

Appendix A

Appendix A

Agencies and organizations contacted and asked to provide information for the Closed Basin subbasin summary.

Federal Agencies

USFWS (US Fish & Wildlife Service)
USFWS - Camas Refuge
NOAA (National Oceanographic & Atmospheric Admin)/NWS
NOAA at the INEEL
EPA (Environmental Protection Agency)
 EPA Water Quality
ACOE (Army Corp of Engineers)
BOR (Bureau of Reclamation)
USGS (US Geological Service)
USGS at INEEL
USGS Water Resources Division
USGS Regional
USFS (US Forest Service)
 Lost River Ranger District
 Region 4
 Targhee RD - R4
 Palisades RD - R4
 Challis-Salmon
 Targhee-Caribou (incl Medicine Lodge & Birch Creek)
NRCS (National Resources Conservation Service)
BLM (Bureau of Land Management)
 Challis
 Salmon
 Idaho Falls
DOE (Dept of Energy)
BIA (Bureau of Indian Affairs)
NPS (National Park Service)
 Grand Teton
 YNP
NWSWRCC (National Weather Svc Western Region Climate Ctr)

Tribes

Shoshone Bannock Tribes
Columbia River InterTribal Fish Commission

State Agencies

IDF&G (ID Fish & Game)
ID DEQ (ID Dept of Environmental Quality)
GOSC (Governor's Office of Species

Conservation Organizations

CRA (Columbia River Alliance)
DU (Ducks Unlimited)

IFA (ID Falconers Association)
GYC (Greater Yellowstone Coalition)
ICL (ID Conservation League)
IWRRI (ID Water Resources Research Institute)
IWF (ID Wildlife Federation)
ISSU (ID Salmon & Steelhead Unlimited)
NAMF (N. American Moose Foundation)
PF (Pheasants Forever)
SCI (Safari Club International)
TU (Trout Unlimited)
IRU (ID Rivers United)
RMEF (Rocky Mtn Elk Foundation)
ERBM (Eagle Rock Bass Masters)
TTSS (The Trumpeter Swan Society)

Land Trusts

TNC (The Nature Conservancy)

TRLT (Teton Regional Land Trust)
JHLT (Jackson Hole Land Trust)

Agriculture & Industry

FPI (Food Producers of Idaho)
IWA (ID Woolgrowers Association)
ICA (ID Cattle Association)
IACI (ID Association of Commerce & Industry)
IWUA (ID Water Users Association)
IWPG (ID Water Policy Group)

Hydro/Power

Amy Hydro (incl Black Creek & Deep Creek In Little Lost)
Birch Creek Hydro
Dry Creek Hydro (Little Lost)
ID Power Company
IF Power Company
Lost River Elec. (Big Lost)
Utah Power Company
Bell Mountain Hydro (Little Lost)

Appendix A

Federal Agencies

Conservation)

ID DOL (ID Dept of Lands)
IDWR (ID Dept of Water Resources)
IACD (ID Assn Conservation Districts)
ISCC (ID Soil Conservation Comm.)
ISCC State
ID DOT (ID Dept of Transportation)

IDOA (ID Dept of Agriculture)
IDPR (ID Dept of Parks & Recreation)
IFPL (ID Foundation Parks & Land)

ID Geological Services/UofI

WDGF (WY Dept of Game & Fish)

Irrigation Districts

Committee of 9
ID Water Resource Board

Upper Snake River	01
Mud Lake and Tributaries	31
Medicine Lodge Creek	32-C
Birch Creek	32-D
Little Lost River	33
Big Lost River	34

Counties / Commissioners

Jefferson
Clark
Butte
Custer
Lemhi

Fremont
Madison
ID County Commission
ID Association of Counties

Cities

Mackay
Arco
Howe
Mud Lake/Terreton
Dubois

Conservation Organizations

Nicholson Hydro (Little Lost)

Other

Idaho Round Table
National Learning Site in Holistic Mgt

Educational/Universities

Utah State University, Department of Forest Resources
Utah State University, Department of Biology
Utah State University, Ecology Center
Utah State University, Department of Fisheries & Wildlife/Watershed Science
Utah State University, Department of Rangeland Resources
University of Idaho, ID Water Resources Research

University of Idaho, ID Dept of Plant, Soil & Entomological Science

University of Idaho, ID Dept of Fish & Wildlife Resources

University of Idaho, ID Dept of Forest Resources
University of Idaho, ID Dept Rangelands, Ecology & Management

University of Idaho, ID Dept Biological Sciences

Idaho State University Dept Biological Sciences

Idaho State University Dept Geological Sciences

Montana State University, Dept Earth Sciences

Montana State University, Dept of Ecology

University of Montana, Division of Biological Sciences

University of Montana, Dept of Environmental Studies

University of Montana, Dept of Forestry

Boise State University, Dept of Biology

Boise State University, Dept of Geosciences

University of Wyoming, Botany Dept

University of Wyoming, Zoology & Physiology

University of Wyoming, Natural Science Program

WAGs & BAGs

South Fork WAG

Willow Creek WAG

Willow Creek WAG

Continental Divide WAG (Beaver-Camas Creek, Medicine Lodge, Birch Creek s/b's)

Upper Snake BAG

Bonneville County Waterways Committee

Appendix B

USGS Stream Flow Stations in the Closed Basin

Station Description

STATION.-- 13120500 BIG LOST RIVER AT HOWELL RANCH, NEAR CHILLY, ID

LOCATION.--Lat 43° 59'54", long 114° 01'12", in NE¼ NW¼ sec.30, T.8 N., R.21 E., Custer County, Hydrologic Unit 17040218, on left bank at Howell Ranch, 2.1 mi downstream from Burnt Creek, 7.7 mi downstream from East Fork, 9 mi southwest of Chilly, and 21 mi northwest of Mackay.

DRAINAGE AREA.--450 mi² . Mean elevation, 8,590 ft.

PERIOD OF RECORD.--April 1904 to November 1914, May 1920 to current year (no winter records 1904, 1906-14, 1920-48).

REVISED RECORDS.--WSP 1287: Drainage area. WSP 1317: 1905.

GAGE.--Water-stage recorder. Datum of gage is 6,621.95 ft above sea level. See WSP 1737 for history of changes prior to June 11, 1920.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. No regulation. Diversions above station for irrigation of about 3,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³ /s May 25, 1967, gage height, 6.02 ft; minimum observed, 19 ft³ /s Dec. 12, 1939, from discharge measurement. Peak discharges greater than base discharge of 900 ft³ /s are available.

Station Description

STATION.-- 13127000 BIG LOST RIVER BELOW MACKAY RESERVOIR, NEAR MACKAY, ID

LOCATION.--Lat 43° 56'20", long 113° 38'50", in SW¼ NE¼ SE¼ sec.18, T.7 N., R.24 E., Custer County, Hydrologic Unit 17040218, on left bank 1.4 mi downstream from head of Sharp ditch, 1.6 mi downstream from Mackay Reservoir, and 2.5 mi northwest of Mackay

Appendix B

DRAINAGE AREA.--813 mi² .

PERIOD OF RECORD.--December 1903 to August 1906, and May 1912 to March 1915 (published as "near Mackay"), January 1919 to current year.

REVISED RECORDS.--WSP 1347: 1904-6.

GAGE.--Water-stage recorder. Datum of gage is 5,946.39 ft above sea level.

Nonrecording gage prior to May 12, 1912, and June 5, 1912 to Apr. 28, 1913, at sites within 1 mi upstream at different datums; May 12 to June 4, 1912, at site 1.5 mi upstream (above Sharp ditch) at different datum; Apr. 29, 1913 to Mar. 15, 1915, at site 1 mi downstream (below Streeter ditch) at different datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow completely regulated by Mackay Reservoir.

Sharp ditch is only diversion between station and reservoir; about 12,700 acres of land are irrigated by diversions from river and tributaries above reservoir by surface diversions, and 10,200 acres irrigated by subirrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft³ /s June 10, 1921,

June 6, 1986; maximum gage height, 6.08 ft, June 6, 1986; minimum, 16 ft³ /s Oct. 27, 1967, gage height, 1.11 ft.

Station Description

STATION.-- 13132500 BIG LOST RIVER NEAR ARCO, ID

LOCATION.--Lat 43° 35'00", long 113° 16'10", in SW¹/₄ SE¹/₄ SW¹/₄ sec.17, T.3 N., R.27 E.,

Arco South quad., Butte County, Hydrologic Unit 17040218, on right bank 0.4 mi downstream from slough entering from left bank, and 4 mi southeast of Arco.

DRAINAGE AREA.--1,410 mi² , approximately.

PERIOD OF RECORD.--August 1946 to September 1961, May 1966 to September 1980, March to September 1981, May 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,240 ft above sea level, by barometer. Prior to Oct. 14, 1952, at site 800 ft upstream at datum 3.08 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair.

Station equipment includes satellite telemetry. Flow regulated by Mackay

Appendix B

Reservoir. Station is below all large diversions for irrigation in Big Lost River Valley. About 57,500 acres of land irrigated by diversions from river and tributaries and by ground-water withdrawals above station. About 10,200 acres irrigated by subirrigation above Mackay Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³ /s July 5, 1967, gage height, 7.68 ft; no flow for long periods many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1965, reached a stage of 8.03 ft, from floodmarks, discharge, 2,500 ft³ /s.

Station Description

STATION.-- 13132513 INEEL DIVERSION AT HEAD NEAR ARCO, ID

LOCATION.--Lat 43° 30'50", long 113° 05'00" in NE¼ NW¼ SE¼ sec.11, T.2 N., R.28 E.,
Butte County, Hydrologic Unit 17040218, on left bank, 0.05 mi south of head of INEEL diversion, 0.4 mi north of intersection of gravel road from Highway 20-26 with road on top of dike, and 13.2 mi southeast of Arco.

PERIOD OF RECORD.--1965-68 (discharge measurements only); July 1984 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,000.00 ft above sea level (levels by USGS).

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow is regulated by Mackay Reservoir and is diverted from the Big Lost River for purposes of flood control at the Idaho National Engineering & Environmental Laboratory facilities.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,290 ft³ /s June 9, 1986; no flow on many days.

Station Description

STATION.-- 13132515 INEEL DIVERSION AT OUTLET OF SPREADING AREA A NEAR ARCO, ID

LOCATION.--Lat 43° 29'45", long 113° 04'19", in NE¼ SW¼ SW¼ sec.13, T.2 N., R.28 E.,
Butte County, Hydrologic Unit 17040218, on left bank, 1.4 mi south of head of INEEL diversion, 0.05 mi south of outlet of spreading area A, and 14.5 mi southeast of Arco.

Appendix B

PERIOD OF RECORD.--1965-68 (discharge measurements only); June 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,000.00 ft above sea level (levels by USGS).

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow is regulated by Mackay Reservoir and is diverted from the Big Lost River at the Idaho National Engineering & Environmental Laboratory Diversion at Head (sta 13132513) for purposes of flood control at the INEEL site.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 989 ft³ /s June 9, 1986;
no flow on many days.

Station Description

STATION.-- 13132520 BIG LOST RIVER BELOW INEEL DIVERSION NEAR ARCO, ID

LOCATION.--Lat 43° 30'57", long 113° 04'52", in SE¼ SW¼ NE¼ sec.11, T.2 N., R.28 E.,
Butte County, Hydrologic Unit 17040218, on right bank, 0.2 mi north of the head of the INEEL diversion, 4.5 mi south of State Highway 20-26 bridge over the Big Lost River, and 13.2 mi southeast of Arco.

PERIOD OF RECORD.--1965-68 (discharge measurements only); June 1984 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,000.00 ft above sea level (levels by U.S. Geological Survey).

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow regulated by Mackay Reservoir and INEEL diversion (sta 13132513). Station is below all diversions for irrigation in the Big Lost River Valley and is below the Idaho National Engineering & Environmental Laboratory diversion for flood control.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 468 ft³ /s June 13, 1997; no flow on many days.

STATION.-- 13132535 BIG LOST RIVER AT LINCOLN BOULEVARD BRIDGE NEAR ATOMIC CITY, ID

LOCATION.--Lat 43° 34'26", long 112° 56'33", in SE¼ SW¼ NE¼ sec.24, T.3 N., R.29 E.,
Butte County, Hydrologic Unit 17040218, on left bank, 2.6 mi north of Lincoln Boulevard-Portland Avenue intersection, and 18.5 mi southeast of Arco.

Appendix B

PERIOD OF RECORD.--1951-53, 1957, 1965-68 (discharge measurements only);
July 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,900.00 ft above sea level
(levels by USGS).

REMARKS.--Records fair except for estimated daily discharges, which are poor.
Station equipment includes satellite telemetry. Flow regulated by Mackay
Reservoir and INEEL diversion (sta 13132513). Station is below all diversions
for irrigation in the Big Lost River Valley and is below the Idaho National
Engineering & Environmental Laboratory diversion for flood control. In 1992,
the bridge below the gage was replaced by three (3) culverts, significantly
changing the control for the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 434 ft³ /s June 17,
1997; no flow on many days.

Appendix C

Appendix C

Census 2000 demographic information for the counties represented in the Closed Basin.
(Source: <http://quickfacts.census.gov/qfd/states/16/16023.html>)

Butte County

	People QuickFacts	Butte County	Idaho
?	Population, 2000	2,899	1,293,953
?	Population, percent change, 1990 to 2000	-0.7%	28.5%
?	Persons under 5 years old, percent, 2000	6.6%	7.5%
?	Persons under 18 years old, percent, 2000	29.0%	28.5%
?	Persons 65 years old and over, percent, 2000	14.9%	11.3%
?	White persons, percent, 2000 (a)	94.7%	91.0%
?	Black or African American persons, percent, 2000 (a)	0.3%	0.4%
?	American Indian and Alaska Native persons, percent, 2000 (a)	0.7%	1.4%
?	Asian persons, percent, 2000 (a)	0.2%	0.9%
?	Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	0.0%	0.1%
?	Persons reporting some other race, percent, 2000 (a)	2.4%	4.2%
?	Persons reporting two or more races, percent, 2000	1.8%	2.0%
?	Female population, percent, 2000	49.7%	49.9%
?	Persons of Hispanic or Latino origin, percent, 2000 (b)	4.1%	7.9%
?	White persons, not of Hispanic/Latino origin, percent, 2000	93.3%	88.0%
?	High school graduates, persons 25 years and over, 1990	1,407	479,505
?	College graduates, persons 25 years and over, 1990	237	106,135
?	Housing units, 2000	1,290	527,824
?	Homeownership rate, 2000	77.0%	72.4%
?	Households, 2000	1,089	469,645
?	Persons per household, 2000	2.64	2.69
?	Households with persons under 18 years, percent, 2000	34.7%	38.7%
?	Median household money income, 1997 model-based estimate	\$31,780	\$33,612
?	Persons below poverty, percent, 1997 model-based estimate	15.4%	13.0%
?	Children below poverty, percent, 1997 model-based estimate	19.0%	17.3%
	Business QuickFacts	Butte County	Idaho
?	Private nonfarm establishments with paid employees, 1998	63	35,961
?	Private nonfarm employment, 1998	336	423,615
?	Private nonfarm employment, percent change 1990-1998	76.8%	41.1%
?	Nonemployer establishments, 1997	163	79,240
?	Manufacturers shipments, 1997 (\$1000)	NA	16,952,872
?	Retail sales, 1997 (\$1000)	10,597	11,649,609
?	Retail sales per capita, 1997	\$3,425	\$9,623

Appendix C

?	Minority-owned firms, 1992	NA	2,747
?	Women-owned firms, 1992	NA	29,946
?	Housing units authorized by building permits, 1999	3	12,181
?	Federal funds and grants, 1999 (\$1000)	26,144	6,164,663
?	Local government employment - full-time equivalent, 1997	242	46,035
	Geography QuickFacts	Butte County	Idaho
?	Land area, 2000 (square miles)	2,233	82,747
?	Persons per square mile, 2000	1.3	15.6
?	Metropolitan Area	None	

(a) Includes persons reporting only one race.

(b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data

NA: Not available

D: Suppressed to avoid disclosure of confidential information

X: Not applicable

S: Suppressed; does not meet publication standards

Z: Value greater than zero but less than half unit of measure shown

Clark County

	People QuickFacts	Clark County	Idaho
?	Population, 2000	1,022	1,293,953
?	Population, percent change, 1990 to 2000	34.1%	28.5%
?	Persons under 5 years old, percent, 2000	8.9%	7.5%
?	Persons under 18 years old, percent, 2000	35.2%	28.5%
?	Persons 65 years old and over, percent, 2000	9.2%	11.3%
?	White persons, percent, 2000 (a)	74.2%	91.0%
?	Black or African American persons, percent, 2000 (a)	0.1%	0.4%
?	American Indian and Alaska Native persons, percent, 2000 (a)	1.0%	1.4%
?	Asian persons, percent, 2000 (a)	0.2%	0.9%
?	Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	0.1%	0.1%
?	Persons reporting some other race, percent, 2000 (a)	23.5%	4.2%
?	Persons reporting two or more races, percent, 2000	1.0%	2.0%
?	Female population, percent, 2000	47.5%	49.9%
?	Persons of Hispanic or Latino origin, percent, 2000 (b)	34.2%	7.9%
?	White persons, not of Hispanic/Latino origin, percent, 2000	63.9%	88.0%
?	High school graduates, persons 25 years and over, 1990	355	479,505
?	College graduates, persons 25 years and over, 1990	67	106,135
?	Housing units, 2000	521	527,824
?	Homeownership rate, 2000	67.9%	72.4%
?	Households, 2000	340	469,645
?	Persons per household, 2000	3.01	2.69
?	Households with persons under 18 years, percent, 2000	47.4%	38.7%
?	Median household money income, 1997 model-based estimate	\$30,827	\$33,612
?	Persons below poverty, percent, 1997 model-based estimate	12.4%	13.0%
?	Children below poverty, percent, 1997 model-based estimate	18.1%	17.3%

Appendix C

	Business QuickFacts	Clark County	Idaho
?	Private nonfarm establishments with paid employees, 1998	16	35,961
?	Private nonfarm employment, 1998	99	423,615
?	Private nonfarm employment, percent change 1990-1998	200.0%	41.1%
?	Nonemployer establishments, 1997	42	79,240
?	Manufacturers shipments, 1997 (\$1000)	NA	16,952,872
?	Retail sales, 1997 (\$1000)	4,504	11,649,609
?	Retail sales per capita, 1997	\$5,368	\$9,623
?	Minority-owned firms, 1992	NA	2,747
?	Women-owned firms, 1992	NA	29,946
?	Housing units authorized by building permits, 1999	5	12,181
?	Federal funds and grants, 1999 (\$1000)	13,834	6,164,663
?	Local government employment - full-time equivalent, 1997	67	46,035
	Geography QuickFacts	Clark County	Idaho
?	Land area, 2000 (square miles)	1,765	82,747
?	Persons per square mile, 2000	0.6	15.6
?	Metropolitan Area	None	

(a) Includes persons reporting only one race.

(b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data

NA: Not available

D: Suppressed to avoid disclosure of confidential information

X: Not applicable

S: Suppressed; does not meet publication standards

Z: Value greater than zero but less than half unit of measure shown

Custer County

	People QuickFacts	Custer County	Idaho
?	Population, 2000	4,342	1,293,953
?	Population, percent change, 1990 to 2000	5.1%	28.5%
?	Persons under 5 years old, percent, 2000	5.4%	7.5%
?	Persons under 18 years old, percent, 2000	25.5%	28.5%
?	Persons 65 years old and over, percent, 2000	14.5%	11.3%
?	White persons, percent, 2000 (a)	97.3%	91.0%
?	Black or African American persons, percent, 2000 (a)	0.0%	0.4%
?	American Indian and Alaska Native persons, percent, 2000 (a)	0.6%	1.4%
?	Asian persons, percent, 2000 (a)	Z	0.9%
?	Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	Z	0.1%
?	Persons reporting some other race, percent, 2000 (a)	1.2%	4.2%
?	Persons reporting two or more races, percent, 2000	0.9%	2.0%
?	Female population, percent, 2000	48.9%	49.9%
?	Persons of Hispanic or Latino origin, percent, 2000 (b)	4.2%	7.9%
?	White persons, not of Hispanic/Latino origin, percent, 2000	94.4%	88.0%
?	High school graduates, persons 25 years and over, 1990	2,167	479,505
?	College graduates, persons 25 years and over, 1990	415	106,135

Appendix C

?	Housing units, 2000	2,983	527,824
?	Homeownership rate, 2000	74.9%	72.4%
?	Households, 2000	1,770	469,645
?	Persons per household, 2000	2.41	2.69
?	Households with persons under 18 years, percent, 2000	31.4%	38.7%
?	Median household money income, 1997 model-based estimate	\$34,460	\$33,612
?	Persons below poverty, percent, 1997 model-based estimate	12.1%	13.0%
?	Children below poverty, percent, 1997 model-based estimate	14.9%	17.3%
	Business QuickFacts	Custer County	Idaho
?	Private nonfarm establishments with paid employees, 1998	150	35,961
?	Private nonfarm employment, 1998	950	423,615
?	Private nonfarm employment, percent change 1990-1998	27.7%	41.1%
?	Nonemployer establishments, 1997	353	79,240
?	Manufacturers shipments, 1997 (\$1000)	NA	16,952,872
?	Retail sales, 1997 (\$1000)	14,719	11,649,609
?	Retail sales per capita, 1997	\$3,467	\$9,623
?	Minority-owned firms, 1992	NA	2,747
?	Women-owned firms, 1992	145	29,946
?	Housing units authorized by building permits, 1999	9	12,181
?	Federal funds and grants, 1999 (\$1000)	20,401	6,164,663
?	Local government employment - full-time equivalent, 1997	222	46,035
	Geography QuickFacts	Custer County	Idaho
?	Land area, 2000 (square miles)	4,925	82,747
?	Persons per square mile, 2000	0.9	15.6
?	Metropolitan Area	None	

(a) Includes persons reporting only one race.

