FOR SUBWATERSHEDS - ILLINOIS RIVER WATERSHED (Southwest Oregon Basin)

TABLE 4

Compiled by Gene Hickman - USDA NRCS - December, 1998 *

SUBJECT / SUBWATERSHED	Watershed Totals	Deer Creek	Sucker Creek	Althouse Creek	East Fork Illinois	West Fork Illinois	Rough & Ready	Josephine Creek	Mainstem Illinois River	Briggs Creek	Silver Creek	Indigo Creek	Collier Creek	Lawson Creek
Watershed Acres (approx):	628,500	72,000	61,700	29,350	57,350	53,350	22,950	27,550	113,200	43,400	51,250	48,650	22,700	25,050
Roads, miles (approx.)	2530	645	290	200	335	220	30	60	250	170	120	110	25	75
acres (est.)	7500	1900	870	600	1000	660	90	175	750	525	300	330	75	225
density (miles/sec)	2.6	5.7	3.0	4.4	3.7	2.6	0.8	1.4	1.4	2.5	1.5	1.4	0.7	1.9
Cleared for Agric. (acres):														
Crops, vineyards, idle, dev.pasture, (dry/irrig) (est. by NRCS)	16600 (**)	5000	1225	3150	3400	1550	75		2200					
Irrigated land only: (Ore Wat.Res.Div. 1998)	9100 (****)	2060	840	1780	2125	900	70		1325					
Wildfire - 50 yr. history - If-severe intensity (ac):														
1991-1995	7610	180				505	50	6750	125					
1986-1990	85880		80		8040	2625	60		25100		24220	20415	5340	
1976-1985	100			10	40				35	15				
1956-1975	970	90	165		50	10		25	25	45		550	10	
1946-1955	3040		815		500	1540	40		75	25	45			
total (approx)	97600	270	1060	10	8630	4680	150	6775	25360	85	24265	20965	5350	-
% of watershed	15.5%	0.4%	1.7%	0	15.0%	8.0%	0.7%	24.6%	22.4%	0.2%	47.3%	43.1%	23.6%	-
Timber Harvest-clearcut(**)														
Federal Lands (ac):														
1991-1995	975 (0.2%)	340	195	50		140			70			110		70
1986-1990	10200 (1.6%)	1035	1165	960	1585	615			225	945	1660	1445	15	550
1976-1985	9155 (1.5%)	1140	2025	570	955	450	100	60	125	1305	310	1065	400	650
1956-1975	21595 (3.4%)	2235	4620	1895	2700	430		65	995	2580	1090	2255	550	2180
1946-1955	1510 (0.2%)		75	155	1260					20				
(total)	43435 (6.9%)	4750	8080	3630	6500	1635	100	125	1415	4850	3060	4875	965	3450
Private, 1925-95 (est):	11100 (1.8%)	4000	1000	1000	2000	2000			1000	100				
grand total	54535	8750	9080	4630	8500	3635	100	125	2415	4950	3060	4875	965	3450
% of watershed	8.7%	12.2%	14.7%	15.8%	14.8%	6.8%	0.4%	0.5%	2.1%	11.4%	6.0%	10.0%	4.3%	13.8%
Partial Cut Harvests (**)														
Federal Lands (ac):														
1991-1995	460 (0.07%)	350	25			75			10					
1986-1990	2120 (0.3%)	735	65	460	220	60				50	430		95	5
1976-1985	6710 (1.1%)	2695	535	420	560	260	60		555	520	535	380	75	115
1956-1975	9925 (1.6%)	3350	910	315	625	105		70	1100	1230	2050	145		25
1946-1955	125 (0.02%)	75		5	45									
(total)	19340 (3.1%)	7205	1535	1200	1450	500	60	70	1665	1800	3015	525	170	145
Private, 1925-95 (est):	69040 (11.0%)	21000	7500	4000	8000	19000	100		7000	2200				240
grand total	88380	28205	9035	5200	9450	19500	160	70	8665	4000	3015	525	170	385
% of watershed	14.1%	39.2%	14.6%	17.7%	16.5%	36.6%	0.7%	0.3%	7.7%	9.2%	5.9%	1.1%	0.7%	1.5%
Other USFS Cuts (1946-95)- (unknown type or date):	3305	540	345	65	840	320	5	-	90	380	375	345	-	-
All Federal Cuts (1946-95):	66080	12495	9960	4895	8790	2455	165	195	3170	7030	6450	5745	1135	3595
All Federal & Private Cuts:	146220	37495	18460	9895	18790	23455	265	195	11170	9330	6450	5745	1135	3835
% of Watershed Cut:	23.3%	52.1%	29.9%	33.7%	32.8%	44.0%	1.2%	0.7%	9.9%	21.5%	12.6%	11.6%	5.0%	15.3%
	* Data Source: NRCS inventory and USFS/BLM Watershed Analysis Reports, or communication with USFS/BLM staff specialists.													
	** A variety of FS/BLM cutting codes (treatment types) are grouped for this summary of clearcut and partialcut harvesting.													
	*** Reported as 15,875 acres in 1972 by Oregon Water Resources Board						**** Reported as 10,765 acres in 1972 by Oregon Water Resources Board							

