

Theses in Watershed Management at HSU: 1967-2005

The following is a list of theses produced over the past 38 years by graduate students in watershed management at Humboldt State University. If you are interested in seeing one of the titles, they are available in the [Humboldt Room](#) at the [University Library](#).

The references are listed by author-date.

1. Ahlstrom GA. 1968. Soil moisture-vegetation relationships in the redwood region of Humboldt County. 90 p.
2. Albright JS. 1991. Storm hydrograph comparisons of subsurface pipe and stream channel discharge in a small, forested watershed in northern California. 118 p.
3. Baca G. 1970. The distribution of precipitation in west-central Humboldt County . 95 p.
4. Barber TJ. 1997. The Hetten and Tompkins Creek paired catchment study: modern U.S. Forest Service timber harvest effects on suspended sediment concentration and turbidity. 232 p.
5. Bickner FR. 1993. A soil chronosequence of the Mitchell Ranch fluvial terraces on the South Fork Eel River: age estimates and tectonic implications. 70 p.
6. Blyther RJ. 1990. Visual interpretation of Landsat imagery for identification of habitat and hydrologic types of the Okavango Delta, Botswana, Africa. 80 p.
7. Brock WA. 1986. Enhancement of rearing habitat for juvenile steelhead trout (*Salmo gairdneri*) by boulder placement in a tributary to the Klamath River. 49 p.
8. Brookes WM. 1972. A lysimeter study of snowmelt on Horse Mountain in Humboldt County. 62 p.
9. Brown SL. 1993. Dynamics of riparian encroachment on a natural stream channel. 90 p.
10. Buxton, T.H. 2004. Modeling entrainment of waterlogged woody debris in stream channels. 86 p.
11. Carkeet RA. 1968. A snow hydrology study of the Horse Mountain ski area in Humboldt County. 133 p.
12. Carroll, S.P. 2004. Effects of large wood on stream channel morphology on three low gradient reaches in the coastal redwood region . 94 p.
13. Cawley KC. 1981. A comparison of multivariate methods for the prediction of landslides on logged slopes in northern California. 154 p.
14. Choquette AF. 1984. The Holdridge mean annual runoff model applied to wildland basins in the United States. 186 p.
15. Cobb JJ. 1988. Influences of streamside shade in controlling maximum water temperatures. 103 p.

16. Conroy WJ. 1999. A comparison of rainfall-runoff relations in Elk River, a small coastal Northern California watershed. 142 p.
17. Copenhagen MJ. 1974. Suspended sediment and turbidity on the Franciscan formation, Humboldt County, California. 71 p.
18. Datzman PA. 1978. The erosion hazard rating system of the Coast Forest District: how valid is it as a predictor of erosion and can a better prediction equation be developed?. 51 p.
19. Dean EN. 1971. The orographic influence upon precipitation on the north coast of California. 109 p.
20. Dresser AT. 1996. An evaluation of two measures of streambed condition. 220 p.
21. Emad B. 1972. An investigation of the failures occurring on the cut slopes of the roads on Bluff Creek Watershed. 129 p.
22. Evenson, DF. 2001. Egg pocket depth and particle size composition within chinook salmon redds in the Trinity River, California. 69 p.
23. Florsheim JL. 1985. Fluvial requirements for gravel bar formation in northwestern California. 105 p.
24. Fox RS. 1988. Growth of young-of-the-year Sacramento blackfish, *Orthodon microlepidotus* (Ayres). 211 p.
25. Fraser JE. 1976. A quantitative erosion control experiment in northern California. 40 p.
26. Frazier JW. 1973. The distribution of precipitation in southern Humboldt County. 95 p.
27. Freeman GJ. 1971. Summer fog drip in the coastal redwood forest. 101 p.
28. Furbish DJ. 1981. Debris slides related to logging of streamside hillslopes in northwestern California. 65 p.
29. Glasgow CR. 1996. A four-year survival study of Gray pine (*Pinus sabiniana*) and Jeffrey pine (*Pinus jeffreyi*) seedlings planted on a South Fork Trinity River floodplain, Humboldt County, California. 72 p.
30. Goss ML. 1975. A climatological summary of Plumas County, California. 191 p.
31. Hagberg TD. 1995. Relationships between hydrology, vegetation and gullies in montane meadows of the Sierra Nevada. 177 p.
32. Halemeier DE. 1983. Rapid calibration of two small streams in northern California to detect effects of logging and road reconstruction. 66 p.
33. Harrington JM. 1983. An evaluation of techniques for collection and analysis of benthic invertebrate communities in second order streams in Redwood National Park. 47 p.
34. Hatton TJ. 1983. Modelling Douglas-fir site index based on soil and site factors in the Mad River District of Six Rivers National Forest. 58 p.