(b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data

NA: Not available

D: Suppressed to avoid disclosure of confidential information

X: Not applicable

S: Suppressed; does not meet publication standards

Z: Value greater than zero but less than half unit of measure shown

Appendix D

Jefferson County

	People QuickFacts	Jefferson County	Idaho
?	Population, 2000	19,155	1,293,953
?	Population, percent change, 1990 to 2000	15.8%	28.5%
?	Persons under 5 years old, percent, 2000	8.9%	7.5%
?	Persons under 18 years old, percent, 2000	36.3%	28.5%
?	Persons 65 years old and over, percent, 2000	9.3%	11.3%
?	White persons, percent, 2000 (a)	90.9%	91.0%
?	Black or African American persons, percent, 2000 (a)	0.3%	0.4%
?	American Indian and Alaska Native persons, percent, 2000 (a)	0.5%	1.4%
?	Asian persons, percent, 2000 (a)	0.2%	0.9%
?	Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	0.1%	0.1%
?	Persons reporting some other race, percent, 2000 (a)	6.8%	4.2%
?	Persons reporting two or more races, percent, 2000	1.3%	2.0%
?	Female population, percent, 2000	49.4%	49.9%
?	Persons of Hispanic or Latino origin, percent, 2000 (b)	10.0%	7.9%
?	White persons, not of Hispanic/Latino origin, percent, 2000	88.5%	88.0%
?	High school graduates, persons 25 years and over, 1990	6,650	479,505
?	College graduates, persons 25 years and over, 1990	1,007	106,135
?	Housing units, 2000	6,287	527,824
?	Homeownership rate, 2000	84.9%	72.4%
?	Households, 2000	5,901	469,645
?	Persons per household, 2000	3.23	2.69
?	Households with persons under 18 years, percent, 2000	49.7%	38.7%
?	Median household money income, 1997 model-based estimate	\$34,390	\$33,612
?	Persons below poverty, percent, 1997 model-based estimate	13.1%	13.0%
?	Children below poverty, percent, 1997 model-based estimate	15.8%	17.3%
	Business QuickFacts	Jefferson County	Idaho
?	Private nonfarm establishments with paid employees, 1998	334	35,961
?	Private nonfarm employment, 1998	2,685	423,615
?	Private nonfarm employment, percent change 1990-1998	26.9%	41.1%
?	Nonemployer establishments, 1997	1,146	79,240
?	Manufacturers shipments, 1997 (\$1000)	94,426	16,952,872
?	Retail sales, 1997 (\$1000)	59,861	11,649,609
?	Retail sales per capita, 1997	\$3,130	\$9,623
?	Minority-owned firms, 1992	NA	2,747
?	Women-owned firms, 1992	395	29,946
?	Housing units authorized by building permits, 1999	105	12,181
?	Federal funds and grants, 1999 (\$1000)	55,752	6,164,663
?	Local government employment - full-time equivalent, 1997	713	46,035

Appendix D

	Geography QuickFacts	Jefferson County	Idaho
?	Land area, 2000 (square miles)	1,095	82,747
?	Persons per square mile, 2000	17.5	15.6
?	Metropolitan Area	None	

(a) Includes persons reporting only one race.

(b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data

NA: Not available

D: Suppressed to avoid disclosure of confidential information

X: Not applicable

S: Suppressed; does not meet publication standards

Z: Value greater than zero but less than half unit of measure shown

Lemhi County

	People QuickFacts	Lemhi County	Idaho
?	Population, 2000	7,806	1,293,953
?	Population, percent change, 1990 to 2000	13.1%	28.5%
?	Persons under 5 years old, percent, 2000	5.1%	7.5%
?	Persons under 18 years old, percent, 2000	25.5%	28.5%
?	Persons 65 years old and over, percent, 2000	16.8%	11.3%
?	White persons, percent, 2000 (a)	96.6%	91.0%
?	Black or African American persons, percent, 2000 (a)	0.1%	0.4%
?	American Indian and Alaska Native persons, percent, 2000 (a)	0.6%	1.4%
?	Asian persons, percent, 2000 (a)	0.2%	0.9%
?	Native Hawaiian and Other Pacific Islander, percent, 2000 (a)	Z	0.1%
?	Persons reporting some other race, percent, 2000 (a)	0.8%	4.2%
?	Persons reporting two or more races, percent, 2000	1.7%	2.0%
?	Female population, percent, 2000	50.2%	49.9%
?	Persons of Hispanic or Latino origin, percent, 2000 (b)	2.2%	7.9%
?	White persons, not of Hispanic/Latino origin, percent, 2000	95.5%	88.0%
?	High school graduates, persons 25 years and over, 1990	3,410	479,505
?	College graduates, persons 25 years and over, 1990	544	106,135
?	Housing units, 2000	4,154	527,824
?	Homeownership rate, 2000	76.2%	72.4%
?	Households, 2000	3,275	469,645
?	Persons per household, 2000	2.38	2.69
?	Households with persons under 18 years, percent, 2000	30.7%	38.7%
?	Median household money income, 1997 model-based estimate	\$28,159	\$33,612
?	Persons below poverty, percent, 1997 model-based estimate	15.8%	13.0%
?	Children below poverty, percent, 1997 model-based estimate	20.7%	17.3%

Appendix D

Business QuickFacts		Lemhi County	Idaho
?	Private nonfarm establishments with paid employees, 1998	284	35,961
?	Private nonfarm employment, 1998	1,633	423,615
?	Private nonfarm employment, percent change 1990-1998	39.7%	41.1%
?	Nonemployer establishments, 1997	680	79,240
?	Manufacturers shipments, 1997 (\$1000)	NA	16,952,872
?	Retail sales, 1997 (\$1000)	54,450	11,649,609
?	Retail sales per capita, 1997	\$6,752	\$9,623
?	Minority-owned firms, 1992	NA	2,747
?	Women-owned firms, 1992	247	29,946
?	Housing units authorized by building permits, 1999	29	12,181
?	Federal funds and grants, 1999 (\$1000)	45,502	6,164,663
?	Local government employment - full-time equivalent, 1997	277	46,035
Geography QuickFacts		Lemhi County	Idaho
?	Land area, 2000 (square miles)	4,564	82,747
?	Persons per square mile, 2000	1.7	15.6
?	Metropolitan Area	None	

(a) Includes persons reporting only one race.

(b) Hispanics may be of any race, so also are included in applicable race categories.

FN: Footnote on this item for this area in place of data

NA: Not available

D: Suppressed to avoid disclosure of confidential information

X: Not applicable

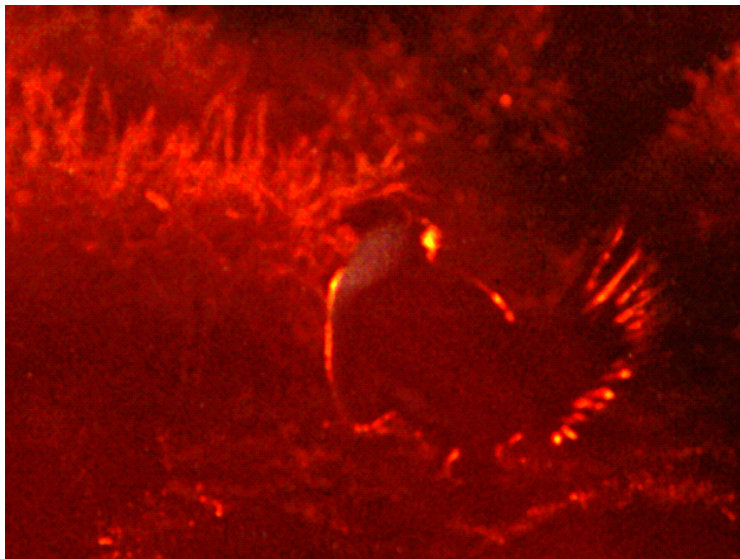
S: Suppressed; does not meet publication standards

Z: Value greater than zero but less than half unit of measure shown

SOUTHERN IDAHO GAMEBIRD RESEARCH GROUP

A TEN YEAR SUMMARY

1991-2000



*J. W. Connelly
Compiler*

*Idaho Department of Fish and Game
1345 Barton Road
Pocatello, ID 83204*

Appendix D



“Science contributes moral as well as material blessings to the world. Its great moral contribution is objectivity, or the scientific point of view. This means doubting everything except facts; it means hewing to the facts, let the chips fall where they may.”

*Aldo Leopold
A Sand County Almanac*



Appendix D

Table of Contents

Introduction-----4

Research Philosophy-----5

Project Personnel-----6

Acknowledgements-----6

Major findings and accomplishments-----7

Sage grouse-----7

Sharp-tailed grouse-----8

Ring-necked pheasant-----8

Waterfowl-----8

Publications-----9

Theses and Dissertations-----10

Presentations-----10

Publications and Presentations-----11

Publications-----11

Theses and dissertations-----15

Presentations

1991-----16

1992-----17

1993-----17

1994-----19

1995-----20

1996-----21

1997-----22

1998-----23

1999-----23

2000-----24

Appendix D



Introduction

Following the reorganization of the Idaho Department of Fish and Game in the early 1980's, permanent wildlife research biologists were assigned to work on various wildlife issues throughout the state. Principal Wildlife Research Biologists were stationed in Lewiston, Boise and Pocatello, in part to facilitate interaction with the state's major universities. In 1986, University of Idaho, Bureau of Land Management and Department personnel began intensive studies of gamebird ecology in southeastern Idaho. From the mid 1980's to the early 1990's most of the upland gamebird research effort occurred in southeastern Idaho and largely focused on sage grouse.

By the early 1990's research biologists were assigned to big game, nongame and gamebird sections within the Bureau of Wildlife. This assignment, as well as increasing workloads and concern over declining mule deer, sage grouse, and pheasant populations eventually led to Principal Wildlife Research Biologists and the biologists they supervised specializing in various wildlife species.

For the last 15 years, southeastern Idaho has remained a center of gamebird research in the state. During the late 1990's this research program broadened with additional research projects in south central and southwestern Idaho and the addition of two research biologists. This program expansion was made possible in large part due to increased funding provided to the Department by the Bureau of Land Management.

The purpose of this report is to summarize the gamebird research efforts and major findings in southern Idaho over the last 10 years. The report also helps demonstrate the amount of work that can be accomplished by the combined efforts of state and federal agencies and universities.

Research Philosophy

The following guidelines were adhered to when conducting research projects:

- The research had strong management implications.
- The research could be replicated.
- The research could be effectively conducted, given the available resources.
- The research was approached in a totally objective fashion.

Graduate students are involved in most of the research projects and usually are selected through collaborative efforts of university faculty and Department personnel. Each student is required to prepare a detailed study plan prior to initiating fieldwork. In most cases, a Department research biologist serves on the graduate student's committee.

Appendix D

A strong emphasis is placed on transferring information to field biologists and other interested individuals. Thus, graduate students are required to give presentations at technical meetings and publish the results of their work in peer reviewed journals and occasionally popular magazines.

Teamwork is also an important part of the research program. Whenever possible, Department biologists and biologists from other agencies are asked to participate in project design, fieldwork and the publication process. The importance placed on information transfer and teamwork provides the basis for this report.

Project Personnel

Michelle Commons-Research Biologist, Idaho Department of Fish and Game, 868 East Main Street, P.O. Box 428, Jerome, ID 83338

John W. Connelly-Principal Wildlife Research Biologist, Idaho Department of Fish and Game, 1345 Barton Road, Pocatello, ID 83204

Thomas P. Hemker-Program Coordinator, Small Game and Habitat, Idaho Department of Fish and Game, 600 South Walnut, P.O. Box 25, Boise, Idaho

David D. Musil-Senior Research Biologist, Idaho Department of Fish and Game, 868 East Main Street, P.O. Box 428, Jerome, ID 83338

Brad Lowe-Wildlife Research Technician, Idaho Department of Fish and Game, Dubois, ID

Thomas Parker-Wildlife Manager, Small Game and Habitat, Idaho Department of Fish and Game, 600 South Walnut, P.O. Box 25, Boise, Idaho

Kerry P. Reese-Professor of Wildlife Resources, Department of Fisheries and Wildlife Resources University of Idaho, Moscow, ID 83843



Acknowledgements

We appreciate the efforts of the many volunteers, wildlife technicians and bio-aides that helped in various aspects of these projects over the last 10 years. We are especially grateful to the Idaho Department of Fish and Game Conservation Officers of the Upper Snake Region for their constant willingness to endure long cold nights of sage grouse trapping and the occasional forays they made to rescue stranded research personnel, with scarcely a snicker. Finally, we are indebted to the following cooperators for their support of these research projects: Idaho Department of Fish and Game, University of Idaho, United States Bureau of Land Management, United States Forest Service, Fremont County Woolgrowers, U. S. Air Force, U.S. Army Corps of Engineers, Colorado Division of Wildlife, Idaho Power Company, Washington Department of Fish and Wildlife, U.S. Geological Survey, Grouse Inc.

Major Findings and Accomplishments

Sage Grouse

- Developed methods for transplanting sage grouse
- Re-established sage grouse in the Sawtooth Valley
- Documented the response of sage grouse populations to fire
- Characterized recovery of sage grouse habitat following fire
- Documented permanent loss of sage grouse winter range on the Upper Snake River Plain
- Described major migration routes for sage grouse in southern Idaho
- Discovered sage grouse have the lowest reproductive rate of any gamebird in Idaho
- Provided evidence suggesting that hunting may be additive to over-winter mortality
- Provided evidence indicating predators have little effect on the adult and juvenile (>10 weeks of age) segments of the population
- Developed improved trapping techniques for sage grouse
- Developed method for attaching micro-transmitters to day-old sage grouse chicks
- In cooperation with biologists from other agencies, wrote guidelines for population and habitat management
- Developed a GIS based habitat model for sage grouse



Columbian Sharp-tailed Grouse

- Developed a habitat suitability index procedure
- Described seasonal habitat selection in southern Idaho
- Described similarities and differences in habitat use by sharp-tailed grouse and sage grouse
- Documented reproductive rates
- Published habitat management guidelines
- Published Birds of North America species account of sharp-tailed grouse
- Documented the use of chokecherry seeds as grit during winter
- Found that CRP fields provided better quality foods during winter than adjacent shrub uplands
- Developed information suggesting females reduce nest predation by nesting relatively far from leks

Ring-necked Pheasants

- Developed improved trapping techniques
- Documented extremely high losses of game farm birds released to the wild

Waterfowl

- Developed a device for accurately recording predation events
- Determined that Russian olive invasion was related to low duck nesting success
- Documented the lowest reported duck nesting success in N.A. at Sterling WMA
- Provided evidence indicating that mammalian nest predation increased following reduction of magpie habitat

Appendix D

Publications

Over the last 10 years, 34 papers have been published in various outlets and one other was submitted for publication. Of the 34 papers, 25 (73%) were published in peer-reviewed journals or bulletins, 7 (21%) in state reports or proceedings of scientific meetings, and 2 (6%) in popular literature. Peer-reviewed manuscripts were published in 11 different scientific outlets.

Of the 34 manuscripts (Table 1), most dealt with grouse habitat (35%) and grouse population or general ecology (24%). However, 2 of these addressed guidelines for managing sage and Columbian sharp-tailed grouse populations and habitats. Four papers were published in the Journal Wildlife Biology as part of the 7th and 8th International Grouse Symposiums. These Symposiums had a 50 to 70% rejection rate and relatively few North American papers were published as part of these symposiums.

Table 1. Summary of topics of papers published by gamebird research group, 1991-2000.

Species	Topic								Total
	Habitat	Population ecology	General ecology	Management	Techniques	Pesticides	Predation /hunting	Other	
Sage grouse	10	4	3	1	2	3	1		24
Sharp-tailed grouse	2		1	1					4
Waterfowl					1		1		2
Miscellaneous					1			3	4
Total	12	4	4	2	4	3	2	3	34

Theses and Dissertations

Ten M.S. theses and 2 Ph.D. dissertations were completed between 1991 and 2000. Of these, 4 were written on Columbian sharp-tailed grouse (33%), 4 on sage grouse (33%), 1 on Columbian sharp-tailed and sage grouse (8%), 1 on pheasants (8%) and 2 on waterfowl (17%). Of the 12 graduate students involved in these projects, 9 are now employed in the natural resources field, 2 have taken positions peripherally related to naturally resources, and one has not obtained full-time employment. Three of the former students are employed by state fish and wildlife departments (ID, CO, CA), five are employed by federal agencies (U.S. Fish and Wildlife Service [2], National Park Service [1], U.S. Army Corps of Engineers [1], and U.S.D.A. Wildlife Services [1]), and one is employed by Ducks Unlimited.

Presentations

Since 1991, 103 oral presentations have been given at scientific meetings ($n = 73$, 71%), university lectures ($n = 17$, 16%), and conservation or civic meetings ($n = 13$, 13%). Thirty-nine of these presentations were given by graduate students and 64 by agency or university personnel. In most cases, papers were authored by more than one individual and many times by personnel from different agencies. Because of concerns over declining grouse and pheasant populations and the potential for listing the grouse species under the Endangered Species Act, more emphasis has been given to conservation and civic groups in recent years (Table 2). Project personnel have also given numerous programs and presentations at schools and scout meetings.

Appendix D

Table 2. Summary of presentations given by southern Idaho gamebird research group, 1991-2000.

Year	Technical	Meeting		Total
		University	Conservation/Civic	
1991	8	4	0	12
1992	4	1	0	5
1993	13	2	0	15
1994	12	1	0	13
1995	6	2	0	8
1996	10	1	1	12
1997	3	0	1	4
1998	3	2	0	5
1999	6	0	5	11
2000	8	4	6	18
Total	73	17	13	103

PUBLICATIONS AND PRESENTATIONS GAMEBIRD RESEARCH GROUP^a 1991-2000

Publications:

1991

Connelly, J. W., and L. J. Blus. 1991. Effects of pesticides on upland game: a review of herbicides and organophosphate and carbamate insecticides. Pages 92-97 in M. Marsh (ed.) Proceedings of the conference: Pesticides in natural systems – how can their effects be monitored? U.S. Environmental Protection Agency, Region 10, Seattle, WA.

Connelly, J. W., W. L. Wakkinen, A. D. Apa, and K. P. Reese. 1991. Sage grouse use of nest sites in southeastern Idaho. *Journal of Wildlife Management* 55:521-524.

Sirotnak, J. M., K. P. Reese, J. W. Connelly, and K. Radford. 1991. Effects of the Conservation Reserve Program (CRP) on wildlife in southeastern Idaho. Idaho Department of Fish and Game, Job Completion Report. Subproject W-160-R-Boise, ID. 45 pp.

1992

Meints, D. R., J. W. Connelly, K. P. Reese, A. R. Sands, and T. P. Hemker. 1992. Habitat suitability index procedure for Columbian sharp-tailed grouse. University of Idaho, College of Forestry, Wildlife and Range Experiment Station Bulletin Number 55.27 pp.

Wakkinen, W. L., K. P. Reese, and J. W. Connelly. 1992. Sage grouse nest locations in relation to leks. *Journal of Wildlife Management* 56:381-383.

Appendix D

Wakkinen, W. L., K. P. Reese, J. W. Connelly, and R. A. Fischer. 1992. An improved spotlighting technique for capturing sage grouse. *Wildlife Society Bulletin* 20: 425-426.

1993

Musil, D. D., J. W. Connelly, and K. P. Reese. 1993. Movements, survival, and reproduction of sage grouse translocated into central Idaho. *Journal of Wildlife Management* 57:85-91.

Giesen, K. M., and J. W. Connelly. 1993. Guidelines for management of Columbian sharp-tailed grouse habitats. *Wildlife Society Bulletin* 21:325-333.

Connelly, J. W. 1993. Trends in the editorial process for publications of The Wildlife Society. *Wildlife Society Bulletin* 21:194-199.

Gazda, R. and J. W. Connelly. 1993. Ducks and predators: more ducks with fewer trees. *Idaho Wildlife* 13(6):8-10.

Connelly, J. W., R. A. Fischer, A. D. Apa, K. P. Reese, and W. L. Wakkinen. 1993. Renesting by sage grouse in southeastern Idaho. *Condor* 95:1041-1043.

Fischer, R. A., A. D. Apa, K. P. Reese, W. L. Wakkinen, and J. W. Connelly. 1993. Nesting-area fidelity of sage grouse in southeastern Idaho. *Condor* 95:1038-1041.

1994

Ball, I. J., R. J. Gazda, and D. B. McIntosh. 1994. A simple device for measuring survival time of artificial nests. *Journal of Wildlife Management* 58:793-796.

Church, K. E., J. W. Connelly, and J. E. Enck. 1994. The role of nongovernmental organizations in gamebird conservation. *Transactions of the North American Wildlife and Natural Resource Conference* 59:488-493.

Connelly, J. W., K. P. Reese, W. L. Wakkinen, M. D. Robertson, and R. A. Fischer. 1994. Sage grouse ecology final report. W-160-R, Subproject 19. Idaho Department of Fish and Game, Boise, ID. 91 pp.

Musil, D. D., K. P. Reese, and J. W. Connelly. 1994. Nesting and summer habitat use by sage grouse translocated into central Idaho. *Great Basin Naturalist* 54:228-233.