Table 5. Distribution of Selected Species from Vegetation Zone Data Set - Illinois River Basin													
				Gene Hickman, USDA NRCS, August, 1999									
Plant Species	1 Coastal Valley Black Oak	2 Interior Valley Black Oak	3 Interior Tanoak Zone	4 Coastal Tanoak Zone	5 Lower Illinois River Canyon	6 Cool Mixed Conifer West	7 Cool Western Hemlock Zone	8 Cool Mixed Conifer East	9 Cool Douglas- Fir Chinkap.	10 Cold White Fir West	11 Cold White Fir East	12 Cold Shasta Fir West	13 Cold Shasta Fir East
WESTERN HEMLOCK							*						
OREGON ASH	*	*											
BLACK COTTONWOOD	*	*											
WHITE ALDER		*											
WHITE OAK	*	*											
GRAND FIR	*	*											
PONDEROSA PINE	*	*	*										
BLACK OAK	*	*	*										
CALIF LAUREL	*	*		*	*								
MADRONE	*	*	*	*	*								
BIGLEAF MAPLE	*	*	*	*	*								
RED ALDER	*		*	*	*								
PORT-ORFORD CEDAR	*		*	*	*	*	*						
PACIFIC DOGWOOD	*	*	*	*	*	*							
TANOAK (tree form)	*		*	*	*	shrub		shrub					
CANYON LIVE OAK	*	*	*	*	*	shrub		shrub					
PACIFIC YEW			*			*		*					
SUGAR PINE		*	*			*		*	*				
GOLDEN CHINKAPIN			*	*	*	shrub	shrub	shrub	shrub				
DOUGLAS FIR	*	*	*	*	*	*	*	*	*	*	*		
INCENSE CEDAR		*	*		*	*		*	*	*	*		
BREWER'S SPRUCE						*		*		*	*	*	*
WHITE FIR							*	*	*	*	*	*	*
WESTERN WHITE PINE										*	*	*	*
SHASTA RED FIR												*	*
MOUNTAIN HEMLOCK													*
DEERBRUSH		*	*										
WEDGELEAF CEANOTHUS		*	*										
YERBA BUENA	*	*	*										
POISONOAK	*	*	*		*								
TALL OREGONGRAPE, PIPER		*	*										
EVERGREEN HUCKLEBERRY	*		*	*	*								
SALAL	*		*	*	*	*	*						
RED HUCKLEBERRY				*	*	*	*						
TWINFLOWER			*			*	*	*	*				
VINE MAPLE			*	*	*	*	*		*				
PACIFIC SERVICEBERRY		*	*					*					
HAIRY HONEYSUCKLE	*	*	*	*	*			*					
OCEANSPRAY	*	*								*	*		
HAZEL	*	*	*					*		*	*		
WHIPPLEVINE		*	*	*	*	*	*	*	*	*	*		
WESTERN DEWBERRY		*	*	*	*	*	*	*	*	*	*		
COMMON SNOWBERRY	*	*	*		*	*	*	*	*	*	*	*	*
LITTLE WILD ROSE	*	*	*	*	*	*	*	*	*	*	*	*	*
CASCADE OREGONGRAPE		*	*	*	*	*	*	*	*	*	*	*	*
RHODODENDREN			*	*	*	*	*		*	*		*	
LITTLE PRINCESPINE				*	*	*	*	*	*	*	*	*	*
WESTERN PRINCESPINE				*	*	*	*	*	*	*	*	*	*
SADLER OAK						*	*	*	*	*	*	*	*
OREGON WINTERGREEN							*	*	*	*	*		
ROCKY MOUNTAIN MAPLE								*		*	*	*	*
PACHYSTIMA								*	*	*	*	*	*
WOODLAND PHLOX								*	*		*		*
SNOW BRAMBLE								*	*		*		*
BIG HUCKLEBERRY										*	*	*	*
GOOSEBERRY											*		*
MOUNTAIN ASH													*
BLUE WILDRYE	*	*											
CALIFORNIA OATGRASS	*	*											
CALIF FESCUE	*	*	*										
WESTERN FESCUE	*	*	*	*	*	*	*	*	*				
CRINKLEAWN FESCUE	*	*	*	*	*	*	*	*	*	*	*		
MOUNTAIN BROME	*	*	*	*	*	*	*	*	*	*	*	*	*
ALASKA ONIONGRASS	*	*				*	*	*	*	*	*		
TALL TRISETUM		*						*			*		*
WOODLAND TARWEED	*	*	*										
PACIFIC HOUNDSTONGUE		*											
HILLSIDE REINORCHID	*	*	*										
TWAYBLADE	*			*		*							
SMALL INSIDEOUTFLOWER	*			*	*	*							
OXALIS	*			*	*								
WHITE INSIDEOUTFLOWER			*					*	*	*	*		
SWORD FERN	*	*	*	*	*	*	*	*	*	*	*		
FRAGRANT BEDSTRAW	*	*	*			*	*	*	*	*	*		*
STARFLOWER	*	*	*		*	*	*	*	*	*	*	*	*
VANILLALEAF			*	*	*	*	*	*	*	*	*	*	*
BEARGRASS			*	*	*	*	*	*	*	*	*	*	*
SIDEBELLS PYROLA								*		*	*	*	*