35. Hawkins RH. 1982. Magnitude and frequency of sediment transport in three northern California coastal streams. 68 p.
36. Heath CD. 1981. Changes in some water quality parameters due to burning Douglas-fir litter. 60 p.
37. Hill B. 1987. Snowmelt-generated runoff processes affecting wet-meadow gully erosion, northwest Nevada. 90 p.
38. Holcomb GJ. 1979. A pilot study of the influence of ash leachate on surface erosion. 57 p.
39. Hunner WC. 1983. The influence of ash leachate on ion mobility in two forest topsoils of northwestern California. 198 p.
40. Johnson WN. 1972. A study of some water quality characteristics and possible logging influences on a small stream on the north coast of California. 82 p.
41. Keppeler ET. 1986. The effects of selective logging on low flows and water yield in a coastal stream in northern California. 137 p.
42. Kershner JL. 1983. Characteristics and attitudes of some Klamath River anglers. 58 p.
43. Klein RD. 1987. Stream channel adjustments following logging road removal in Redwood National Park. 65 p.
44. Krieter JP. 1998. A suspended sediment concentration-duration response model for juvenile rearing salmonids in Maple Creek, California. 75 p.
45. LaVen RD. 1988. Channel changes in lower Bull Creek: 1966-1986. 72 p.
46. Ledwith TS. 1996. The effects of buffer strip width on air temperature and relative humidity in a stream riparian zone. 89 p.
47. Lewis J. 1982. Soil moisture and temperature regimes in the Mad River District of Six Rivers National Forest. 187 p.
48. Marcotte BD. 1990. Effects of large obstacles on channel morphology and pool spacing in gravel-bed streams of Northern California. 201 p.
49. Markman SG. 1990. Longitudinal variation in suspended sediment and turbidity of two undisturbed streams in northwestern California in relation to the monitoring of water quality above and below a land disturbance. 62 p.
50. Marr RP. 1984. Accuracy of United States Geological Survey headwater streams classification in the Franciscan Formation of Northwestern California. 57 p.
51. Manka, P. 2005. Suspended sediment yields in tributaries of Elk River, Humboldt County, California. 91 p.
52. Mayer KE. 1979. Watershed condition inventory of the Hoopa Valley Indian Reservation utilizing Landsat digital data. 48 p.
53. McFadden MC. 1983. Groundwater investigation of an alluvial terrace, Redwood Creek, Humboldt County, California, using a flood-wave response model. 64 p.

54. Mosqueda WC. 1979. Volume prediction for landslides associated with roads in Northwestern California. 47 p.
55. Neely MK. 1983. Testing a method of predicting debris slides on logged hillslopes. 54 p.
56. Nugent RM. 1972. Rainfall frequency in Humboldt County, California. 65 p.
57. Parsons AM. 1979. The use of X-ray diffraction analysis to determine suspended sediment source areas in a small Coast Range watershed. 66 p.
58. Pillsbury NH. 1972. Sediment-transport and stream-flow characteristics for Jacoby Creek, California. 113 p.
59. Pittman AD. 2002. A geomorphic investigation of mainstem spawning by chinook salmon (*Oncorhynchus tshawytscha*) in the Smith River, California. 128 p.
60. Raffo WJ. 1973. Community relocation as a flood damage prevention method: a case study. 65 p.
61. Rains MT. 1971. Interception of rainfall by a redwood canopy in the north coast of California. 100 p.
62. Reiner JP. 1983. Suspended sediment deposition in beaver ponds. 54 p.
63. Richards DL. 1967. Pilot calibration of the Elder Creek Watershed. 80 p.
64. Rolph DA. 1986. Soil water repellency in a northwestern California white fir forest. 121 p.
65. Schmitt, M. 2003. Using dye tracer response curves to quantify hydraulic and channel complexity of Prairie Creek, northwest California. 58 p.
66. Sendek KH. 1985. Effects of timber harvesting on the lag time of Caspar Creek watershed. 46 p.
67. Short DA. 1993. A sediment budget for a small northcoast drainage basin, Humboldt County, California. 69 p.
68. Stewart MA. 1987. Suspended sediment transport in a small southeast Alaskan stream. 61 p.
69. Strange TL. 1989. Seasonal analysis of species diversity and functional group organization of aquatic invertebrates in two coastal streams. 86 p.
70. Thomas BE. 1982. An evaluation of waterbar effectiveness in the coast ranges of northern California. 90 p.
71. Upp RR. 1975. Prediction of slip-surface geometry from landslide width. 65 p.
72. Wingate GD. 1973. A comparison of erosion on small watersheds after selective logging by two yarding systems. 62 p.
73. Wosika EP. 1981. Hydrologic properties of one major and two minor soil series of the coast ranges of northern California. 150 p.
74. Wright KA. 1985. Changes in storm hydrographs after roadbuilding and selective logging on a coastal watershed in Northern California. 55 p.