1995

Blus, L. J., and J. W. Connelly. 1995. Use of radiotelemetry to determine exposure and effects of organophosphorus insecticides on sage grouse. *Proceedings of the Society of Environmental toxicology and Chemistry. Pellston Workshop.*

1996

Appendix D

- Crowley, C. M., and J. W. Connelly. 1996. Sage grouse population and habitat trends in southeastern Idaho and southwestern Montana. Idaho Dept. Fish and Game, Pocatello. 205 pp.
- Fischer, R. A., K. P. Reese, and J. W. Connelly. 1996. An investigation on fire effects within xeric sage grouse brood habitat. *Journal of Range Management* 49:194-198.
- Fischer, R. A., K. P. Reese, and J. W. Connelly. 1996. Influence of vegetal moisture content and nest fate on timing of female sage grouse migration. *Condor* 98: 868-872.

1997

- Connelly, J. W., and C. E. Braun. 1997. A review of long-term changes in sage grouse populations in western North America. *Wildlife Biology* 3:123-128.
- Connelly, J. W. 1997. Prairie grouse translocations in North America. *Grouse News* 14:7-11.
- Crowley, C. M., and J. W. Connelly. 1997. Trends in agricultural lands in sage grouse range in southeast Idaho and southwest Montana. Idaho Dept. Fish and Game, Pocatello. 56 pp.
- Fischer, R. A., K. P. Reese, and J. W. Connelly. 1997. Effects of prescribed fire on movements of female sage grouse from breeding to summer ranges. *Wilson Bulletin* 109:82-91.
- Reese, K. P., and J. W. Connelly. 1997. Translocations of sage grouse in North America. *Wildlife Biology* 3:87-93.

1998

- Blus, L. J., and J. W. Connelly. 1998. Radiotelemetry to determine exposure and effects of organophosphorus insecticides on sage grouse. Pp. 21-29 in L. W. Brewer and K. A. Fagerstone (eds.), *Radiotelemetry applications for wildlife toxicology field studies*. Society of Toxicology and Chemistry, Pensacola, FL.
- Connelly, J. W., M. W. Gratson, and K. P. Reese. 1998. Sharp-tailed grouse (*Tympanuchus phasianellus*). In *The Birds of North America*, No. 354 (A. Poole and F. Gill, eds.). The Birds of North America, Inc. Philadelphia, PA.
- Edelmann, F. B., M. J. Ulliman, M. J. Wisdom, K. P. Reese, and J. W. Connelly. 1998. Assessing habitat quality using population fitness parameters: a remote sensing/GIS based habitat-explicit model for sage grouse. Idaho Forestry, Wildlife, and Range Experiment. Station Technical Report 25. 33 pp.

2000

- Connelly, J. W., K. P. Reese, R. A. Fischer, and W. L. Wakkinen. 2000. Response of a sage grouse breeding population to fire in southeastern Idaho. *Wildlife Society Bulletin* 28: 90-96.

Appendix D

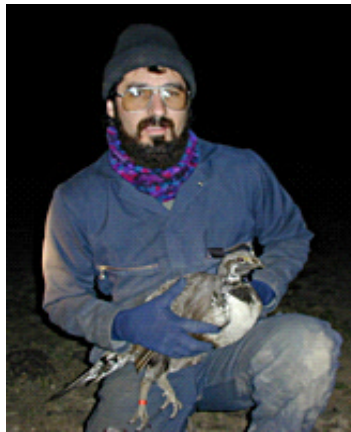
- Connelly, J. W., A. D. Apa, R. B. Smith, and K. P. Reese. Effects of predation and hunting on adult sage grouse *Centrocercus urophasianus* in Idaho. *Wildlife Biology* 6:227-232.
- Connelly, J. W., M. A. Schroeder, A. R. Sands, and C. E. Braun. 2000. Guidelines to manage sage grouse populations and habitats. *Wildlife Society Bulletin* 28:967-985.
- Nelle, P. J., K. P. Reese, and J. W. Connelly. 2000. Long-term effects of fire on sage grouse nesting and brood-rearing habitats in southeast Idaho. *Journal of Range Management* 53:in press.
- Leonard, K. M., K. P. Reese, and J. W. Connelly. Distribution, movements, and habitats of sage grouse *Centrocercus urophasianus* on the upper Snake River Plain of Idaho: changes from the 1950's to the 1990's. *Wildlife Biology* 6:265-270.
- Reese, K. P., and J. W. Connelly. 2000. On partnership for grouse. *Grouse Partnership News* 1:18
- Burkpile, N., K. P. Reese, J. W. Connelly, and D. J. Stanley. A technique paper for attaching microtransmitters to sage grouse chicks. *Wildlife Society Bulletin*. Submitted.

Theses and Dissertations:

- Meints, D. R. 1991. Seasonal movements, habitat use, and productivity of Columbian sharp-tailed grouse in southeastern Idaho. M.S. thesis, University of Idaho, Moscow. 74 pp.
- Robertson, M. D. 1991. Winter ecology of migratory sage grouse and associated effects of prescribed fire in southeastern Idaho. M.S. thesis, University of Idaho, Moscow. 88 pp.
- Fischer, R. A. 1993. Effects of prescribed fire on the ecology of migratory sage grouse in southeastern Idaho. Ph.D. dissertation, University of Idaho, Moscow. 150 pp.
- Gazda, R. J. 1994. Duck productivity and nest predation in southeastern Idaho. M.S. thesis, University of Montana, Missoula. 60 pp.
- Schneider, J. W. 1994. Winter feeding and nutritional ecology of Columbian sharp-tailed grouse in southeastern Idaho. M.S. thesis, University of Idaho, Moscow. 118 pp.
- Ulliman, M. J. 1995. Winter habitat ecology of Columbian sharp-tailed grouse in southeastern Idaho. M.S. thesis, University of Idaho, Moscow. 119 pp.
- Gardner, S. C. 1997. Movements, survival, productivity, and test of a habitat suitability index model for reintroduced Columbian sharp-tailed grouse. Thesis, University of Idaho, Moscow. 91 pp.
- Apa, A. D. 1998. Habitat use and movements of sympatric sage and Columbian sharp-tailed grouse in southeastern Idaho. Ph.D. dissertation, University of Idaho, Moscow. 199 pp.

Appendix D

- Leonard, K. M. 1998. Distribution, movements, and habitats of sage grouse on the Upper Snake River Plain: changes from the 1950's to the 1990's. Thesis, University of Idaho, Moscow. 90 pp.
- Meidinger, R. R. 1998. Effect of reducing the availability of magpie nest sites on duck nest success. M.S. thesis, University of Montana, Missoula. 55 pp.
- Nelle, P. J. 1998. The long-term effect of fire on sage grouse nesting and brood-rearing habitats on the Upper Snake River Plain. Thesis, University of Idaho, Moscow. 85 pp.
- Nohrenberg, G. A. 1999. The effects of limited predator removal on ring-necked pheasant populations in southern Idaho. Thesis, University of Idaho, Moscow. 88 pp.



Presentations:

1991

- Apa, A. D., K. P. Reese, and J. W. Connelly. 1991. Predation rates on actual and simulated nests of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. February 7-9. Boise, ID.
- Apa, A. D., K. P. Reese, and J. W. Connelly. 1991. Predation rates on actual and simulated nests of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the 17th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 24-26. Pocatello, ID.
- Connelly, J. W. 1991. Managing sage grouse in the Intermountain West. R. O. Butler Lecture, South Dakota State University. October 30. Brookings, SD.
- Connelly, J. W. 1991. Predators and upland nesting birds. Department of Wildlife and Fisheries Lecture, Utah State University. May 16. Logan, UT.
- Connelly, J. W. 1991. The ecology and management of sage grouse in the Intermountain West. Faculty Seminar, Utah State University. November 20. Logan, UT.
- Connelly, J. W. 1991. The effects of predators on upland nesting birds. Department of Wildlife and Fisheries Lecture, Utah State University. November 20. Logan, UT.

Appendix D

- Connelly, J. W., and K. P. Reese. 1991. Sage and sharp-tailed grouse research in Idaho: present status and future direction. Presented at the annual meeting of the Northwest Section, The Wildlife Society. April 18-20. Silverdale, WA.
- Fischer, R. A., K. P. Reese, and J. W. Connelly. 1991. Preliminary findings of the effects of prescribed fire on the ecology of sage grouse in southeastern Idaho. Presented at the 17th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 24-26. Pocatello, ID.
- Meints, D. R., J. W. Connelly, and K. P. Reese. 1991. Seasonal movements, habitat use, and productivity of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the 17th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 24-26. Pocatello, ID.
- Reese, K. P. 1991. Evaluation of wildlife use of CRP lands in southeastern Idaho. Presented at The annual Idaho Cooperative Fish and Wildlife Research Unit Cooperators Meeting. November 21. Moscow, ID.
- Reese, K. P. 1991. Sage and sharp-tailed grouse research in Idaho. Presented at the annual Idaho Cooperative Fish and Wildlife Research Unit Cooperators Meeting. February Moscow, ID.
- Robertson, M. D., K. P. Reese, and J. W. Connelly. 1991. Habitat characteristics of sites used by wintering sage grouse. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. February 7-9. Boise, ID.

1992

- Apa, A. D., K. P. Reese, and J. W. Connelly. 1992. Seasonal habitat use of sympatric sage and Columbian sharp-tailed grouse in southeastern Idaho. Presented at the annual meeting of the Society for Range Management. January 10-11. Spokane, WA.
- Apa, A. D., K. P. Reese, and J. W. Connelly. 1992. Nesting habitat of sympatric sage and Columbian sharp-tailed grouse in southeastern Idaho. Presented at the annual meeting of the Northwest Section, The Wildlife Society. April 22-25. Moscow, ID.
- Connelly, J. W. 1992. Predation and upland nesting birds. Department of Wildlife and Fisheries Lecture, Utah State University. November 18. Logan, UT.
- Fischer, R. A., K. P. Reese, and J. W. Connelly. 1992. The effects of fire on nesting and brooding sage grouse in southeastern Idaho. Presented at the annual meeting of the Northwest Section, The Wildlife Society. April 22-25. Moscow, ID.
- Meints, D. R., J. W. Connelly, K. P. Reese, A. R. Sands, and T. P. Hemker. 1992. Habitat suitability index procedure for Columbian sharp-tailed grouse. Presented at the annual meeting of the Northwest Section, The Wildlife Society. April 22-25. Moscow, ID.

1993

- Connelly, J. W. 1993. The status of sage grouse in Idaho. Presented at the conference on Conservation and Management of Sage Grouse. November 22-23. Bend, OR.

Appendix D

- Connelly, J. W. 1993. The breeding biology of sage and Columbian sharp-tailed grouse in the intermountain west. R. O. Butler Lecture, South Dakota State University. October 27. Brookings, SD.
- Connelly, J. W. 1993. Technical presentations – guidelines on how not to shoot yourself in the foot with your mouth. Graduate student lecture, Idaho State University. December 2. Pocatello, ID.
- Connelly, J. W., R. A. Fischer, K. P. Reese, A. D. Apa, and W. L. Wakkinen. 1993. Renesting by sage grouse in southeastern Idaho. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 25-27. Boise, ID.
- Connelly, J. W., R. A. Fischer, K. P. Reese, A. D. Apa, and W. L. Wakkinen. 1993. Renesting by sage grouse in southeastern Idaho. Presented at the Joint Meeting of the Prairie Grouse Technical Council and Western States Sage and Columbian Sharp-tailed grouse Workshop. July 25-28. Fort Collins, CO.
- Connelly, J. W., and K. P. Reese. 1993. Assessment of sage grouse movements from telemetry data: what do the data tell us? Presented at the conference on Conservation and Management of Sage Grouse. November 22-23. Bend, OR.
- Fischer, R. A., A. D. Apa, W. L. Wakkinen, K. P. Reese, and J. W. Connelly. 1993. Nesting area fidelity of sage grouse in southeastern Idaho. Presented at the Joint Meeting of the Prairie Grouse Technical Council and Western States Sage and Columbian Sharp-tailed grouse Workshop. July 25-28. Fort Collins, CO.
- Gardner, S. C., J. W. Connelly, and K. P. Reese. 1993. Test of habitat suitability index (HIS) model for reintroduced Columbian sharp-tailed grouse in Idaho. Presented at the Joint Meeting of the Prairie Grouse Technical Council and Western States Sage and Columbian Sharp-tailed grouse Workshop. July 25-28. Fort Collins, CO.
- Meints, D. R., J. W. Connelly, T. P. Hemker, K. P. Reese, and A. R. Sands. 1993. Habitat suitability index procedure for Columbian sharp-tailed grouse. Presented at the Joint Meeting of the Prairie Grouse Technical Council and Western States Sage and Columbian Sharp-tailed grouse Workshop. July 25-28. Fort Collins, CO.
- Reese, K. P., and J. W. Connelly. 1993. Efficacy of sage grouse translocation efforts. Presented at the conference on Conservation and Management of Sage Grouse. November 22-23. Bend, OR.
- Schneider, J. W., K. P. Reese, J. W. Connelly, and J. H. Klott. 1993. Winter feeding ecology of Columbian sharp-tailed grouse. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 25-27. Boise, ID.
- Schneider, J. W., K. P. Reese, J. W. Connelly, and J. H. Klott. 1993. Winter feeding ecology of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the Joint Meeting of the Prairie Grouse Technical Council and Western States Sage and Columbian Sharp-tailed grouse Workshop. July 25-28. Fort Collins, CO.
- Schneider, J. W., and K. P. Reese. 1993. Sharp-tailed grouse research in Idaho. Presented at the Idaho Cooperative Fish and Wildlife Research Unit Annual Cooperators Meeting. October 27. Moscow, ID.

Appendix D

- Ulliman, M. J., K. P. Reese, J. W. Connelly, and J. H. Klott. 1993. Winter habitat ecology of Columbian sharp-tailed grouse. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 25-27. Boise, ID.
- Ulliman, M. J., K. P. Reese, J. W. Connelly, and J. H. Klott. 1993. Winter habitat ecology of Columbian sharp-tailed grouse. Presented at the Joint Meeting of the Prairie Grouse Technical Council and Western States Sage and Columbian Sharp-tailed grouse Workshop. July 25-28. Fort Collins, CO.

1994

- Church, K. E., J. W. Connelly, and J. W. Enck. 1994. The role of non-governmental organizations in gamebird conservation. Presented at the 59th North American Wildlife and Natural Resource Conference. March 19-25. Anchorage, AK.
- Connelly, J. W. 1994. Ecology and management of sage grouse. Graduate student lecture, South Dakota State University. October 27. Brookings, SD.
- Connelly, J. W., and K. P. Reese. 1994. Sage grouse response to fire in the intermountain region. Presented at the annual meeting of The Wildlife Society. September 20-25. Albuquerque, NM.
- Connelly, J. W., K. P. Reese, R. A. Fischer, and W. L. Wakkinen. 1994. The effects of fire on sage grouse populations in southeastern Idaho. Presented at the 19th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 26-28. Reno, NV.
- Deal, J. W., K. P. Reese, and J. W. Connelly. 1994. Pooling sage grouse harvest management areas in Idaho. Presented at the 19th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 26-28. Reno, NV.
- Gardner, S. C., K. P. Reese, and J. W. Connelly. 1994. Test of an HIS model for Columbian sharp-tailed grouse. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 3-5. Post Falls, ID.
- Gazda, R. J. 1994. Duck nesting success and Russian olives at Sterling Wildlife Management Area. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 3-5. Post Falls, ID.
- Fischer, R. A., K. P. Reese, and J. W. Connelly. 1994. The impacts of fire on sage grouse habitat in southeastern Idaho. Presented at the 19th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 26-28. Reno, NV.
- Schneider, J. W., M. J. Ulliman, K. P. Reese, and J. W. Connelly. 1994. Wintering sharp-tailed grouse: distances from leks vs. diet quality. Presented at the 19th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 26-28. Reno, NV.
- Schneider, J. W., M. J. Ulliman, K. P. Reese, and J. W. Connelly. 1994. Breeding site fidelity during winter: is there any disadvantage? Presented at the joint meeting of the Ornithological Societies of North America. June 22-25. Missoula, MT.

Appendix D

Schneider, J. W., M. J. Ulliman, K. P. Reese, and J. W. Connelly. 1994. Winter food habits of Columbian sharp-tailed grouse. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 3-5. Post Falls, ID.

Ulliman, M. J., K. P. Reese, J. W. Connelly, and J. H. Klott. 1994. Winter ecology and habitat selection of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the 19th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 26-28. Reno, NV.

Ulliman, M. J., K. P. Reese, J. W. Connelly, and J. H. Klott. 1994. Winter habitat use of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 3-5. Post Falls, ID.

1995

Connelly, J. W., and K. P. Reese. 1995. Columbian sharp-tailed grouse: on the road to recovery? Presented at the annual meeting of The Wildlife Society. September 12-17. Portland, OR.

Connelly, J. W. 1995. Columbian sharp-tailed grouse: on the road to recovery? Graduate student lecture, South Dakota State University. November 13. Brookings, SD.

Connelly, J. W. 1995. Nesting waterfowl, predation, and Russian olives in southeastern Idaho. Graduate student lecture, South Dakota State University. November 14. Brookings, SD.

Gardner, S. C., K. P. Reese, and J. W. Connelly. 1995. Ecology of reintroduced Columbian sharp-tailed grouse in southern Idaho. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 9-11. Idaho Falls, ID.

Reese, K. P., J. W. Schneider, and J. W. Connelly. 1995. Do Columbian sharp-tailed grouse substitute hard seeds for grit in winter? Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 9-11. Idaho Falls, ID.

Sands, A. R., and J. W. Connelly. 1995. A conservation program for Columbian sharp-tailed grouse. Presented at the 21st meeting of the Prairie Grouse Technical Council. August 28-31. Medora, ND.

Schneider, J. W., K. P. Reese, J. W. Connelly, J. H. Klott, and B. B. Davitt. 1995. Winter food habits of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the annual meeting of The Wildlife Society. September 12-17. Portland, OR.

Ulliman, M. J., K. P. Reese, and J. W. Connelly. 1995. Winter habitat use of Columbian sharp-tailed grouse in southeastern Idaho. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. March 9-11. Idaho Falls, ID.

1996

Apa, A. D., K. P. Reese, and J. W. Connelly. 1996. An evaluation of nest placement theory using artificial and Columbian sharp-tailed grouse nests. Presented at the 7th International Grouse Symposium. Aug.20-24. Ft. Collins, CO.

Appendix D

- Compton, B. B., and J. W. Connelly. 1996. The effects of exploitation on sage grouse: Implications from a stochastic model. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 6-8. Boise, ID.
- Connelly, J. W. 1996. Long-term trends in sage grouse populations in western North America. Invited lecture. Nov. 5. South Dakota State Univ., Brookings, SD.
- Connelly, J. W., and C. E. Braun. 1996. Long-term changes in sage grouse populations: where do we go from here? Presented at the 7th International Grouse Symposium. Aug.20-24. Ft. Collins, CO.
- Connelly, J. W., and B. B. Compton. 1996. Trends in sage grouse populations in southern Idaho: do we have a crisis? Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 6-8. Boise, ID.
- Edelmann, F., M. Wisdom, K. P. Reese, and J. W. Connelly. 1996. Contribution of sage grouse life stages to population growth. Presented at the 20th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 15-18. Gillette, WY.
- Gardner, S. C., K. P. Reese, and J. W. Connelly. 1996. Evaluation of a Columbian sharp-tailed grouse reintroduction with a test of a habitat suitability index model. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 6-8. Boise, ID.
- Leonard, K. M., K. P. Reese, and J. W. Connelly. 1996. Sage grouse on the upper Snake River Plain: changes from the 50s to the 90s. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 6-8. Boise, ID.
- Leonard, K. M., K. P. Reese, and J. W. Connelly. 1996. Sage grouse on the upper Snake River Plain: changes from the 50s to the 90s. Presented at the 20th Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 15-18. Gillette, WY.
- Nohrenberg, G., K. P. Reese, and J. W. Connelly. 1996. The effects of habitat improvement programs and predator management on ring-necked pheasant populations in southern Idaho. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 6-8. Boise, ID.
- Nohrenberg, G. A., K. P. Reese, and J. W. Connelly. 1996. The effects of habitat improvement programs and predator management on ring-necked pheasant populations in southern Idaho. Annual Idaho and Region Pheasants Forever State Council Meeting, Jan. 20. Jackpot, NV.
- Reese, K. P., and J. W. Connelly. 1996. Translocations of sage grouse in North America. Presented at the 7th International Grouse Symposium. Aug. 20-24. Fort Collins, CO.

1997

- Connelly, J. W. 1997. Sage grouse and shrub steppe: recent declines and habitat loss. Presented at the annual Bureau of Land Management fire and aviation meeting. April 16. Twin Falls, ID.

Appendix D

Connelly, J. W. 1997. Long-term changes in sage grouse populations in western North America. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 6-8. Boise, ID.

Connelly, J. W. 1997. Upland game ecology and hunting in western North America. Presented at the summer meeting of the Washington Sportsmen's Association. July 29. Washington Depot, CT.

Nohrenberg, G. A., K. P. Reese, and J. W. Connelly. 1997. Effects of limited predator removal on ring-necked pheasant populations in southern Idaho. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Feb. 27-28. Boise, ID.

1998

Apa, A. D., K. P. Reese, and J. W. Connelly. 1998. Nesting habitat use and movements of sympatric female sage and Columbian sharp-tailed grouse in southeastern Idaho. Presented at the 21st Western States Sage and Columbian Sharp-tailed grouse Workshop. July 13-15. Billings, MT.