Table 6. Runoff Curve Worksheet (Template) for Illinois River Watershed

The attached worksheet shows a generalized list of cover categories applicable to the Illinois River watershed. Included are several agricultural types, urban, roads, water, riverwash and a number of native vegetation/treatment groups. Plant communities from the vegetation inventory are separated into broad climatic zones, then grouped into hydrologically similar types of plant cover. Subgroups of some vegetation types are set up to track cover changes and stand development, over time, after clear cutting, partial cutting and wildfires. This provides a way to recognize the time intervals needed for hydrologic recovery. Also, the entire list (above) is divided into four standard soil hydrologic groups which affect runoff, based on NRCS soil survey data.

Runoff curve numbers (RCN) were assigned to all cover types on the template list that were assumed to be needed in the watershed. This number or value represents the potential for immediate runoff from rainfall on unfrozen soils. After reviewing considerable literature from the West on RCNs applied to a variety of situations, curve numbers were selected using judgment as to the absolute values which were appropriate and the relative differences one might expect between categories on the table.

Table 6, which follows, is the blank worksheet. It was used for documenting acreage estimates of all appropriate cover groups, by subwatersheds, and for doing the calculations which generated composite runoff curve numbers. Refer to the chapter in this report on Watershed Vegetation/Ecosystems Inventory and Analysis for more information on the procedure used. Actual worksheet data sheets for each subwatershed and each time period/condition modeled are on file in the NRCS field office file at Grants Pass, Oregon.

Runoff Curve Numbers (RCN) and Soil Cover Data for for:

Subwatershed:

Storm Type:

Composite RCN =

Acreage= 0

1 By: _____

WATERSHED HYDROLOGY ANALYSIS

Time Period or Condition:

Date:

<Land Use, Vegetation Group>	<Hydrologic Group A>			<Hydrologic Group B>			<Hydrologic Group C>			<Hydrologic Group D>		
	RCN	Acres	% Group	RCN	Acres	% Group	RCN	Acres	% Group	RCN	Acres	% Group
1 MISC GROUPS, Total =		0	100		0	100		0	100		0	100
water		0	0		0	0		0	0	100	0	0
riverwash, rockland		0	0		0	0		0	0	95	0	0
roads (paved, dirt)		0	0	87	0	0	92	0	0	95	0	0
towns, urban, industrial		0	0	85	0	0	90	0	0	92	0	0
farmsteads		0	0	80	0	0	85	0	0	90	0	0
2 AGRICULTURAL, Total =		0	100		0	100		0	100		0	100
bare ground,(cultivated)		0	0	90	0	0	95	0	0		0	0
ann crops-grain, corn, etc 1/	70	0	0	85	0	0	90	0	0		0	0
orchards (with gr cover)		0	0	80	0	0	85	0	0		0	0
idle fields;pool perm past	65	0	0	80	0	0	85	0	0	90	0	0
perm hay/pasture(fair-good)	60	0	0	75	0	0	83	0	0	90	0	0
3 LOW ELEVATION - NATIVE, Total =		0	100		0	100		0	100		0	100
bogs, meadow, hardwood riparian	75	0	0		0	0		0	0	90	0	0
J Pine/bunchgrass (Seip)		0	0		0	0		0	0	90	0	0
J Pine/ " burned (0-5 yrs.)		0	0		0	0		0	0	95	0	0
J Pine, D fir-Cedar (Seip)		0	0		0	0	75	0	0	85	0	0
J Pine, " burned (0-5 yrs)		0	0		0	0	85	0	0	95	0	0
J Pine, " burned (6-20 yrs)		0	0		0	0	80	0	0	90	0	0
C Live Oak /grass		0	0		0	0		0	0	85	0	0
W Oak+/-Pine/grass (good)		0	0	70	0	0	80	0	0	85	0	0
W Oak+/-Pine/grass (poor)		0	0	75	0	0	85	0	0	90	0	0
conifer bot land / terr forest		0	0	50	0	0	60	0	0		0	0
D fir-Hardwood forest upland		0	0	65	0	0	75	0	0	80	0	0
conifer cc/ burn (0-5 yrs)		0	0	85	0	0	90	0	0	95	0	0
conifer cc/ burn(6-10 yrs)		0	0	80	0	0	87	0	0	90	0	0
conifer cc/ burn(11-20 yrs)		0	0	75	0	0	84	0	0	87	0	0
conifer cc/ burn(21-30 yrs)		0	0	70	0	0	80	0	0	84	0	0
conifer partial cut (0-5 yrs)		0	0	75	0	0	87	0	0	90	0	0
conifer partial cut(6-10 yrs)		0	0	72	0	0	84	0	0	87	0	0
conifer partial cut(11-20 yrs)		0	0	68	0	0	80	0	0	84	0	0
4 (COOL SNOW ZONE - NATIVE, Total=		0	100		0	100		0	100		0	100
Cool D fir forests		0	0	60	0	0	70	0	0	80	0	0
" cc/ burned (0-5 yrs)		0	0	85	0	0	90	0	0	85	0	0
" cc/ burned (6-10 yrs)		0	0	80	0	0	85	0	0	92	0	0
" cc/ burned (11-20 yrs)		0	0	75	0	0	80	0	0	88	0	0
" cc/ burned (21-30 yrs)		0	0	65	0	0	75	0	0	85	0	0
" partial cut (0-5 yrs)		0	0	70	0	0	85	0	0	90	0	0
" partial cut (6-10 yrs)		0	0	67	0	0	83	0	0	87	0	0
" partial cut (11-20 yrs)		0	0	63	0	0	79	0	0	94	0	0
J Pine-Cedar-D fir (cool)		0	0		0	0	70	0	0	80	0	0
" burned (0-5 yrs)		0	0		0	0	80	0	0	90	0	0
" burned (6-20 yrs)		0	0		0	0	75	0	0	85	0	0
5 (COLD SNOW ZONE - NATIVE, Total =		0	100		0	100		0	100		0	100
wet meadow (cool or cold)		0	0	70	0	0	80	0	0	85	0	0
cold conifer forests		0	0	50	0	0	65	0	0	75	0	0
" cc / burn (0-5 yrs)		0	0	70	0	0	85	0	0	95	0	0
" cc / burn (6-10 yrs)		0	0	72	0	0	82	0	0	92	0	0
" cc / burn 11-20 yrs)		0	0	69	0	0	79	0	0	89	0	0
" cc / burn (21-30 yrs)		0	0	63	0	0	75	0	0	85	0	0
" cc / burn (31-40 yrs)		0	0	58	0	0	70	0	0	80	0	0
" partial cut (0-5 yrs)		0	0	60	0	0	75	0	0	85	0	0
" partial cut (6-10 yrs)		0	0	57	0	0	72	0	0	82	0	0
" partial cut (11-20 yrs)		0	0	54	0	0	69	0	0	79	0	0
Totals (ac, %) =		0	1%		0	1%		0	1%		0	1%