Bell, P. J., K. P. Reese, and J. W. Connelly. 1998. The long-term effect of fire on sage grouse nesting and brood-rearing habitats on the upper Snake River Plain. Presented at the 21st Western States Sage and Columbian Sharp-tailed grouse Workshop. July 13-15. Billings, MT.

Connelly, J. W., A. R. Sands, T. P. Hemker, and M. A. Schroeder. 1998. Sage grouse management in North America: a revision of old guidelines. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 5-6. Boise, ID.

Connelly, J. W. 1998. Sage grouse management in the intermountain west. University of Idaho, Lecture, Apr. 15. Moscow.

Connelly, J. W. 1998. Sage grouse in North America: management dilemmas and opportunities. South Dakota State University, Lecture, Nov. 13. Brookings.

1999

Connelly, J. W. 1999. Sage grouse habitat requirements and management guidelines. Sage grouse status conference, Jan. 13-15. Boise, ID.

Connelly, J. W. 1999. The ecology and management of sage grouse in Idaho. Presented at the Upper Snake sage grouse local working group meeting. Feb. 1. Mud Lake, ID.

Connelly, J. W. 1999. The ecology of sage grouse and the revised sage grouse management guidelines. Presented at the 64th North American wildlife and Natural Resources Conference, Mar. 28-Apr. 2. San Francisco, CA.

Connelly, J. W. 1999. The revised sage grouse management guidelines. Presented at the Western States Sage and Columbian Sharp-tailed grouse Workshop. June 13-17. Reno, NV.

Appendix D

- Connelly, J. W. 1999. Effects of predation and hunting on adult sage grouse *Centrocercus urophasianus* in Idaho. Presented at the 8th International Grouse Symposium. Sept. 13-17. Rovaniemi, Finland.
- Connelly, J. W. 1999. The ecology and management of sage grouse in Idaho. Presented at the Statewide sage grouse local working groups meeting. July 24. Twin Falls, ID.
- Connelly, J. W. 1999. Effects of predation and hunting on adult sage grouse *Centrocercus urophasianus* in Idaho. Presented at the Upper Snake sage grouse local working group meeting. Aug. 18. Mud Lake, ID.
- Connelly, J. W. 1999. Sage grouse habitat requirements and management guidelines. Bureau of Land Management sage grouse meeting. Nov. 17-18. Reno, NV.
- Connelly, J. W. 1999. Rare grouse of the world with special emphasis on North America. Portneuf Audubon Society, Dec. 16. Pocatello, ID.
- Leonard, K. M., K. P. Reese, and J. W. Connelly. 1999. Distribution, movements, and habitats of sage grouse *Centrocercus urophasianus* on the upper Snake River Plain of Idaho: changes from the 1950's to the 1990's. Presented at the 8th International Grouse Symposium. Sept. 13-17. Rovaniemi, Finland.
- Lucia, M. 1999. Mortality of juvenile sage grouse on the Upper Snake River Plain. Presented at the annual meeting of the Idaho Chapter, The Wildlife Society. Mar. 3-6. Boise, ID.

2000

- Burkpile, N., K. P. Reese, J. W. Connelly, and D. J. Stanley. 2000. A technique paper for attaching microtransmitters to sage grouse chicks. Presented at the 22nd Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 13-14. Redmond, OR.
- Burkpile, N., K. P. Reese, J. W. Connelly, and D. J. Stanley. 2000. A technique paper for attaching microtransmitters to sage grouse chicks. Presented at the annual meeting of the Northwest Section, The Wildlife Society. Mar. 7-10. Post Falls, ID.
- Commons, M. L. 2000. Sage grouse: *Centrocercus urophasianus* and *C. minimus*. Presented at the Morrison Knudson Nature Center. June 21. Boise, ID.
- Commons, M. L. 2000. A preliminary study of sage grouse in eastern Owyhee County, Idaho: will the Air Force training range expansion affect sage grouse? Presented at the 22nd Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 13-14. Redmond, OR.
- Commons, M. L., and C. E. Braun. 2000. Movements of Gunnison sage grouse in southwestern Colorado. Presented at the 22nd Western States Sage and Columbian Sharp-tailed Grouse Workshop. July 13-14. Redmond, OR.
- Commons, M. L., and S. J. Oyler-McCance. 2000. The Gunnison sage grouse (*Centrocercus minimus*). Presented at the Small Populations Workshop. August 28-31. McCall, ID.

Appendix D

- Connelly, J. W. 2000. Sage grouse population trends and management in Idaho. Presented at the monthly meeting of the Idaho Bird Hunters. February 24. Boise, ID.
- Connelly, J. W. 2000. Prairie grouse and the Endangered Species Act: Part I-Columbian sharp-tailed grouse. F. O. Butler Lecture, South Dakota State University. October 27. Brookings, SD.
- Connelly, J. W. 2000. Prairie grouse and the Endangered Species Act: Part I-Gunnison sage grouse and northern sage grouse. F. O. Butler Lecture, South Dakota State University. October 27. Brookings, SD.
- Connelly, J. W. 2000. Sage grouse ecology. Invited lecture, South Dakota State University. October 30. Brookings, SD.
- Connelly, J. W. 2000. The Evolution of Game Bird Management in the 20th Century. Wildlife Management lecture, University of Idaho. March 6. Moscow, ID.
- Connelly, J. W. 2000. Status of sage grouse and the Endangered Species Act. Presented to the Idaho National Engineering and Environmental Laboratory Senior Leadership Team. November 8. Idaho Falls, Idaho.
- Connelly, J. W. 2000. Sage grouse conservation for the 21st century. Brown bag seminar at the Idaho National Engineering and Environmental Laboratory. November 8. Idaho Falls, ID.
- Connelly, J. W. 2000. Status of sage grouse and the Endangered Species Act. Presented to the Idaho National Engineering and Environmental Laboratory Project Management Team. November 8. Idaho Falls, Idaho.
- Musil, D. D. 2000. Efficacy of augmenting low populations of pheasants with wild transplants and game farm stock. Presented at the meeting of the Upper Snake and Magic Valley Pheasant Advisory Group. June 3. Pocatello, ID.
- Musil, D. D. 2000. Efficacy of augmenting low populations of pheasants with wild transplants and game farm stock. Presented at the meeting of the Idaho Department of Fish and Game habitat managers. June 7. Red River Wildlife Management Area, ID.
- Musil, D. D. 2000. Efficacy of augmenting low populations of pheasants with wild transplants and game farm stock. Presented at the meeting of the Idaho Falls Chapter of Pheasants Forever. September 12. Idaho Falls, ID.
- Lucia, M., K. P. Reese, and J. W. Connelly. 2000. Mortality of juvenile sage grouse on the Upper Snake River Plain. Presented at the annual meeting of the Northwest Section, The Wildlife Society. Mar. 7-10. Post Falls, ID.

Appendix D



Appendix E

Camas National Wildlife Refuge



Hamer, Idaho

Camas National Wildlife Refuge is located in southeast Idaho about 36 miles north of Idaho Falls near the small town of Hamer. The refuge was established in 1937 and is administered by the U.S. Fish and Wildlife Service, Department of the Interior. The refuge is a part of the National Wildlife Refuge System and is an important link in the chain of refuges along the Pacific Flyway.

The primary objectives of the refuge are to provide resting and feeding habitat for migratory birds and nesting habitat for waterfowl.

The refuge encompasses 10,578 acres, about half of which is wetlands and the remainder mostly rangelands. Camas Creek flows through the refuge and provides water for the refuge during spring. A number of deep wells have been drilled to provide water during summer and fall.

Birding is good all year but access may be limited in winter.

The refuge is readily accessible from Interstate 15. Take the Hamer exit and proceed north for three miles on the old highway then west on a paved county road to Refuge Headquarters.

The following list of 177 species is the result of observations made by refuge personnel and visiting birdwatchers. Common names used are in accordance with the "American Ornithologists' Union Check-list of North American Birds", 6th edition (1983).

Appendix E

Seasonal Occurrence

Spring - March through May
 Summer - June through August
 Fall - September through November
 Winter - December through February

Abundance

a - abundant: a common species which is very numerous
 c - common: certain to be seen in suitable habitat
 u - uncommon: present but not certain to be seen
 o - occasional: seen only a few times in a season
 r - rare: seen at intervals of 2 to 5 years
 * - known to nest locally
 # - endangered species

Species	Spring	Summer	Fall	Winter
LOONS				
Common Loon	u	-	r	-
GREBES				
Pied-billed Grebe*	u	c	c	-
Horned Grebe	o	o	o	-
Eared Grebe*	a	c	c	-
Western Grebe*	u	c	u	-
PELICANS AND CORMORANTS				
American White Pelican*	u	u	u	-
Double-crested Cormorant*	u	c	c	-
BITTERNS, HERONS AND EGRETS				
American Bittern*	u	c	u	-
Great Blue Heron*	c	a	c	r
Great Egret*	u	u	o	-
Cattle Egret*	o	u	o	-
Black-crowned Night-Heron*	u	a	c	-
IBISES				
White-faced Ibis*	u	c	c	-
WATERFOWL				
Tundra Swan	c	r	c	-
Trumpeter Swan*	u	u	u	r
Greater White-Fronted Goose	-	r	-	-
Snow Goose	o	-	o	-
Canada Goose*	c	a	a	o
Wood Duck*	r	r	r	-
Green-winged Teal*	c	c	c	r
Mallard*	a	a	a	u
Northern Pintail*	a	a	a	r
Blue-winged Teal*	c	c	o	-

Appendix E

Species	Spring	Summer	Fall	Winter
Cinnamon Teal*	a	a	u	-
Gadwall*	a	a	a	-
American Wigeon*	a	a	a	-
Canvasback*	c	c	u	-
Redhead*	a	a	c	-
Ring-necked Duck*	c	c	u	-
Greater Scaup	-	r	r	-
Lesser Scaup*	a	c	c	-
Common Goldeneye	c	r	c	u
Barrow's Goldeneye	r	-	r	r
Bufflehead	c	r	c	-
Hooded Merganser	r	-	r	-
Common Merganser	c	-	u	-
Red-breasted Merganser*	c	o	u	-
Ruddy Duck*	c	a	c	-
VULTURES				
Turkey Vulture	r	r	r	-
OSPREY, EAGLES AND HAWKS				
Osprey	r	-	r	-
Bald Eagle#	c	-	u	c
Northern Harrier*	c	c	c	o
Sharp-shinned Hawk	r	r	r	r
Cooper's Hawk	-	-	r	r
Northern Goshawk*	o	o	o	o
Swainson's Hawk*	c	c	c	c
Red-tailed Hawk*	c	u	u	o
Ferruginous Hawk*	u	u	u	r
Rough-legged Hawk	c	-	c	c
Golden Eagle	c	o	o	c
FALCONS				
American Kestrel*	c	c	c	o
Merlin	r	-	r	-
Peregrine Falcon#	o	u	o	o
Prairie Falcon	o	o	o	o
GALLINACEOUS BIRDS				
Gray Partridge*	u	u	u	u
Ring-necked Pheasant*	c	c	c	c
Sage Grouse*	u	u	c	r
RAILS				
Virginia Rail	-	r	-	-
Sora*	o	o	o	-
American Coot*	c	a	a	r
CRANES				
Sandhill Crane*	c	c	c	-
PLOVERS				

Appendix E

Species	Spring	Summer	Fall	Winter
Semipalmated Plover	-	u	-	-
Killdeer*	c	c	c	-
STILTS AND AVOCETS				
Black-necked Stilt*	u	c	u	-
American Avocet*	c	c	c	-
SHOREBIRDS				
Greater Yellowlegs	u	r	u	-
Lesser Yellowlegs	u	r	u	-
Solitary Sandpiper	o	o	o	-
Willet*	u	c	-	-
Spotted Sandpiper	o	o	o	-
Long-billed Curlew*	c	c	-	-
Marbled Godwit	o	-	r	-
Western Sandpiper	u	u	u	-
Least Sandpiper	u	u	u	-
Baird's Sandpiper	-	r	-	-
Pectoral Sandpiper	r	r	r	-
Long-billed Dowitcher	o	r	o	-
SNIPE				
Common Snipe*	u	u	u	-
PHALAROPES				
Wilson's Phalarope*	u	c	u	-
Red-necked Phalarope	r	-	-	-
GULLS AND TERNS				
Franklin's Gull	-	c	-	-
Ring-billed Gull	c	c	c	-
California Gull	c	c	c	-
Caspian Tern	-	o	-	-
Common Tern	-	u	-	-
Forster's Tern	-	o	-	-
Black Tern	-	c	-	-
DOVES				
Rock Dove	u	u	u	-
Mourning Dove*	u	c	c	-
OWLS				
Western Screech-Owl	r	r	r	r
Great Horned Owl*	c	c	c	c
Burrowing Owl*	r	r	r	-
Great Gray Owl	-	-	-	r
Long-eared Owl	u	u	r	r
Short-eared Owl*	c	c	c	r
Northern Saw-whet Owl	r	-	-	r
GOATSUCKERS				
Common Nighthawk*	c	c	-	-
HUMMINGBIRDS				

Appendix E

Species	Spring	Summer	Fall	Winter
Calliope Hummingbird	-	u	-	
Rufous Hummingbird	-	u	-	
KINGFISHERS				
Belted Kingfisher	o	o	o	
WOODPECKERS				
Lewis' Woodpecker	r	-	-	-
Downy Woodpecker	o	r	o	o
Hairy Woodpecker	-	-	o	o
Northern Flicker*	c	c	c	u
FLYCATCHERS				
Western Wood-Pewee*	-	u	u	-
Willow Flycatcher	-	r	-	-
Say's Phoebe	-	u	-	-
Western Kingbird	-	c	-	-
Eastern Kingbird*	-	c	-	-
LARKS				
Horned Lark*	c	c	c	c
SWALLOWS				
Tree Swallow*	u	u	-	-
Violet-green Swallow*	u	u	-	-
Northern Rough-winged Swallow	r	r	-	-
Bank Swallow*	c	c	-	
Cliff Swallow*	r	u	r	-
Barn Swallow*	u	c	u	-
JAYS, MAGPIES AND CROWS				
Gray Jay	r	-	r	r
Clark's Nutcracker	-	-	r	r
Black-billed Magpie*	a	a	a	a
American Crow*	c	c	c	-
Common Raven	c	r	c	o
CHICKADEES				
Black-capped Chickadee	c	r	u	r
NUTHATCHES				
Red-breasted Nuthatch	r	r	r	o
White-breasted Nuthatch	r	r	r	o
WRENS				
House Wren*	r	r	-	-
Marsh Wren*	u	c	c	-
KINGLETS, BLUEBIRDS AND THRUSHES				
Golden-crowned Kinglet	-	u	u	-
Ruby-crowned Kinglet	-	u	u	-
Western Bluebird	u	u	-	-
Mountain Bluebird	-	u	-	-
Veery	r	r	r	-
Swainson's Thrush	-	u	u	-
Hermit Thrush	-	u	u	-

Appendix E

Species	Spring	Summer	Fall	Winter
American Robin*	u	c	c	o
MOCKINGBIRDS AND THRASHERS				
Gray Catbird	-	r	-	-
Sage Thrasher*	-	c	-	-
PIPITS				
American Pipit	-	-	u	u
WAXWINGS				
Bohemian Waxwing	-	r	r	-
Cedar Waxwing	o	-	o	o
SHRIKES				
Northern Shrike	-	-	-	u
Loggerhead Shrike	u	u	u	r
STARLINGS				
European Starling*	c	a	a	o
VIREOS				
Warbling Vireo	-	o	-	-
WARBLERS				
Yellow Warbler*	-	c	o	-
Yellow-rumped Warbler	r	r	-	-
MacGillivray's Warbler	-	r	-	-
Common Yellowthroat*	u	c	-	-
Wilson's Warbler	o	o	-	-
Yellow-breasted Chat	-	u	-	-
TANAGERS				
Western Tanager	u	u	-	-
GROSBEAKS AND BUNTINGS				
Black-headed Grosbeak	-	r	-	-
Lazuli Bunting	-	r	-	-
TOWHEES AND SPARROWS				
American Tree Sparrow	-	-	-	u
Chipping Sparrow	-	o	o	-
Brewer's Sparrow	-	u	-	-
Vesper Sparrow*	-	c	-	-
Lark Sparrow	-	u	-	-
Sage Sparrow	-	u	-	-
Savannah Sparrow*	-	c	-	-
Song Sparrow	-	o	o	-
Lincoln's Sparrow	-	r	-	-
White-crowned Sparrow	o	o	o	-
Dark-eyed Junco	c	-	u	c
Lapland Longspur	-	-	o	u
BLACKBIRDS, MEADOWLARKS AND ORIOLES				
Red-winged Blackbird*	c	a	a	u
Western Meadowlark*	u	c	u	-
Yellow-headed Blackbird*	u	a	u	-
Brewer's Blackbird*	u	c	u	-

Appendix E

Species	Spring	Summer	Fall	Winter
Brown-headed Cowbird*	-	c	-	-
Bullock's Oriole	u	r	-	-
FINCHES				
House Finch*	-	c	-	-
American Goldfinch*	-	c	o	-
Evening Grosbeak	o	-	-	r
WEAVER FINCHES				
House Sparrow*	c	c	c	u

ACCIDENTALS - the following 39 species are accidental on the refuge and have been recorded only once or twice.

Red-necked Grebe	Olive-sided Flycatcher
Least Bittern	Steller's Jay
Green Heron	Blue Jay
Harlequin Duck	Pinyon Jay
Chukar	Brown Creeper
Sharp-tailed Grouse	Rock Wren
Northern Bobwhite	American Dipper
Common Moorhen	Solitary Vireo
Black-bellied Plover	Yellow-throated Vireo
American Golden Plover	Red-eyed Vireo
Ruddy Turnstone	Chestnut-sided Warbler
Sanderling	Townsend's Warbler
Semipalmated Sandpiper	American Redstart
Stilt Sandpiper	Scarlet Tanager
Parasitic Jaeger	Rufous-sided Towhee
Long-tailed Jaeger	Clay-colored Sparrow
Band-tailed Jaeger	Red Crossbill
Barn Owl	Common Redpoll
Red-headed Woodpecker	Pine Siskin
Yellow-bellied Sapsucker	

For more information, contact:

Refuge Manager
 Camas National Wildlife Refuge
 2150 East 2350 North
 Hamer, Idaho 83425
 Phone: 208/662-5423

This resource is based on the following source:

U.S. Fish and Wildlife Service. 1985. Birds of Camas National Wildlife Refuge, Idaho. U.S. Fish and Wildlife Service. Unpaginated.

This resource should be cited as:

U.S. Fish and Wildlife Service. 1985. Birds of Camas National Wildlife Refuge, Idaho. U.S. Fish and Wildlife Service. Unpaginated.
 Jamestown, ND: Northern Prairie Wildlife Research Center Home Page.
<http://www.npwrc.usgs.gov/resource/othrdata/chekbird/r1/camas.htm>
 (Version 26MAY98).

Appendix E

[Return](#) to **Bird Checklists of Idaho** page

[Return](#) to **Bird Checklists of the United States** main page

Northern Prairie Wildlife Research Center

[Home](#) | [Site Map](#) | [Biological Resources](#) | [Help & Feedback](#)

Appendix F**Reports and Publications from the US Geological Survey Project Office
at the Idaho National Engineering and Environmental Laboratory**

- Ackerman, D.J., 1991, Transmissivity of perched aquifers at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 91-4114 (DOE/ID-22099), 27 p.
- Ackerman, D.J., 1991, Transmissivity of the Snake River Plain aquifer at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 91-4058 (DOE/ID-22097), 35 p.
- Ackerman, D.J., 1995, Analysis of steady-state flow and advective transport in the eastern Snake River Plain aquifer system, Idaho: U.S. Geological Survey Water-Resources Investigations Report 94-4257 (DOE/ID-22120), 25 p.
- Ackermann, H.D., 1979, Velocity structure to 3,000 meter depth at the Idaho National Engineering Laboratory, eastern Snake River Plain: *Eos (American Geophysical Union Transactions)*, v. 60, no. 46.
- Anderson, S.R. and Lewis, B.D., 1989, Stratigraphy of the unsaturated zone at the Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 89-4065 (DOE/ID-22080), 54 p.
- Anderson, S.R. and Liszewski, M.J., 1997, Stratigraphy of the unsaturated zone and the Snake River Plain Aquifer at and near the Idaho national Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 97-4183 (DOE/ID-22142), 65 p.
- Anderson, S.R., 1990, A preliminary geohydrologic evaluation of basalt and sediment underlying the Snake River Plain at the Idaho National Engineering Laboratory: *Geological Society of America, Abstracts with Programs, 86th Annual Meeting, Cordilleran Section*, v. 22, n. 3, p. 3.
- Anderson, S.R., 1991, Stratigraphy of the unsaturated zone and uppermost part of the Snake River Plain aquifer at the Idaho Chemical Processing Plant and Test Reactors Area, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 91-4010 (DOE/ID-22095), 71 p.
- Anderson, S.R., Ackerman, D.J., Liszewski, M.J., and Freiburger, R.M., 1996, Stratigraphic data for wells at and near the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 96-248 (DOE/ID- 22127), 27 p. and 1 diskette.
- Anderson, S.R., and Bartholomay, R.C., 1990, Use of natural gamma logs correlated to potassium-oxide content in determining the stratigraphy of basalt and sediment at the

Appendix F

- Idaho National Engineering Laboratory: Geological Society of America, Abstracts with Programs, 43rd Annual Meeting, Rocky Mountain Section, v. 22, n. 6, p. 1
- Anderson, S.R., and Bowers, Beverly, 1995, Stratigraphy of the unsaturated zone and uppermost part of the Snake River Plain aquifer at Test Area North, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 95-4130 (DOE/ID-22122), 47 p.
- Anderson, S.R., Kuntz, M.A., and Davis, L.C., 1999, Geologic controls of hydraulic conductivity in the Snake River Plain aquifer at and near the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 99-4033 (DOE/ID-22155)
- Anderson, S.R., Liszewski, M.J., and Ackerman, D.J., 1996, Thickness of surficial sediment at and near the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 96-330 (DOE/ID-22128), 16 p.
- Anderson, S.R., Liszewski, M.J., and Cecil, L.D., 1997, Geologic ages and accumulation rates of basalt-flow groups and sedimentary interbeds in selected wells at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 97-4010 (DOE/ID-22134), 39 p.
- Bagby, J.C., Ghering, G.E., Jensen, R.G., and Barraclough, J.T., 1981, A wind-powered, ground water monitoring installation at a radioactive waste management site in Idaho: U.S. Geological Survey Open-File Report 81-493 (IDO-22059), 28 p.
- Bagby, J.C., White, L.J., and Jensen, R.G., 1985, Water-quality data for selected wells on or near the Idaho National Engineering Laboratory, 1949 through 1982: U.S. Geological Survey Open-File Report 84-714 (IDO-22068), 800 p.
- Bagby, J.C., White, L.J., Barraclough, J.T., and Jensen, R.G., 1984, Ground-water site inventory data for selected wells on or near the Idaho National Engineering Laboratory, 1949 through 1982: U.S. Geological Survey Open-File Report 84-231 (IDO-22064), 353 p.
- Barraclough, J.T., 1953, Records of wells in western Jefferson County, Idaho: U.S. Geological Survey Open-file Report, 54 p.
- Barraclough, J.T., 1978, Effects of nuclear fuel reprocessing plant waste on waters in the Snake River Plain aquifer, Idaho: *Eos* (American Geophysical Union, Transactions) vol. 509, no. 4, 279 p., 1978.
- Barraclough, J.T., 1979, Liquid waste disposal at the INEL and resultant waste plumes in the Snake River Plain aquifer, *in* Markham, O.D., and Arthur, W.J., (eds), Symposium on the Idaho National Engineering Laboratory ecology programs, Wyoming, Proceedings, 1978, p. 67.
- Barraclough, J.T., 1982, Idaho National Engineering Laboratory: U.S. Geological Survey Circular 847, p 57-59.
- Barraclough, J.T., and Jensen, R.G., 1976, Hydrologic data for the Idaho National Engineering Laboratory site, Idaho, 1971 to 1973: U.S. Geological Survey Open-File Report 75-318 (IDO-22055), 52 p.

Appendix F

- Barraclough, J.T., Bagby, J.C., White, L.J., and Jensen, R.G., 1984, Water-level data for selected wells on or near the Idaho National Engineering Laboratory, 1949 through 1982: U.S. Geological Survey Open-File Report 84-239 (IDO-22065), 343 p.
- Barraclough, J.T., Lewis, B.D., and Jensen, R.G., 1981, Hydrologic conditions at the Idaho National Engineering Laboratory, Idaho, emphasis; 1974-1978: U.S. Geological Survey Water-Resources Investigations Open-File Report 81-526, (IDO 22060), 116 p.
- Barraclough, J.T., Robertson, J.B., and Janzer, V.J., 1976, Hydrology of the solid waste burial ground, as related to the potential migration of radionuclides, Idaho National Engineering Laboratory, with a section on drilling and sample analyses, by L.G. Saindon: U.S. Geological Survey Open-File Report 76-471 (IDO-22056), 183 p.
- Barraclough, J.T., Teasdale, J.B., Robertson, J.B., and Jensen, R.G., 1966, Hydrology of the National Reactor Testing Station, Idaho: Annual progress report, 1966: U.S. Geological Survey Open-File Report, IDO-22049, 95 p.
- Barraclough, J.T., Teasdale, W.E., and Jensen, R.G., 1967, Hydrology of the National Reactor Testing Station, Idaho, 1965: U.S. Geological Survey Open-File Report, IDO-22048, 107 p.
- Bartholomay, R.C. Orr, B.R., Liszewski, M.J., and Jensen, R.G., 1995, Hydrologic conditions and distribution of selected radiochemical and chemical constituents in water, Snake River Plain aquifer, Idaho National Engineering Laboratory, Idaho, 1989 through 1991: U.S. Geological Survey Water-Resources Investigations Report, 95-4175 (DOE/ID-22123), 47 p.
- Bartholomay, R.C., 1990, Digitized geophysical logs for selected wells on or near the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 89-366 (DOE/ID-22088), 347 p.
- Bartholomay, R.C., 1990, Mineralogical correlation of surficial sediment from area drainages with selected sedimentary interbeds at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water- Resources Investigations Report 90-4147 (DOE/ID-22092), 18 p.
- Bartholomay, R.C., 1993, Concentrations of tritium and strontium-90 in water from selected wells at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water- Resources Investigations Report 93- 4201 (DOE/ID-22111), 21 p.
- Bartholomay, R.C., 1998, Distribution of selected radiochemical and chemical constituents in perched ground water, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 98-4026 (DOE/ID-22145), 59 p.
- Bartholomay, R.C., 1998, Effect of activities at the Idaho National Engineering and Environmental Laboratory on the water quality of the Snake River Plain Aquifer in the Magic Valley Study, FS-052-98, 4 p.
- Bartholomay, R.C., and Knobel, L.L., 1989, Mineralogy and grain size of surficial sediment from the Little Lost River and Birch Creek Drainages, Idaho National

Appendix F

- Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 89-385 (DOE/ID-22082), 19 p.
- Bartholomay, R.C., and Tucker, B.J., 2000, Distribution of radiochemical and chemical constituents in perched ground water, Idaho National Engineering and Environmental Laboratory, Idaho, 1996-98: U.S. Geological Survey Water-Resources Investigations Report 00-4222 (DOE/ID-22168), 51 p.
- Bartholomay, R.C., Tucker, B.J., Knobel, L.L., and Mann, L.J., Radiochemical and chemical constituents in water from selected wells south of the Idaho National and Environmental Laboratory, Idaho: U.S. Geological Survey Open-File Report 01-138 (DOE/ID-22175), 19 p.
- Bartholomay, R.C., and Williams L.M., 1996, Evaluation of preservation methods for selected nutrients in ground water at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 96-4260 (DOE/ID-22131), 16 p.
- Bartholomay, R.C., Edwards, D.D., and Campbell, L.J., 1992, Radionuclides, inorganic constituents, organic compounds, and bacteria in water from selected wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1990, U.S. Geological Survey Open-File Report 92-91 (DOE/ID-22102) 42 p.
- Bartholomay, R.C., Edwards, D.D., and Campbell, L.J., 1993, Radionuclides, inorganic constituents, organic compounds, and bacteria in water from selected wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1991, U.S. Geological Survey Open-File Report 93-102 (DOE/ID-22108) 42 p.
- Bartholomay, R.C., Edwards, D.D., and Campbell, L.J., 1994, Radionuclides, inorganic constituents, organic compounds, and bacteria in water from selected wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1992, U.S. Geological Survey Open-File Report 94-76 (DOE/ID-22114) 41 p.
- Bartholomay, R.C., Edwards, D.D., and Campbell, L.J., 1994, Radionuclides, stable isotopes, inorganic constituents, and organic compounds in water from selected wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1993, U.S. Geological Survey Open-File Report 94-503 (DOE/ID-22117) 35 p.
- Bartholomay, R.C., Knobel, L.L., and Davis, L.C., 1989, Mineralogy and grain size of surficial sediment from the Big Lost River drainage and vicinity, with chemical and physical characteristics of geologic materials from selected sites at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 89-384 (DOE/ID-22081), 74 p.
- Bartholomay, R.C., Knobel, L.L., and Tucker, B.J., 1993, Chemical constituents in water from wells in the vicinity of the Naval Reactors Facility, Idaho National Engineering Laboratory, Idaho, 1990-91: U.S. Geological Survey Open-File Report 93-34 (DOE/ID-22106), 70 p.

Appendix F

- Bartholomay, R.C., Knobel, L.L., and Tucker, B.J., 1998, Chemical constituents in water from wells in the vicinity of the Naval Reactors Facility, Idaho National Engineering Laboratory, Idaho, 1994-95: U.S. Geological Survey Open-File Report 97-806 (DOE/ID-22143), 70 p.
- Bartholomay, R.C., Knobel, L.L., Tucker, B.J., and Twining, B.J., 2000, Chemical and radiochemical constituents in water from wells in the vicinity of the Idaho National Engineering and Environmental Laboratory, Idaho, 1997- 98: U.S. Geological Survey Open-File Report 00-236 (DOE/ID-22165), 52 p.
- Bartholomay, R.C., Knobel, L.L., Tucker, B.J., and Twining, B.J., 2001, Chemical and radiochemical constituents in water from wells in the vicinity of the Idaho National Engineering and Environmental Laboratory, Idaho, 1999: U.S. Geological Survey Open-File Report 02-27 (DOE/ID-22172), 37 p.
- Bartholomay, R.C., Tucker, B.J., Ackerman, D.J., and Liszewski, M.J., 1997, Hydrologic conditions and distribution of selected radiochemical and chemical constituents in water, Snake River Plain aquifer, Idaho National Engineering Laboratory, Idaho, 1992 through 1995: U.S. Geological Survey Water-Resources Investigations Report 97-4086 (DOE/ID-22137), 57 p.
- Bartholomay, R.C., Tucker, B.J., Davis, L.C., and Greene, M.R., 2000, Hydrologic conditions and distribution of selected radiochemical and chemical constituents in water, Snake River Plain aquifer, Idaho National Engineering Laboratory, Idaho, 1996 through 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4192 (DOE/ID-22167), 52 p.
- Bartholomay, R.C., Twining, B.V., and Campbell, L.J., 1999, Radiochemical and chemical constituents in water from selected wells and springs from the southern boundary of the Idaho National Engineering and Environmental Laboratory to the Hagerman Area, Idaho, 1998: U.S. Geological Survey Open-File Report 99-473 (DOE/ID-22161), 28 p.
- Bartholomay, R.C., Twining, B.V., and Campbell, L.J., 2000, Radiochemical and chemical constituents in water from selected wells and springs from the southern boundary of the Idaho National Engineering and Environmental Laboratory to the Hagerman Area, Idaho, 1999: U.S. Geological Survey Open-File Report 00-399 (DOE/ID-22169), 30 p.
- Bartholomay, R.C., Williams L.M., and Campbell, L.J., 1992, Radionuclides, stable isotopes, inorganic constituents, and organic compounds in water from selected wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1994: U.S. Geological Survey Open-File Report 95-718 (DOE/ID-22124), 37 p.
- Bartholomay, R.C., Williams L.M., and Campbell, L.J., 1997, Evaluation of radionuclide, inorganic constituent, and organic compound data from selected wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1989 through 1992: U.S. Geological Survey Water-Resources Investigations Report 97-4007 (DOE/ID-22133), 73 p.
- Bartholomay, R.C., Williams L.M., and Campbell, L.J., 1997, Radiochemical and chemical constituents in water from selected wells and springs from the southern

Appendix F

- boundary of the Idaho national Engineering Laboratory to the Hagerman area, Idaho, 1996: U.S. Geological Survey Open-File Report 97-360 (DOE/ID-22141), 29 p.
- Bartholomay, R.C., Williams L.M., and Campbell, L.J., 1998, Radiochemical and chemical constituents in water from selected wells and springs from the southern boundary of the Idaho national Engineering Laboratory to the Hagerman area, Idaho, 1997: U.S. Geological Survey Open-File Report 98-646 (DOE/ID-22152), 30 p.
- Bennett, C.M., 1986, Capacity of the diversion channel below the flood-control dam on the Big Lost River at the Idaho National Engineering Laboratory: U.S. Geological Survey Water-Resources Investigations Report, 86- 4204 (DOE/ID-22071), 25 p.
- Bennett, C.M., 1990, Streamflow losses and ground-water level changes along the Big Lost River at the Idaho National Engineering Laboratory: U.S. Geological Survey Water-Resources Investigations Report 90-4067 (DOE/ID-22091), 47 p.
- Berenbrock, Charles, and Kjelstrom, L.C., 1997, Simulation of water-surface elevations for a hypothetical 100-year peak flow in Birch Creek at the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 97-4083 (DOE/ID-22138), 20 p.
- Berenbrock, Charles, and Kjelstrom, L.C., 1998, Preliminary water-surface elevations and boundary of the 100-year peak flow in the Big Lost River at the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 98-4065 (DOE/ID-22148), 13 p.
- Busenberg Eurybiades, Plummer, L.N., Bartholomay, R.C., and Wayland, J.E., Chlorofluorocarbons, sulfur hexafluoride, and dissolved permanent gases in ground water from selected sites in and near the Idaho National Engineering and Environmental Laboratory, Idaho, 1994-97: U.S. Geological Survey Open-File Report 98-274 (DOE/ID-22151), 72 p.
- Busenberg Eurybiades, Weeks, E.P., Plummer, L.N., and Bartholomay, R.C., 1993, Age dating ground water by use of chlorofluorocarbons (CCl_3F and CCl_2F_2), and distribution of chlorofluorocarbons in the unsaturated zone, Snake River Plain aquifer, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 93-4054 (DOE/ID-22107), 47 p.
- Busenberg, Eurybiades, Plummer, L.N., Doughten, M.W., Widman, P.K., and Bartholomay, R.C., 2000, Chemical and isotopic composition and gas concentrations of ground water and surface water from selected sites at and near the Idaho National Engineering and Environmental Laboratory, Idaho, 1994-97: U.S. Geological Survey Open-File Report 00-81 (DOE/ID-22164), 51 p.
- Carkeet, Colleen, Rosentreter, J.J., Bartholomay, R.C., and Knobel, L.L., 2001, Geochemistry of the Big Lost River drainage basin, Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4031 (DOE/ID- 22174), 31 p.
- Carrigan, P.H., Jr., 1972, Probability of exceeding capacity of flood-control system at the National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22052, 102 p.

Appendix F

- Cecil, L.D., Frape, Shaun, Drimmie, Robert, Flatt, Heide, and Tucker, Betty J., 1998, Evaluation of archived water samples using chlorine isotopic data, Idaho National Engineering and Environmental Laboratory, Idaho, 1966- 93: U.S. Geological Survey Water-Resources Investigations Report 98-4008 (DOE/ID-22147), 27 p.
- Cecil, L.D., Knobel, L.L., Wegner, S.J., and Moore, L.L., 1989, Evaluation of field sampling and preservation methods for strontium-90 in ground water at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 89-4146 (DOE/ID-22083), 24 p.
- Cecil, L.D., Orr, B.R., Norton, Teddy, and Anderson, S.R., 1991, Formation of perched ground-water zones and concentrations of selected chemical constituents in water, Idaho National Engineering Laboratory, Idaho 1986- 88: U.S. Geological Survey Water-Resources Investigations Report 91-4166 (DOE/ID-22100), 53 p.
- Cecil, L.D., Parlimann, D.J., Edwards, D.D., and Young, H.W., 1994, Concentrations of dissolved radon-222 in water from selected wells and springs in Idaho, 1989-91: U.S. Geological Survey Open-File Report 94-66 (DOE/ID- 22113), 40 p.
- Cecil, L.D., Vogt, S., Frape, S.K., Davis, S.N., Cottrell, G.L., and Sharma, P., 1999, Chlorine-36 in water, snow, and mid-latitude glacial ice of North America: meteoric and weapons-tests production in the vicinity of the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 99-4037 (DOE/ID-22156), 27 p.
- Cecil, L.L., Knobel, L.L., Green, J.R., and Frape, S.K., 2000, In situ production of chlorine-36 in the eastern snake River Plain aquifer, Idaho: Implications for describing ground-water contamination near a nuclear facility: U.S. Geological Survey Water-Resources Investigations Report 00-4114 (DOE/ID-22166), 35 p.
- Chase, G.H., Teasdale, W.E., Ralston, D.A., and Jensen, R.G., 1964, Completion report for observation wells 1 through 49, 51, 54, 55, 56, 80, and 81, at the National Reactor Testing Station, Idaho: IDO-22045.
- Cleveland, J.M., and Mullin, A.H., 1993, Speciation of plutonium and americium in ground waters from the Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 93-4035, 9 p.
- Colello, J.J., Rosentreter, J.J., Bartholomay, R.C., and Liszewski, M.J., 1998, Strontium distribution coefficients of basalt core samples from the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological survey Water-Resources Investigations Report 98-4256 (DOE/ID-22153), 68 p.
- Crosthwaite, E.G., 1968, A progress report on results of test-drilling and ground-water investigations of the Snake River Plain aquifer, southeastern Idaho: Idaho Department of Water Resources Water Information Bulletin No. 32, 60 p.
- Dalrymple, B., Champion, D., and Kuntz, M.A., 1982, Volcanic hazards, in U.S. Geological Survey research in radioactive waste disposal—fiscal year 1979: U.S. Geological Survey Circular 847, p. 21-22.

Appendix F

- Davis, L.C., and Pittman, J.R., 1990, Hydrological, meteorological, and geohydrological data for an unsaturated zone study near the Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho— 1987: U.S. Geological Survey Open-File Report 90-114 (DOE/ID- 22086), 208 p.
- Davis, L.C., Hannula, S.R., and Bowers, B., 1997, Procedures for use of, and drill cores and cuttings available for study at, the Lithologic Core Storage Library, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 97-124 (DOE/ID-22135), 31 p.
- Deutsch, Morris, 1953, Geology and hydrology of Site 6, National Reactor Testing Station, Idaho: IDO-22026, 20 p.
- Deutsch, Morris, and West, S.W., 1952, Geology of Site 14 and vicinity National Reactor Testing Station: Idaho, IDO-22019, 37 p.
- Deutsch, Morris, Nace, R.L., and Shuter, Eugene, 1954, Geology and ground-water resources of a part of western Jefferson County adjacent to the National Reactor Testing Station, Idaho: IDO-22028, 24 p.
- Deutsch, Morris, Nace, R.L., and Voegeli, 1952, Geology, ground water, and waste-disposal at the Aircraft Nuclear Propulsion Project Site, National Reactor Testing Station, Idaho: IDO-22023, 45 p.
- Deutsch, Morris, Voegeli, P.T., Nace, R.L., and Jones, J.R., 1952, Geology and ground water in the northeastern part of the National Reactor Testing Station, Idaho: IDO-22022, 61 p.
- Doherty, D.J., 1979, Drilling data from exploration well 2-2A, NW 1/4, Sec. 15, T. 5 N., 31 E., Idaho National Engineering Laboratory, Butte County, Idaho: U.S. Geological Survey Open-File Report 79-851.
- Doherty, D.J., McBroome, L.A., and Kuntz, M.A., 1979, Preliminary geological interpretation and lithologic log of the exploratory geothermal test well (INEL-1), Idaho National Engineering Laboratory, Eastern Snake River Plain, Idaho: U.S. Geological Survey Open-File Report 79-1248, 7 p.
- Druffel, Leroy, Stiltner, G.J., and Keefer, T.N., 1979b, Probable hydrologic effects of a hypothetical failure of Mackay Dam on the Big Lost River Valley from Mackay, ID to the Idaho National Engineering Laboratory: U.S. Geological Survey Water-Resources Investigations 79-99, (IDO-22058), 47 p.
- Edwards, D.D., Bartholomay, R.C., and Bennett, C.M., 1990, Nutrients, pesticides, surfactants, and trace metals in ground water from the Howe and Mud Lake areas upgradient from the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 90-565 (DOE/ID-22093), 19 p.
- Goldstein, F.J., and Weight, W.D., 1982, Subsurface information from eight wells drilled at the Idaho National Engineering Laboratory: U.S. Geological Survey Open-File Report 82-0644 (IDO-22063), 34 p.

Appendix F

- Greene, M.J., and Tucker, B.J., 1998, Purgeable organic compounds in water at or near the Idaho National Engineering Laboratory, Idaho, 1992-95: U.S. Geological Survey Open-File Report 98-51 (DOE/ID-22146), 21 p.
- Jones, J.R. and Jones, S.L., 1951, Memorandum Report on compiled logs of AEC wells STR-2 and CPP-2: IDO- 22014, 8 p.
- Jones, J.R. and Jones, S.L., 1952, Logs of test holes in the central Snake River Plain, Idaho: IDO-22015, 96 p.
- Jones, J.R. and Jones, S.L., 1952, Logs of Water Wells, Reactor Testing Station, Idaho: IDO-22013, 38 p.
- Jones, J.R. and Voegeli, P.T., 1951, Geology and ground water at Site 7, Reactor Testing Station, Idaho: IDO-22000, 27 p.
- Jones, J.R., and Voegeli, P.T., 1951, Geology and ground water at Site 2A, Reactor Testing Station, Idaho: IDO- 22001, 40 p.
- Jones, J.R., Deutsch, Morris, and Voegeli, P.T., 1951, Geology and ground water at Site 3, Reactor Testing Station, Idaho: IDO-22002, 61 p.
- Jones, J.R., Jones, S.L, and Crosthwaite, E.G., 1953, Logs of test holes in the central Snake River Plain, Idaho: IDO- 22015, supplement 1, 51 p.
- Jones, Paul H., 1961, Hydrology of radioactive waste disposal at the Idaho Chemical Processing Plant National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22041.
- Jones, Paul H., 1961, Hydrology of waste disposal National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report: IDO-22042.
- Kjelstrom, L.S., and Berenbrock, Charles, 1996, Estimated 100-year peak flows and flow volumes in the Big Lost River and Birch Creek at the Idaho national Engineering Laboratory, Idaho: U.S. Geological Survey Water- Resources Investigations Report 96-4163, 23 p.
- Knobel, L.L. and Mann, L.J., 1988, Radionuclides in ground water at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 88-731 (DOE/ID-22077), 37 p.
- Knobel, L.L., Bartholomay, R.C., and Orr, B.R., 1997, Preliminary delineation of natural geochemical reactions, Snake River Plain aquifer system, Idaho National Engineering Laboratory and vicinity, Idaho: U.S. Geological Survey Water-Resources Investigations Report 97-4093 (DOE/ID-22139), 52 p.
- Knobel, L.L., Bartholomay, R.C., Cecil, L.D., Tucker, B.J., and Wegner, S.J., 1992, Chemical constituents in the dissolved and suspended fractions of ground water from selected sites, Idaho National Engineering Laboratory and vicinity, Idaho, 1989: U.S. Geological Survey Open-File Report 92-51 (DOE/ID-22101), 56 p.
- Knobel, L.L., Bartholomay, R.C., Tucker, B.J., and Williams, L.M., 1999, Chemical and radiochemical constituents in water from wells in the vicinity of the Naval Reactors

Appendix F

- Facility, Idaho National Engineering and Environmental Laboratory, Idaho, 1996: U.S. Geological Survey Open-File Report 99-272 (DOE/ID-22160), 58 p.
- Knobel, L.L., Bartholomay, R.C., Tucker, B.J., Williams, L.M., and Cecil, L.D., 1999, Chemical constituents in ground water from 39 selected sites with an evaluation of associated quality assurance data, Idaho National Engineering and Environmental Laboratory and vicinity, Idaho: U.S. Geological Survey Open-File Report 99-246 (DOE/ID-22159), 58 p.
- Knobel, L.L., Bartholomay, R.C., Wegner, S.J., and Edwards, D.D., 1992, Chemical constituents in water from wells in the vicinity of the Naval Reactors Facility, Idaho National Engineering Laboratory, Idaho, 1989-90: U.S. Geological Survey Open-File Report 92-156 (DOE/ID-22013), 38 p.
- Knobel, L.L., Cecil, L.D., Fisher, Shenean, and Green, J.R., 2001, Chemical composition of selected solid-phase samples from the Snake River Plain aquifer system and contributing drainages, Eastern Idaho and Western Wyoming: U.S. Geological Survey Open-File Report 01-36 (DOE/ID-22173), 20 p.
- Knobel, L.L., Cecil, L.D. and Wood, T.R., 1995, Chemical composition of selected core samples, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 95-748 (DOE/ID-22126), 59 p.
- Kuntz, M.A., 1978, Geology of the Arco-Big Southern Butte area, eastern Snake River Plain, and potential volcanic hazards to the radioactive waste management complex, and other waste storage and reactor facilities at the Idaho National Engineering Laboratory, Idaho with a section on statistical treatment of the age of lava flows by J.O. Kork: U.S. Geological Survey Open-File Report 78-691, 70 p.
- Kuntz, M.A., Dalrymple, G.B., Champion, D.E., and Doherty, D.J., 1980, An evaluation of potential volcanic hazards of the Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 80-388, 68 p.
- Kuntz, M.A., Dalrymple, G.B., Champion, D.E., and Doherty, D.J., 1980, Petrograph and paleomagnetism of volcanic rocks at the Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho, with an evaluation of potential volcanic hazards: U.S. Geological Survey Open-File Report 80-388, 63 p.
- Lamke, R.D., 1969, Stage discharge relations on the Big Lost River within National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22050, 29 p.
- Leenheer, J.A. and Bagby, J.C., 1982, Organic solutes in ground water at the Idaho National Engineering Laboratory: U.S. Geological Survey Water-Resources Investigations 82-15 (DOE/ID-22061), 39 p.
- Lewis, B.D., and Goldstein, F.J., 1982, Evaluation of a predictive ground-water solute-transport model at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations 82-25 (IDO- 22062), 71 p.

Appendix F

- Lewis, B.D., and Jensen, R.G., 1984, Hydrologic conditions at the Idaho National Engineering Laboratory, Idaho: 1979-1981 Update, U.S. Geological Survey Open-File Report 84-230 (IDO-22066), 65 p.
- Lewis, B.D., and Jensen, R.G., 1985, Hydrologic conditions at the Idaho National Engineering Laboratory, Idaho - 1979-1981 update: U.S. Geological Survey Hydrologic Investigations Atlas HA-674, 2 sheets.
- Lewis, B.D., Eagleton, J.M., and Jensen, R.G., 1985, Aqueous radioactive- and industrial waste disposal at the Idaho National Engineering Laboratory through 1982: U.S. Geological Survey Open-File Report 85- 636 (IDO- 22069), 77 p.
- Liszewski, M.J., and Mann, L.J., 1992, Purgeable organic compounds in ground water at the Idaho National Engineering Laboratory, Idaho—1990 and 1991: U.S. Geological Survey Open-File Report 92-174 (DOE/ID- 22104), 19 p.
- Liszewski, M.J., and Mann, L.J., 1993, Concentrations of 23 trace elements in ground water and surface water at and near the Idaho National Engineering Laboratory, Idaho, 1988-91: U.S. Geological Survey Open-File Report 93- 126 (DOE/ID-22110), 44 p.
- Liszewski, M.J., Rosentreter, J.J., and Miller, K.E, 1997, Strontium distribution coefficients of surficial sediment samples from the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigative Report 97-4044 (DOE/ID-22140), 33 p.
- Liszewski, M.J., Rosentreter, J.J., Miller, K.E, and Bartholomay, R.C., 1998, Strontium distribution coefficients of surficial and sedimentary interbed samples from the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigative Report 98-4073 (DOE/ID-22149), 55 p.
- Liszewski, M.J., Rosentreter, J.J., Miller, K.E, and Bartholomay, R.C., 2000, Chemical and physical properties affecting strontium distribution coefficients of surficial-sediment samples at the Idaho National Engineering and Environmental Laboratory, Idaho: *Environmental Geology* v. 39 (3-4), p. 411-426.
- Malde, H.E., 1971, Geologic investigation of faulting near the National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, 167 p.
- Mann, L.J., 1986, Hydraulic properties of rock units and chemical quality of water for INEL-1—a 10,365-foot deep test hole drilled at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigative Report 86-4020 (IDO-22070), 23 p.
- Mann, L.J., 1989, Tritium concentrations in flow from selected springs that discharge to the Snake River, Twin Falls- Hagerman Area, Idaho: U.S. Geological Survey Water-Resources Investigations Report 89-4156 (DOE/ID- 22084), 20 p.
- Mann, L.J., 1990, Purgeable organic compounds in ground water at the Idaho National Engineering Laboratory, Idaho—1988 and 1989: U.S. Geological Survey Open-File Report 90-367 (DOE/ID-22089), 17 p.

Appendix F

- Mann, L.J., and Beasley, T.M., 1994, Iodine-129 in the Snake River Plain aquifer at and near the Idaho National Engineering Laboratory, Idaho, 1990-91: U.S. Geological Survey Water-Resources Investigations 94-4053 (DOE/ID-22115), 27 p.
- Mann, L.J., and Beasley, T.M., 1995, Background concentration of ¹²⁹I in ground and surface water, eastern Snake River Plain, Idaho—1992: Journal of the Idaho Academy of Sciences, [accepted Dec. 1995].
- Mann, L.J., and Beasley, T.M., 1997, Quality-assurance plan and field methods for quality-of-water activities, U.S. Geological Survey, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 96-615 (DOE/ID-22132), 37 p.
- Mann, L.J., and Cecil, L.D., 1990, Tritium in ground water at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations 90-4090 (DOE/ID-22090), 35 p.
- Mann, L.J., and Knobel, L.L., 1987, Purgeable organic compounds in ground water at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 87-766 (DOE/ID-22074) 23 p.
- Mann, L.J., and Knobel, L.L., 1988, Concentrations of nine trace metals in ground water at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 88-332 (DOE/ID-22075) 17 p.
- Mann, L.J., and Knobel, L.L., 1990, Radionuclides, metals, and organic compounds in water, eastern part of A&B Irrigation District, Minidoka County, Idaho: U.S. Geological Survey Open-File Report 90-191 (DOE/ID-22087) 36 p.
- Mann, L.J., and Low, W.H., 1995, Tritium, stable isotopes and nitrogen in flow from selected springs that discharge to the Snake River, Twin Falls—Hagerman area, Idaho, 1990-93, U.S. Geological Survey Water-Resources Investigations Report 94-4247 (DOE/ID-22119), 21 p.
- Mann, L.J., Chew, E.W., Morton, J.S., and Randolph, R.B., 1988, Iodine-129 in the Snake River Plain aquifer at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 88-4165 (DOE/ID-22076), 27 p.
- McDonald, M.G., Harbaugh, A.W., Orr, B.R., and Ackerman, D.J., 1991, A method of converting no-flow cells to variable-head cells for the U.S. Geological Survey modular finite-difference ground-water flow model: U.S. Geological Survey Open-File Report 91-536.
- Miller, L.G., Prestwich, S.R., and Griffith, J.L., 1978, INEL/Snake River geothermal drilling and testing plan, INEL- 1 Well, Butte County, Idaho: U.S. Department of Energy, Idaho, IDO-10077.
- Morris, D.A., 1967, Use of chemical radioactive tracers at the National Reactor Testing Station, Idaho, in Geophysical Monograph no. 11, Isotope Techniques in the Hydrologic Cycle: Washington D.C., American Geophysical Union, p. 130-142.
- Morris, D.A., and others, 1963, Hydrology of waste disposal, National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22044, 99 p.

Appendix F

- Morris, D.A., Barraclough, J.T., Chase G.H., Teasdale, W.E., and Jensen, R.G., 1965, Hydrology of subsurface waste disposal, National Reactor Testing Station, Idaho, annual progress report, 1964: U.S. Atomic Energy Commission, Idaho Operations Office Publication, IDO-22047-USGS, 186 p.
- Morris, D.A., Barraclough, J.T., Hogenson, G.M., Shuter, Eugene, Teasdale, W.E., Ralston, D.A., and Jensen, R.G., 1964, Hydrology of subsurface waste disposal, National Reactor Testing Station, Idaho, annual progress report, 1963: U.S. Atomic Energy Commission, Idaho Operations Office Publication, IDO-22046-USGS, 97 p.
- Morris, D.A., Hogenson, G.M., Shuter, Eugene, and Teasdale, W.E., 1963, Hydrology of waste disposal, National Reactor Testing Station, Idaho, annual progress report, 1962: U.S. Atomic Energy Commission, Idaho Operations Office Publication, IDO-22044-USGS, 99 p.
- Morris, D.A., Teasdale, W.E., and others, 1964, Hydrology of subsurface waste disposal, National Reactor Testing Station, Idaho, Annual Progress Report, 1963: U.S. Geological Survey Open-File Report, IDO-22046.
- Nace, R.L., and Jones, J.R., 1950, Reconnaissance of the Geology in the Atomic Reactor-Testing Station, Idaho: IDO- 22012, 19 p.
- Nace, R.L., and Jones, J.R., 1952, Memorandum, geologic and topographic features of the Northeastern part of the National Reactor Testing Station, Idaho: IDO-22020, 8 p.
- Nace, R.L., Stewart, J.W., Walton, W.C., and others, 1959, Geography, geology and water resources of the National Reactor Testing Station, Idaho, Part 3, hydrology and water resources: U.S. Geological Survey, IDO-22034, 253 p.
- Nace, R.L., 1953a, Altitude and configuration of the water table beneath the National Reactor Testing Station, Idaho: U.S. Geological Survey Open- File Report, IDO-22024.
- Nace, R.L., 1949a, Memorandum report on pumping test of Arco Reactor-Testing Station production test well no. 1, with recommendations for well-finishing: U.S. Geological Survey Open-File Report, IDO-22005.
- Nace, R.L., 1952, Investigations at the National Reactor Test Site, Idaho by the U.S. Geological Survey Report of Plans, Progress and Fiscal Status: IDO-22018, 15 p.
- Nace, R.L., 1952c, Water supply and waste disposal at proposed ANPR site, National Reactor Testing Station, Idaho: U.S. Geological Survey, Idaho National Engineering Laboratory, Idaho Falls, Idaho: ID-22021-USGS.
- Nace, R.L., 1955a, Water supply and waste disposal for proposed Engineering Test Reactor, Large Ship Reactor, and Organic-Moderator Reactor Experiment: U.S. Geological Survey, Idaho National Engineering Laboratory, Idaho Falls, Idaho, IDO-22031-USGS.
- Nace, R.L., 1956, Geography, geology, and water resources of the National Reactor Testing Station, Idaho. Part 1: Purpose, history and scope of investigations: IDO-22032, 68 p.

Appendix F

- Nace, R.L., 1961 (Revised 1964), Geography, geology and water resources of the National Reactor Testing Station, Idaho. Part 4: Geologic and hydrologic aspects of waste management, IDO-22035,
- Nace, R.L., and Barraclough, J.T., 1952, Ground-water recharge from the Big Lost River below Arco, Idaho: U.S. Geological Survey Open-File Report: IDO-22016.
- Nace, R.L., and Stewart, J.W., 1951, Memorandum report on results of pumping test on CPP production well no. 1, Atomic Energy Commission Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO- 22010.
- Nace, R.L., and Voegeli, P.T., 1951, Geology and ground water at Site 1 and an adjacent area to the east, Reactor Testing Station, Idaho: IDO-22003, 17 p.
- Nace, R.L., Deutsch, Morris, and Voegeli, P.T., ED. by Seymour Subitzky, 1972, Physical environment of the National Reactor Testing Station, Idaho—a summary: U.S. Geological Survey Professional Paper 725-a, 38 p.
- Nace, R.L., Jones, J.R., Voegeli, P.T., and Morris, Deutsch, 1951, Geology and ground water in the central construction area, Reactor Testing Station, Idaho: IDO-22004, 61 p.
- Nace, R.L., Morris, Deutsch, and Voegeli, P.T., 1956, Geography, geology, and water resources of the National Reactor Testing Station, Idaho, Part 2, Geography and Geology: IDO-22033, 225 p.
- Nace, R.L., Voegeli, P.T., Jones, J.R., and Morris, Deutsch, 1975, Generalized geo framework of the National Reactor Testing Station, Idaho: U.S. Geological Survey Professional Paper 725-b, 49 p.
- Nimmo, J.R., Shakofsky, S.M., Kaminsky, J.F., and Lords, G.S., 2001, Laboratory and field hydrologic characterization of the shallow subsurface at an Idaho National Engineering and Environmental Laboratory waste-disposal site: U.S. Geological Survey Water-Resources Investigations Report 99-4263 (DOE/ID-022163), 31 p.
- Olmsted, F.H., 1962, Chemical and physical character of ground water in the National Reactor Testing Station, Idaho: U.S. Geological Survey Open- File Report, IDO-22043, 142 p.
- Olmsted, F.H., 1964, Relation of percent sodium to source and movement of ground water, National Reactor Testing Station, Idaho, Article 162: U.S. Geological Professional Paper 475-D, p. D186-188.
- Orr, B.R., 1999, A transient numerical simulation of perched ground-water flow at the Test Reactor Area, Idaho National Engineering and Environmental Laboratory, Idaho, 1952-94: U.S. Geological Survey Water- Resources Investigations Report 99-4277 (DOE/ID-22162), 54 p.
- Orr, B.R., and Cecil, L.D., 1991, Hydrologic conditions and distribution of selected chemical constituents in water, Snake River Plain aquifer, Idaho National Engineering Laboratory, Idaho, 1986 to 1988: U.S. Geological Survey Water-Resources Investigations 91-4047 (DOE/ID-22096), 56 p.

Appendix F

- Orr, B.R., Cecil, L.D., and Knobel, L.L., 1991, Background concentrations of selected radionuclides, organic compounds, and chemical constituents in ground water in the vicinity of the Idaho National Engineering Laboratory: U.S. Geological Survey Water-Resources Investigations Report 91-4015 (DOE/ID-22094), 52 p.
- Ott, D.S., Cecil, L.D., and Knobel, L.L., 1994, Stable isotopes of hydrogen and oxygen in surface water and ground water at selected sites on or near the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 94-55 (DOE/ID-22112), 14 p.
- Ott, D.S., Edwards, D.D., and Bartholomay, R.C., 1992, Water-level data for selected wells on or near the Idaho National Engineering Laboratory, Idaho, 1983 through 1990: U.S. Geological Survey Open-File Report 92-643 (DOE/ID-22105), 307 p.
- Pace, M.N., Rosentreter, J.J., and Bartholomay, R.C., 1999, Strontium distribution coefficients of basalt and sediment infill samples from the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 99-4145 (DOE/ID-22158), p. 56.
- Peckham, A.E., 1959, Investigation of underground waste disposal, Chemical Processing Plant Area, National Reactor Testing Station, Idaho: IDO-22039.
- Peckham, A.E., Houston, J.R., and Walker, E.H., 1959, Logs of test holes and wells in the central Snake River Plain, Idaho: IDO-22015 supplement 3, 45 p.
- Perkins, K.S., 2001, Hydrologic and meteorological data for an unsaturated-zone study area near the Radioactive Waste Management Complex, Idaho National Engineering and Environmental Laboratory, Idaho, 1997 to 1999: U.S. Geological Survey Open-File Report 0248 (DOE/ID-22171), 18 p., 1 cd
- Perkins, K.S., and Nimmo, J.R., 2001, Measurement of hydraulic properties of the B-C interbed and their influence on contaminant transport in the unsaturated zone at the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 00-4073 (DOE/ID-22170), 30 p.
- Perkins, K.S., Nimmo, J.R., and Pittman, J.R., 1998, Hydrologic and meteorological data for an unsaturated-zone study area near the Radioactive Waste Management Complex, Idaho National Engineering and Environmental Laboratory, Idaho, 1990-96: U.S. Geological Survey Open-File Report 98-9 ((DOE/ID-22154), 13 p., 1 cd
- Pittman, J.R., 1989, Hydrological and meteorological data for an unsaturated zone study near the Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho—1985-86: U.S. Geological Survey Open-File Report 89-74 (DOE/ID-22079), 175 p.
- Pittman, J.R., Jensen, R.J., and Fischer, P.R., 1988, Hydrologic conditions at the Idaho National Engineering Laboratory, 1982 to 1985: U.S. Geological Survey Water-Resources Investigations Report 89-4008 (DOE/ID-22078), 73 p.
- Polzer, W.L., Percival, D.R., and Barraclough, J.T., 1976, Special analyses for plutonium and americium in water from the Snake River Plain aquifer, IDO-12081-USGS, 9 p.

Appendix F

- Prestwich, S.W., Bowman, J.A., 1980, Completion and testing report; INEL geothermal exploratory well one (INEL- 1): U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, 44 p.
- Reed, Michael F., and Bartholomay, R.C., 1994, Mineralogy of selected sedimentary interbeds at or near the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 94-374 (DOE/ID-22116), 19 p.
- Rightmire, C.T., 1984, Description and hydrogeologic implications of cored sedimentary material from the 1975 drilling program at the Radioactive Waste Management Complex, Idaho: U.S. Geological Water Resources Investigation 84-4071 (IDO-22067), 33 p.
- Rightmire, C.T., and Lewis, B.D., 1987, Geologic data collected and analytical procedures used during a geochemical investigation of the unsaturated zone, Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Open-File Report 87-246 (DOE/ID-22072), 83 p.
- Rightmire, C.T., and Lewis, B.D., 1987, Hydrogeology and geochemistry of the unsaturated zone, Radioactive Waste Management Complex, Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water- Resources Investigations Report 87-4198 (DOE/ID-22073), 89 p.
- Robertson, J.B., 1969, Behavior of Xenon-133 gas after injection underground: Molecular diffusion, materials balance, and barometric pressure effects: U.S. Geological Survey Open-File Report, IDO-22051, 37 p.
- Robertson, J.B., 1974, Application of digital modeling to the prediction of radioisotope migration in ground water: Vienna, Austria, International Atomic Energy Agency Symposium on Isotope Techniques in Groundwater Hydrology, 12 p.
- Robertson, J.B., 1974, Digital modeling of radioactive and chemical waste transport in the Snake River Plain aquifer at the National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22054, 41 p.
- Robertson, J.B., 1977, Numerical modeling of subsurface radioactive solute transport from waste-seepage ponds at the Idaho National Engineering Laboratory: U.S. Geological Survey Open-File Report 76-717 (IDO-22057), 68 p.
- Robertson, J.B., and Barraclough, J.T., 1973, Radioactive- and chemical-waste transport in ground water at National Reactor Testing Station, Idaho: 20-year case history, and digital model: *Underground Waste Management and Artificial Recharge*, v. 1, p. 291-322.
- Robertson, J.B., and Schoen, Robert, 1973, Fluorite equilibria in thermal springs of the Snake River Basin, Idaho, *Jour. Research U.S. Geological Survey*, Vol. 1, No. 3, May-June 1973, p. 367-370
- Robertson, J.B., Schoen, Robert, and Barraclough, J.T., 1974, The influence of liquid waste disposal on the geochemistry of water at the National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO- 22053, 231 p.

Appendix F

- Rosentreter, J.J., Nieves, R., Kalivas, J., Rousseau, J.P., and Bartholomay, R.C., 1999, The use of chemical and physical properties for characterization of strontium distribution coefficients at the Idaho National Engineering and Environmental Laboratory, Idaho: U.S. Geological Survey Open-File Report 99-4123 (DOE/ID-22157), 25 p.
- Schmalz, B.L., 1959, Interim report of liquid waste disposal in the vicinity of the Idaho Chemical Processing Plant: U.S. Geological Survey Open- File Report, IDO-12011, 17 p.
- Schoen, Robert, 1972, Hydrochemical study of the National Reactor Testing Station, Idaho, in Hydrogeology, Section II, International Geology Congress, 24th, Montreal, Canada, p. 306-314.
- Scott, J.H., Zablocki, C.J., and Clayton, G.H., 1979, Geophysical well-logging data exploration well 2-2A, NW1/4, Sec. 15, T. 5 N, R. 31 E., Idaho National Engineering Laboratory, Butte County, Idaho: U.S. Geological Survey Open-File Report 79-1460.
- Shakofsky, Stephanie, 1995, Changes in soil hydraulic properties caused by construction of a simulated waste trench at the Idaho National Engineering Laboratory, Idaho: U.S. Geological Survey Water-Resources Investigations Report 95-4058, DOE/ID-22121.
- Shuter, Eugene and Brandroid, C.E., 1952, Water levels in wells in Bingham, Bonneville and Jefferson Counties, Idaho: U.S. Geological Survey Open-File Report, IDO-22017.
- Shuter, Eugene, and Morris, D.A., 1964, Regional hydrology of the NRTS, Idaho, in Second Annual Engineering Geology and Soils Engineering Symposium, Pocatello, Id., March 23-25, 1964, Proceedings: Idaho State University, p. 63.
- Smith, T.B., Chew, E.W., Hedahl, T.G., Mann, L.J., Pointer, T.F., and Wiersma, G.B., 1986, An overview of environmental surveillance of waste management activities at the Idaho National Engineering Laboratory, in Proceedings for Waste Management '86 Symposium: University of Arizona duplicated report, vol. 1, 186 p.
- Stewart, J.W., 1950, Memorandum report on results of pumping test no. 2 on MTR production well AC1, Arco Reactor-Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22007.
- Stewart, J.W., 1950, Memorandum report on results of pumping test on STR production well 1, Atomic Energy Commission Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22008.
- Stewart, J.W., 1950, Results of pumping test on MRTR production well 1, Arco Reactor-Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22006.
- Stewart, J.W., 1951, Memorandum report on results of discharge-drawdown test on Navy well no. 2, Atomic Energy Commission Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22009.
- Stewart, J.W., 1951, Results of tests on wells at sites 3 and 7, Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22011.
- Stewart, J.W., Nace, R.L., Fowler, K.H., Peckham, A.E., and Voegeli, P.T., 1960, Geography, geology, and water resources of the National Reactor Testing Station, Idaho. Appendix 2: Basic Hydrology Data, IDO-22034,

Appendix F

- Stone, M.A.J., Mann, L.J., and Kjelstrom, L.C., 1990, Statistical summaries of streamflow data for selected gaging stations on and near the Idaho National Engineering Laboratory, Idaho, through September 1990: U.S. Geological Survey Water-Resources Investigations Report 92-4196 (DOE/ID-22109), 35 p.
- Travis, Wayne I, 1955, Progress report on operations of stream-gaging station, Big Lost River near Arco, Idaho, water year 1954: U.S. Geological Survey Open-File Report, IDO-22030.
- Travis, Wayne I., 1954, Progress report on operations of stream gaging station, Big Lost River near Arco, Idaho, water year 1953: U.S. Geological Survey Open-File Report, IDO-22029.
- Tucker, B.J., and Orr, B.R., 1998, Distribution of selected radiochemical and chemical constituents in perched ground water, Idaho National Engineering Laboratory, Idaho, 1991-93, U.S. Geological Survey Water- Resources Investigations Report 92-4196 (DOE/ID-22144), 62 p.
- Tucker, B.J., Knobel, L.L., and Bartholomay, R.C., 1995, Chemical constituents in water from wells in the vicinity of the Naval Reactors Facility, Idaho National Engineering Laboratory, Idaho, 1991-93, U.S. Geological Survey Open-File Report 95-725 (DOE/ID-22125) 94 p.
- Voegeli, P.T. and Crow, N.B., 1954, Logs of test holes and wells in the central Snake River Plain, Idaho: IDO-22015 Supplement 2, 30 p.
- Voegeli, P.T., and Deutsch, Morris, 1953, Geology, water supply, and waste disposal at Sites 11 and 11A, burial ground D, and vicinity, National Reactor Testing Station, Idaho: IDO-22027, 42 p.
- Voegeli, P.T., and West, S.W., 1953, Potential construction sites in the central western part of the National Reactor Testing Station, Idaho: IDO-22025, 9 p.
- Walker, E.H., 1960, Analysis of aquifer test, January 1958-June 1959, at the National Reactor Testing Station, Idaho: U.S. Geological Survey Open-File Report, IDO-22040.
- Walker, E.H., 1964, subsurface geology of the National Reactor Testing Station, Idaho: U.S. Geological Survey Bulletin 1133-3, 22 p.
- Walker, E.H., 1964, Subsurface geology of the National Reactor Testing Station, Idaho, Studies of sites for nuclear energy facilities,
- Wegner, S.J., 1989, Selected quality assurance data for water samples collected by the U.S. Geological Survey, Idaho National Engineering Laboratory, Idaho, 1980 to 1988: U.S. Geological Survey Water- Resources Investigations Report 89-4168 (DOE/ID-22085), 91 p.
- Wegner, S.J., and Campbell, L.J., 1991, Radionuclides, chemical constituents, and organic compounds in water from designated wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1989: U.S. Geological Survey Open-File Report 91-232 (DOE/ID-22098), 49 p.

Appendix F

- Williams, L.M., 1997, Evaluation of quality assurance/quality control data collected by the U.S. Geological Survey for water-quality activities at the Idaho National Engineering Laboratory, Idaho, 1994 through 1995: U.S. Geological Survey Water-Resources Investigations Report 97-4058 (DOE/ID-22136), 87 p.
- Williams, L.M., Bartholomay, R.C., and Campbell, L.J., 1998, Evaluation of quality-assurance/quality control data collected by the U.S. Geological Survey from wells and springs between the southern boundary of the Idaho national Engineering and Environmental Laboratory and the Hagerman Area, Idaho, 1989 through 1995: U.S. Geological Survey Water-Resources Investigations Report 98-4206 (DOE/ID-22150), 83 p.

Appendix G

Appendix G

**Fish stocking by Idaho Department of Fish and Game
in Closed Basin Waters 1998-2000.**

STREAM	DATE PLANTED	SPECIES	SIZE	NUMBER PLANTED
PASS CREEK L	9/10/1999	HENRYS LAKE CUTTHROAT	FRY ^a	1000
SWAUGER L (UPPER)	8/26/1999	HENRYS LAKE CUTTHROAT	FRY	3000
MILL CREEK L	8/27/1999	HENRYS LAKE CUTTHROAT	FRY	2000
BROCKIE L	8/14/1998	HENRYS LAKE CUTTHROAT	FRY	1500
IRON BOG L #01	8/20/1998	REDBAND TROUT	FRY	3500
FISH POLE L	8/20/1998	HENRYS LAKE CUTTHROAT	FRY	2500
MACKAY RES	5/12/1998	DOMESTIC KAMLOOPS	CAT ^c	7590
MACKAY RES	5/21/1998	ARLEE RAINBOW	CAT	756
MACKAY RES	6/5/1998	ARLEE RAINBOW	CAT	1911
MACKAY RES	6/9/1998	ARLEE RAINBOW	CAT	1008
MACKAY RES	6/11/1998	ARLEE RAINBOW	CAT	1523
MACKAY RES	6/11/1998	ARLEE RAINBOW	CAT	1911
MACKAY RES	6/19/1998	ARLEE RAINBOW	CAT	1890
MACKAY RES	6/26/1998	ARLEE RAINBOW	CAT	1892
MACKAY RES	7/2/1998	ARLEE RAINBOW	CAT	1880
MACKAY RES	7/10/1998	ARLEE RAINBOW	CAT	1890
MACKAY RES	7/16/1998	ARLEE RAINBOW	CAT	1920
MACKAY RES	7/30/1998	ARLEE RAINBOW	CAT	1880
MACKAY RES	12/18/1998	ARLEE RAINBOW	ADULT	100
MACKAY RES	5/7/1999	ARLEE RAINBOW	CAT	1711
MACKAY RES	5/14/1999	ARLEE RAINBOW	CAT	1870
MACKAY RES	5/21/1999	ARLEE RAINBOW	CAT	1875
MACKAY RES	5/25/1999	ARLEE RAINBOW	CAT	2720
MACKAY RES	5/25/1999	ARLEE RAINBOW	FIN ^b	41600
MACKAY RES	6/4/1999	ARLEE RAINBOW	CAT	1875
MACKAY RES	6/11/1999	ARLEE RAINBOW	CAT	1880
MACKAY RES	6/18/1999	ARLEE RAINBOW	CAT	1680
MACKAY RES	6/18/1999	ARLEE RAINBOW	CAT	1785
MACKAY RES	6/25/1999	ARLEE RAINBOW	CAT	1875
MACKAY RES	6/25/1999	ARLEE RAINBOW	CAT	1575
MACKAY RES	5/1/2000	ARLEE RAINBOW	CAT	1800
MACKAY RES	5/12/2000	ARLEE RAINBOW	CAT	1763
MACKAY RES	5/19/2000	ARLEE RAINBOW	CAT	1750
MACKAY RES	5/24/2000	ARLEE RAINBOW	CAT	2500
MACKAY RES	6/2/2000	ARLEE RAINBOW	CAT	1750
MACKAY RES	6/10/2000	ARLEE RAINBOW	CAT	1750
MACKAY RES	6/16/2000	ARLEE RAINBOW	CAT	1750
MACKAY RES	6/23/2000	ARLEE RAINBOW	CAT	1750
MACKAY RES	7/7/2000	ARLEE RAINBOW	CAT	1750
MACKAY RES	7/14/2000	ARLEE RAINBOW	CAT	1260
MACKAY RES	7/20/2000	ARLEE RAINBOW	FIN	18525

Appendix G

STREAM	DATE PLANTED	SPECIES	SIZE	NUMBER PLANTED
MACKAY RES	7/21/2000	ARLEE RAINBOW	CAT	1510
MACKAY RES	7/28/2000	ARLEE RAINBOW	CAT	1750
MACKAY RES	10/25/2000	DOMESTIC KAMLOOPS	FRY	10217
MACKAY RES	10/25/2000	HENRYS LAKE CUTTHROAT	FRY	1250
GRANT CREEK L	9/13/1999	HENRYS LAKE CUTTHROAT	FRY	1000
BOULDER L	8/19/2000	HENRYS LAKE CUTTHROAT	FRY	1500
BOULDER L #01	8/19/2000	HENRYS LAKE CUTTHROAT	FRY	500
WASHINGTON L	8/19/2000	UNSPECIFIED RAINBOW	FRY	500
ARROWHEAD L	8/25/2000	HENRYS LAKE CUTTHROAT	FRY	2000
AIRPLANE L	8/22/1998	REDBAND TROUT	FRY	500
AIRPLANE L	8/31/2000	GOLDEN TROUT	FRY	1233
ANGEL L	8/7/1998	REDBAND TROUT	FRY	500
ANGEL L	8/31/2000	GOLDEN TROUT	FRY	1233
FALL CREEK L #01	8/31/2000	GOLDEN TROUT	FRY	462
BELLAS CANYON L #01	8/26/2000	HENRYS LAKE CUTTHROAT	FRY	1500
CORRAL L	9/4/1999	HENRYS LAKE CUTTHROAT	FRY	1000
BIG L	8/22/1998	HENRYS LAKE CUTTHROAT	FRY	3500
ROUGH L	9/11/1998	HENRYS LAKE CUTTHROAT	FRY	2650
LONG L	9/5/1998	REDBAND TROUT	FRY	3000
LAKE CREEK L #11	9/18/1998	REDBAND TROUT	FRY	500
ROUND L	8/29/1998	GRAYLING	FRY	1500
CLEAR L	8/28/2000	HENRYS LAKE CUTTHROAT	FRY	500
BENCH L	8/28/2000	UNSPECIFIED RAINBOW	FRY	500
BETTY L	8/28/2000	HENRYS LAKE CUTTHROAT	FRY	2500
GOAT L	8/28/2000	HENRYS LAKE CUTTHROAT	FRY	2000
GREEN L	8/11/1998	GRAYLING	FRY	1000
GREEN L	8/11/1998	HENRYS LAKE CUTTHROAT	FRY	1000
KANE CANYON L	10/6/2000	HENRYS LAKE CUTTHROAT	FRY	1500
BIG FALL CREEK L	8/19/2000	HENRYS LAKE CUTTHROAT	FRY	1500
RAMEY L	10/19/2000	HENRYS LAKE CUTTHROAT	FRY	500
BIRCH CR	5/22/1998	MT LASSEN RAINBOW	CAT	200
BIRCH CR	5/22/1998	ARLEE RAINBOW	CAT	3600
BIRCH CR	5/22/1998	MT LASSEN RAINBOW	CAT	200
BIRCH CR	5/22/1998	MT LASSEN RAINBOW	CAT	200
BIRCH CR	6/5/1998	ARLEE RAINBOW	CAT	1001
BIRCH CR	6/19/1998	ARLEE RAINBOW	CAT	1026
BIRCH CR	7/2/1998	ARLEE RAINBOW	CAT	1034
BIRCH CR	7/17/1998	ARLEE RAINBOW	CAT	1100
BIRCH CR	8/14/1998	ARLEE RAINBOW	CAT	540
BIRCH CR	5/26/1999	ARLEE RAINBOW	CAT	1105
BIRCH CR	5/28/1999	ARLEE RAINBOW	CAT	5100
BIRCH CR	6/11/1999	ARLEE RAINBOW	CAT	1875
BIRCH CR	6/25/1999	ARLEE RAINBOW	CAT	1950
BIRCH CR	7/9/1999	ARLEE RAINBOW	CAT	1487
BIRCH CR	7/23/1999	ARLEE RAINBOW	CAT	1507
BIRCH CR	8/20/1999	ARLEE RAINBOW	CAT	756
BIRCH CR	8/27/1999	ARLEE RAINBOW	CAT	400
BIRCH CR	5/26/2000	ARLEE RAINBOW	CAT	622
BIRCH CR	5/26/2000	ARLEE RAINBOW	CAT	2654

Appendix G

STREAM	DATE PLANTED	SPECIES	SIZE	NUMBER PLANTED
BIRCH CR	5/26/2000	ARLEE RAINBOW	CAT	1632
BIRCH CR	6/16/2000	ARLEE RAINBOW	CAT	1700
BIRCH CR	6/30/2000	ARLEE RAINBOW	CAT	1728
BIRCH CR	7/14/2000	ARLEE RAINBOW	CAT	1365
BIRCH CR	7/27/2000	ARLEE RAINBOW	CAT	1350
BIRCH CR	8/11/2000	ARLEE RAINBOW	CAT	675
BIRCH CR	8/25/2000	ARLEE RAINBOW	CAT	675
BIG SPRINGS CR	5/13/1998	ARLEE RAINBOW	CAT	1139
BIG SPRINGS CR	5/25/2000	ARLEE RAINBOW	CAT	994
BIG LOST R	6/9/1998	ARLEE RAINBOW	CAT	578
BIG LOST R	6/22/1998	ARLEE RAINBOW	CAT	1050
BIG LOST R	7/7/1998	ARLEE RAINBOW	CAT	585
BIG LOST R	7/21/1998	ARLEE RAINBOW	CAT	1013
BIG LOST R	7/13/1999	ARLEE RAINBOW	CAT	340
BIG LOST R	7/20/1999	ARLEE RAINBOW	CAT	612
BIG LOST R	6/13/2000	ARLEE RAINBOW	CAT	500
BIG LOST R	6/26/2000	ARLEE RAINBOW	CAT	500
BIG LOST R	7/10/2000	ARLEE RAINBOW	CAT	500
BIG LOST R	7/24/2000	ARLEE RAINBOW	CAT	500
ANTELOPE CR	6/22/1998	ARLEE RAINBOW	CAT	578
ANTELOPE CR	7/7/1998	ARLEE RAINBOW	CAT	1000
ANTELOPE CR	7/21/1998	ARLEE RAINBOW	CAT	600
ANTELOPE CR	7/13/1999	ARLEE RAINBOW	CAT	1190
ANTELOPE CR	7/20/1999	ARLEE RAINBOW	CAT	956
ANTELOPE CR	6/13/2000	ARLEE RAINBOW	CAT	900
ANTELOPE CR	6/26/2000	ARLEE RAINBOW	CAT	900
ANTELOPE CR	7/10/2000	ARLEE RAINBOW	CAT	900
ANTELOPE CR	7/24/2000	ARLEE RAINBOW	CAT	900
E F BIG LOST R	6/25/1998	ARLEE RAINBOW	CAT	340
E F BIG LOST R	7/9/1998	ARLEE RAINBOW	CAT	378
E F BIG LOST R	7/23/1998	ARLEE RAINBOW	CAT	375
E F BIG LOST R	8/10/1998	ARLEE RAINBOW	CAT	375
E F BIG LOST R	8/27/1998	ARLEE RAINBOW	CAT	375
E F BIG LOST R	10/2/1998	COLORADO RIVER RAINBOW	FRY	14608
E F BIG LOST R	6/15/1999	ARLEE RAINBOW	CAT	319
E F BIG LOST R	7/2/1999	ARLEE RAINBOW	CAT	325
E F BIG LOST R	7/8/1999	ARLEE RAINBOW	CAT	340
E F BIG LOST R	7/22/1999	ARLEE RAINBOW	CAT	331
E F BIG LOST R	8/10/1999	ARLEE RAINBOW	CAT	325
E F BIG LOST R	8/24/1999	ARLEE RAINBOW	CAT	225
E F BIG LOST R	6/14/2000	ARLEE RAINBOW	CAT	350
E F BIG LOST R	6/27/2000	ARLEE RAINBOW	CAT	350
WILDHORSE CR	6/25/1998	ARLEE RAINBOW	CAT	340
WILDHORSE CR	7/9/1998	ARLEE RAINBOW	CAT	500
WILDHORSE CR	7/23/1998	ARLEE RAINBOW	CAT	520
WILDHORSE CR	8/10/1998	ARLEE RAINBOW	CAT	500
WILDHORSE CR	8/27/1998	ARLEE RAINBOW	CAT	500
WILDHORSE CR	6/15/1999	ARLEE RAINBOW	CAT	319
WILDHORSE CR	7/2/1999	ARLEE RAINBOW	CAT	325

Appendix G

STREAM	DATE PLANTED	SPECIES	SIZE	NUMBER PLANTED
WILDHORSE CR	7/8/1999	ARLEE RAINBOW	CAT	510
WILDHORSE CR	7/22/1999	ARLEE RAINBOW	CAT	517
WILDHORSE CR	8/10/1999	ARLEE RAINBOW	CAT	487
WILDHORSE CR	8/24/1999	ARLEE RAINBOW	CAT	350
WILDHORSE CR	6/14/2000	ARLEE RAINBOW	CAT	450
WILDHORSE CR	6/27/2000	ARLEE RAINBOW	CAT	450
WILDHORSE CR	7/11/2000	ARLEE RAINBOW	CAT	450
WILDHORSE CR	7/25/2000	ARLEE RAINBOW	CAT	450
WILDHORSE CR	8/17/2000	ARLEE RAINBOW	CAT	600
WILDHORSE CR	8/31/2000	ARLEE RAINBOW	CAT	600
W F BIG LOST R	6/25/1998	ARLEE RAINBOW	CAT	630
W F BIG LOST R	7/9/1998	ARLEE RAINBOW	CAT	600
W F BIG LOST R	7/23/1998	ARLEE RAINBOW	CAT	600
W F BIG LOST R	8/10/1998	ARLEE RAINBOW	CAT	600
W F BIG LOST R	8/27/1998	ARLEE RAINBOW	CAT	600
W F BIG LOST R	6/15/1999	ARLEE RAINBOW	CAT	600
W F BIG LOST R	7/2/1999	ARLEE RAINBOW	CAT	600
W F BIG LOST R	7/8/1999	ARLEE RAINBOW	CAT	595
W F BIG LOST R	7/22/1999	ARLEE RAINBOW	CAT	588
W F BIG LOST R	8/10/1999	ARLEE RAINBOW	CAT	540
W F BIG LOST R	8/24/1999	ARLEE RAINBOW	CAT	400
W F BIG LOST R	6/14/2000	ARLEE RAINBOW	CAT	500
W F BIG LOST R	6/27/2000	ARLEE RAINBOW	CAT	500
W F BIG LOST R	7/11/2000	ARLEE RAINBOW	CAT	500
W F BIG LOST R	7/25/2000	ARLEE RAINBOW	CAT	500
W F BIG LOST R	8/17/2000	ARLEE RAINBOW	CAT	500
W F BIG LOST R	8/31/2000	ARLEE RAINBOW	CAT	500
W F BIG LOST R	9/7/2000	FINE SPOTTED CUTTHROAT	CAT	1000
W F BIG LOST R	9/7/2000	FINE SPOTTED CUTTHROAT	CAT	1000
W F BIG LOST R	9/18/2000	FINE SPOTTED CUTTHROAT	CAT	1000
W F BIG LOST R	9/18/2000	FINE SPOTTED CUTTHROAT	CAT	1000
LAKE CR	9/7/2000	FINE SPOTTED CUTTHROAT	CAT	1500
LAKE CR	9/18/2000	FINE SPOTTED CUTTHROAT	CAT	1000
MULDOON CANYON	9/7/2000	FINE SPOTTED CUTTHROAT	CAT	1500
MULDOON CANYON	9/18/2000	FINE SPOTTED CUTTHROAT	CAT	1000
N F BIG LOST R	6/25/1998	ARLEE RAINBOW	CAT	340
N F BIG LOST R	7/9/1998	ARLEE RAINBOW	CAT	378
N F BIG LOST R	7/23/1998	ARLEE RAINBOW	CAT	376
N F BIG LOST R	8/10/1998	ARLEE RAINBOW	CAT	375
N F BIG LOST R	8/27/1998	ARLEE RAINBOW	CAT	375
N F BIG LOST R	6/15/1999	ARLEE RAINBOW	CAT	255
N F BIG LOST R	7/2/1999	ARLEE RAINBOW	CAT	250
N F BIG LOST R	7/8/1999	ARLEE RAINBOW	CAT	340
N F BIG LOST R	7/22/1999	ARLEE RAINBOW	CAT	331
N F BIG LOST R	8/10/1999	ARLEE RAINBOW	CAT	325
N F BIG LOST R	8/24/1999	ARLEE RAINBOW	CAT	225
N F BIG LOST R	6/14/2000	ARLEE RAINBOW	CAT	225
N F BIG LOST R	6/27/2000	ARLEE RAINBOW	CAT	225
N F BIG LOST R	7/11/2000	ARLEE RAINBOW	CAT	350

Appendix G

STREAM	DATE PLANTED	SPECIES	SIZE	NUMBER PLANTED
MUD L	8/28/1998	TIGER MUSKIE	FIN	34620
MUD L	9/1/1998	LAHONTAN CUTTHROAT	FRY	15540
MUD L	9/1/1998	LAHONTAN CUTTHROAT	FIN	51150
MUD L	8/27/1999	TIGER MUSKIE	FIN	35945
MUD L	9/6/2000	LAHONTAN CUTTHROAT	FIN	50400
MICKYS L	8/21/1999	HENRYS LAKE CUTTHROAT	FRY	1500
HANCOCK L	8/21/1999	HENRYS LAKE CUTTHROAT	FRY	500
SALAMANDER L	8/21/1999	HENRYS LAKE CUTTHROAT	FRY	1000
DIVIDE CREEK L	9/3/1999	HENRYS LAKE CUTTHROAT	FIN	1039
PAUL RES	9/8/1998	HENRYS LAKE CUTTHROAT	FRY	2585
PAUL RES	9/7/1999	HENRYS LAKE CUTTHROAT	FIN	2499
PAUL RES	9/7/1999	HENRYS LAKE CUTTHROAT	CAT	1289
CAMAS CR	1/28/1999	BROWN TROUT	CAT	2430
CAMAS CR	1/29/1999	BROWN TROUT	CAT	4617
BEAVER CR	5/20/1998	HAYSPUR RAINBOW	CAT	1001
BEAVER CR	6/15/1998	HAYSPUR RAINBOW	CAT	1001
BEAVER CR	7/6/1998	HAYSPUR RAINBOW	CAT	1008
BEAVER CR	5/26/1999	HAYSPUR RAINBOW	CAT	1025
BEAVER CR	6/21/1999	HAYSPUR RAINBOW	CAT	1012
BEAVER CR	7/7/1999	HAYSPUR RAINBOW	CAT	997
BEAVER CR	5/25/2000	HAYSPUR RAINBOW	CAT	903
BEAVER CR	6/29/2000	HAYSPUR RAINBOW	CAT	904
BEAVER CR	7/19/2000	HAYSPUR RAINBOW	CAT	896

^a Fry (0 – 3 Inches)

^b Fingerlings (3 – 6 inches)

^c Catchable (> 6 inches)

Environmental Science and Research Foundation, Inc.

ESRF-038

Publications of the Environmental Science and Research Foundation

**D. Katie Dimick
Amy Adams Luft
Randall C. Morris, Ph.D.
Jeanne F. Jensen
Melissa R. Harwood**

**Environmental Science and Research Foundation, Inc.
O. Doyle Markham, Executive Director
July 2000**

Environmental Science and Research Foundation, Inc.
101 S. Park Avenue, Suite 2; P.O. Box 51838
Idaho Falls, ID 83405-1838
(208) 525-7038
<http://esrf.org>

Introduction

This report lists publications resulting from research, surveillance, and education activities conducted by the Environmental Science and Research Foundation, Inc. and its university affiliates for the U.S. Department of Energy-Idaho Operations Office. Also included are publications of the Radioecology and Ecology Program which was managed by current Foundation staff and partially staffed by current Environmental Science and Research Foundation personnel from 1974 to 1993. From 1974 through May 2000, 429 publications resulted from research conducted by these programs.

Publications of the Environmental Science and Research Foundation, Inc.

Publications in Press

- Bromenshenk, J. J., J. L. Gudatis, and R. C. Cronn. In Press. Post-closure assessments of industrial complexes with honey bees. *Environmental Contamination and Toxicology*.
- Burger, J., J. Sanchez, D. Roush, Jr., and M. Gochfeld. In Press. Risk concerns, land use, and the Idaho National Engineering and Environmental Laboratory: attitudes of the Shoshone-Bannock and other American Indians. *Environmental Research*.
- Cronn, R. C. and J. J. Bromenshenk. In Press. Radionuclide accumulation in honey bees at the Idaho National Engineering Laboratory. *Journal of Environmental Quality*.
- Gabler, K. I., L. T. Heady, and J. W. Laundré. In Press. Using a geographic information system analysis to predict rabbit distribution. *Journal of Wildlife Management*.
- Peek, J. M., K. T. Schmidt, M. J. Dorrance, and B. L. Smith. In Press. Supplemental feeding and farming of elk *in* Elk of North America: ecology and management. Wildlife Management Institute.

2000

- Burger, J., D. E. Roush, Jr., J. Sanchez, J. Ondrof, R. Ramos, J. J. McMahon, and M. Gochfeld. 2000. Attitudes and perceptions about ecological resources, hazards, and future land use of people living near the Idaho National Engineering and Environmental Laboratory. *Environmental Monitoring and Assessment* 60:145-161.
- Dimick, D. K., A. A. Luft, R. C. Morris, J. F. Jensen, and M. R. Harwood, eds. 2000. Publications of the Environmental Science and Research Foundation, ESRF-038. Environmental Science and Research Foundation, Idaho Falls, Idaho.
- Evans, R. B. 2000. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report: third quarter 1999. ESRF-035 (3QT99). Environmental Science and Research Foundation, Idaho Falls, Idaho. 21 pp.
- Luft, A. A. 2000. Pronghorn—one of a kind. *Windows to Wildlife* 7(1)5.
- Luft, A. A., R. B. Evans, T. Saffle, R. G. Mitchell, and D. B. Martin. 2000. In summary:

Appendix H

- Idaho National Engineering and Environmental Laboratory site environmental report for calendar year 1999. ESRF-036. Environmental Science and Research Foundation, Idaho Falls, Idaho. 22 pp.
- Luft, A. A. and R. W. Warren, eds. 2000. Environmental Science and Research Foundation to DOE-ID: calendar year 1999. ESRF-037. Environmental Science and Research Foundation, Idaho Falls, Idaho. 104 pp.
- Reynolds, T. D., and J. E. Anderson. 2000. Response of three evapotranspiration cap designs to the addition of copious supplemental water. Technology Information Exchange Quarterly. U.S. Department of Energy Office of Environmental Restoration 8:6.
- Saffle, T. R., R. B. Evans, R. G. Mitchell, D. B. Martin, and B. Jonker. 2000. INEEL site environmental report for calendar year 1998. ESRF-034/DOE-ID-12082 (98). Environmental Science and Research Foundation, Idaho Falls, Idaho. 186 pp.
- 1999**
- Anderson, J. E. 1999. The Idaho National Engineering Laboratory: an ecological treasure on the upper Snake River Plain. *Rangelands* 21:11-17.
- Beaver, D. E. 1999. Habitat use and patch selectivity by mule deer in a sagebrush-steppe environment of southeast Idaho. M. S. Thesis. University of Idaho, Moscow. 82 pp.
- Bent, G. C., B. F. Goff, K. G. Rightmire, and R. C. Sidle. 1999. Runoff and erosion response of simulated waste burial covers in a semi-arid environment. *Journal of American Water Resources Association* 35:441-455.
- Burger, J., D. Roush, Jr., D. Wartenberg, and M. Gochfield. 1999. Future land use and concerns about the Idaho National Engineering and Environmental Laboratory: perceptions and concerns of urban dwellers. *Environmental Management* 24:541-551.
- Cobb, V. A. and C. R. Peterson. 1999. *Crotalus viridis lutosus*—mortality. *Herpetological Review* 30 (1):45-46.
- Duffin, E. 1999. Evaluating snowmelt erosion in a sagebrush steppe ecosystem. M. S. Thesis. Utah State University, Logan. 159 pp.
- Evans, R. B. 1999. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report: first quarter 1999. ESRF-035 (1QT99). Environmental Science and Research Foundation, Idaho Falls, Idaho. 16 pp.
- Evans, R. B. 1999. INEEL offsite environmental surveillance program report: second quarter 1999. ESRF-035 (2QT99). Environmental Science and Research Foundation, Idaho Falls, Idaho. 20 pp.
- Laundré, J. W. 1999. Relationships between water availability, carbon isotope discrimination and plant productivity in two semi-arid grass and shrub species. *Journal of Arid Environments* 41:49-59.
- Luft, A. E. A. 1999. Pronghorn: one of a kind. *The Retort: Newsletter of the Idaho Academy of Science*. 35(4):16-17.
- Morris, R. C. and R. L. VanHorn. 1999. Screening risks to terrestrial vertebrates from radionuclide contamination in soil and water. Proceedings of Waste Management 99 Conference, Tucson, Arizona.
- Reynolds, T. D., T. D. Rich, and D. A. Stephens. 1999. Sage Thrasher (*Oreoscoptes*

Appendix H

- montanus*). The Birds of North America, Philadelphia, Pennsylvania. 24 pp.
- Saffle, T. R. and R. B. Evans. 1999. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report: third quarter 1998. ESRF-029 (3QT98). Environmental Science and Research Foundation, Idaho Falls, Idaho. 18 pp.
- Saffle, T. R. and Evans, R. B. 1999. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report: fourth quarter 1998. ESRF-029 (4QT98). Environmental Science and Research Foundation, Idaho Falls, Idaho. 18 pp.
- Strohmeier, D. C., J. M. Peek, and T. R. Bowlin. 1999. Wapiti bed sites in Idaho sagebrush steppe. *Wildlife Society Bulletin* 27:547-551.
- Weigmann, D. and R. D. Blew, eds. 1999. Environmental Science and Research Foundation annual technical report to DOE-ID: calendar year 1998. ESRF-033. Environmental Science and Research Foundation, Idaho Falls, Idaho. 100 pp.

1998

- Anderson, J. E. and T. D. Reynolds. 1998. Comparative performance of four evapotranspiration caps for waste isolation. *Eos, Transactions of American Geophysical Union* 79 (45 Supplement):341-342
- Belthoff, J. R., L. R. Powers, and T. D. Reynolds. 1998. Breeding birds at the Idaho National Engineering and Environmental Laboratory, 1985-1991. *Great Basin Naturalist* 58:167-183.
- Clark, W. H. 1998. Ants! What good are they? *Windows to Wildlife* 5 (4):1-2, 5.
- Clark, W. H. 1998. Ants? Bill Clark has a quarter million of them. *Quest* 10 (2):23.
- Evans, R. B., D. Roush, R. W. Brooks, D. B. Martin, and B. S. Lantz. 1998. Idaho National Engineering and Environmental site environmental report for calendar year 1997. ESRF-30; DOE/ID-12082(97). Environmental Science and Research Foundation, Idaho Falls, Idaho. 150 pp.
- Fahler, N. A. 1998. Owls of the Idaho National Engineering and Environmental Laboratory (INEEL). M. S. Thesis. South Dakota State University, Brookings. 97 pp.
- Gaglio, M. D., W. P. MacKay, E. E. Osorio, and I. Iniguez. 1998. Nest populations of *Pogonomyrmex salinus* harvester ants (Hymenoptera: formicidae). *Sociobiology* 32:459-463.
- Hales, E., T. Saffle, and R. Evans. 1998. INEEL offsite environmental surveillance program report: first quarter 1998. ESRF-029(1QT98). Environmental Science and Research Foundation, Idaho Falls, Idaho. 17 pp.
- Hampton, N. L., R. C. Morris, and R. L. VanHorn. 1998. Methodology for conducting screening-level ecological risk assessments for hazardous waste sites. Part II: grouping ecological components. *International Journal of Environment and Pollution* 9:47-61.
- Haymond, S. 1998. Summer habitat use by three Vespertilionid bats in sagebrush-steppe in southeastern Idaho. M. S. Thesis. Brigham Young University, Provo, Utah. 36 pp.
- Heady, L. T. 1998. Home range, habitat, and activity patterns of pygmy rabbits (*Brachylagus idahoensis*) in southeast Idaho. M. S. Thesis. Idaho State University, Pocatello. 72 pp.

Appendix H

- Horman, C. S. and J. Glennon. 1998. Long-term vegetation trend monitoring report: Craters of the Moon National Monument. ESRF-032. Environmental Science and Research Foundation, Idaho Falls, Idaho. 22 pp.
- Laundré, J. W. 1998. Effect of ground squirrel burrows on plant productivity in a cool desert environment. *Journal of Range Management* 51:638-643.
- Mitchell, R. G., D. E. Roush, Jr. and R. B. Evans. 1998. In summary: INEEL site environmental report for calendar year 1997. ESRF-031. Environmental Science and Research Foundation, Idaho Falls, Idaho. 19 pp.
- Morris, R. C. 1998. Publications of the Environmental Science and Research Foundation, 1994-1997. ESRF-028. Environmental Science and Research Foundation, Idaho Falls, Idaho. 8 pp.
- Peterson, D., R. Brooks, and D. Roush, Jr. 1998. Idaho Engineering and Environmental Laboratory offsite environmental surveillance program report: second quarter 1997. ESRF-021(2QT97). Environmental Science and Research Foundation, Idaho Falls, Idaho. 22 pp.
- Reynolds, T. D. and R. W. Warren, eds. 1998. Environmental Science and Research Foundation annual technical report to DOE-ID: calendar year 1997. ESRF-027. Environmental Science and Research Foundation, Idaho Falls, Idaho. 101 pp.
- Roush, D. 1998. Magazines as a medium for environmental communications *in* Proceedings of Fourth Biennial Conference on Communication and Environment, Syracuse, New York.
- Roush, D. E., Jr. and D. E. Beaver. 1998. Landowner and permit-holder perceptions of wildlife damage around the INEEL. ESRF-025. Environmental Science and Research Foundation, Idaho Falls, Idaho. 32 pp.
- Saffle, T., R. Evans, and R. Brooks. 1998. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report: third quarter 1997. ESRF-021 (3QT97). Environmental Science and Research Foundation, Idaho Falls, Idaho. 19 pp.
- Saffle, T. and R. Evans. 1998. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report: fourth quarter 1997. ESRF-021 (4QT97). Environmental Science and Research Foundation, Idaho Falls, Idaho. 21 pp.
- Sperber, T. D., T. D. Reynolds, and R. P. Breckenridge, eds. 1998. Workshop proceedings: developing the scientific basis for supporting long-term land management of the Idaho National Engineering and Environmental Laboratory. Environmental Science and Research Foundation, Idaho Falls, Idaho. 24 pp.
- VanHorn, R. L., N. L. Hampton, and R. C. Morris. 1998. Methodology for conducting screening-level ecological risk assessments for hazardous waste sites Part I: overview. *International Journal of Environment and Pollution* 9:26-46.

1997

- Anderson, J. E. 1997. An ecological engineering approach for keeping water from reaching interred wastes in arid or semi-arid regions. Pages 243-251 *in* Proceedings of 1997 International Containment Technology Conference, Saint Petersburg, Florida.
- Brooks, R., R. Mitchell, D. Roush, and D. Peterson. 1997. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report:

Appendix H

- fourth quarter of 1996. ESRF-016(4QT96). Environmental Science and Research Foundation, Idaho Falls, Idaho. 33 pp.
- Brooks, R., D. Peterson, and D. Roush. 1997. Idaho National Engineering and Environmental Laboratory offsite environmental surveillance program report: first quarter 1997. ESRF-021 (1QT97). Environmental Science and Research Foundation, Idaho Falls, Idaho. 25 pp.
- Cieminski, K. L. and L. D. Flake. 1997. Mule deer and pronghorn use of wastewater ponds in a cold desert. *Great Basin Naturalist* 57:327-337.
- Cooper, S. L. 1997. Idaho Native Species Account: Great Basin Spadefoot (*Spea intermontanus*). Idaho Herpetological Society Newsletter 9:7-9.
- Ibrahim, S. A. and R. C. Morris. 1997. Distribution of plutonium among soil phases near a subsurface disposal area in southeastern Idaho, United States of America. *Journal of Radioanalytical and Nuclear Chemistry* 226:217-220.
- Laundré, J. W. 1997. The impact of a shallow biobarrier on water recharge patterns in a semi-arid environment. Pages 270-274 in *Proceedings of 1997 International Containment Technology Conference*, St. Petersburg, Florida.
- Miller, M. 1997. Benefits of an evergreen canopy: seasonal photosynthetic rates of evergreen leaves of *Artemisia tridentata*. D. A. Thesis. Idaho State University, Pocatello. 29 pp.
- Mitchell, R. G., R. W. Brooks, D. Peterson, L. R. Paulus, D. Roush, D. B. Martin, and B. S. Lantz. 1997. Idaho National Engineering Laboratory site environmental report for calendar year 1996. ESRF-018; DOE/ID-12082 (96). Environmental Science and Research Foundation, Idaho Falls, Idaho. 189 pp.
- Mitchell, R. G., D. E. Roush, Jr., and D. S. Peterson. 1997. In summary: Idaho National Engineering Laboratory site environmental report for calendar year 1996. ESRF-022. Environmental Science and Research Foundation, Idaho Falls, Idaho. 19 pp.
- Morris, R. C. and R. D. Blew, eds. 1997. Environmental Science and Research Foundation annual technical report to DOE-ID: calendar year 1996. ESRF-017. Environmental Science and Research Foundation, Idaho Falls, Idaho. 187 pp.
- Peterson, D., R. Mitchell, and D. Roush. 1997. Idaho National Engineering and Environmental offsite environmental surveillance program report: second quarter of 1996. ESRF-016 (2QT96). Environmental Science and Research Foundation, Idaho Falls, Idaho. 29 pp.
- Peterson, D., R. Mitchell, and D. Roush. 1997. Idaho National Engineering and Environmental offsite environmental surveillance program report: third quarter of 1996. ESRF-016 (3QT96). Environmental Science and Research Foundation, Idaho Falls, Idaho. 27 pp.
- Reynolds, T. D. and R. C. Morris, eds. 1997. Landfill capping in the semi-arid west: problems, perspectives, and solutions. ESRF-019. Environmental Science and Research Foundation, Idaho Falls, Idaho. 263 pp.
- Roush, D. 1997. Resources in Review, Atomic ghosts: poets respond to the nuclear age. *Journal of Environmental Quality* 29:45-46.
- Smith, S. D., R. K. Monson, and J. E. Anderson. 1997. Physiological ecology of North American Desert Plants. Springer-Verlag, Berlin. 286 pp.

Appendix H

1996

- Anderson, J. E., K. T. Ruppel, J. M. Glennon, K. E. Holte, and R. C. Rope. 1996. Plant communities, ethnoecology, and flora of the Idaho National Engineering Laboratory. ESRF-005. Environmental Science and Research Foundation, Idaho Falls, Idaho. 111 pp.
- Bosworth, W. R., III. 1996. Methods for monitoring bat population trends at lava-tube caves on the Idaho National Engineering Laboratory. ESRF-013. Environmental Science and Research Foundation, Idaho Falls, Idaho. 17 pp.
- Bromenshenk, J. J., R. C. Cronn, and J. J. Nugent. 1996. Monitoring fluoride with honey bees in the upper Snake River Plain of Idaho. *Journal of Environmental Quality* 25:868-877.
- Christian, T. J. 1996. Analysis of polychlorinated biphenyls in honey bees. M. S. Thesis. University of Montana, Missoula. 60 pp.
- Cieminski, K. L. and L. D. Flake. 1996. Bird communities at wastewater ponds in southeastern Idaho. Pages 187-206 *in* Proceedings of 23rd Annual Conference on Ecosystem Restoration and Creation, Tampa, Florida.
- Cooper, S. L. 1996. Geographic distribution of the Desert Night Snake (*Hypsiglena torquata*). *Herpetological Review* 27:213.
- Doering, R. W. 1996. Thermal implications of roost site selection in hibernating *Plecotus townsendii*. M. S. Thesis. Idaho State University, Pocatello. 109 pp.
- Flake, L. D. and K. L. Cieminski. 1996. Waterfowl use of wastewater ponds on the Idaho National Engineering Laboratory. Pages 207-227 *in* Proceedings of 23rd Annual Conference on Ecosystem Restoration and Creation, Tampa, Florida.
- Hansen, R. W. and L. D. Flake. 1996. Prairie biologists in the desert. *South Dakota Conservation Digest* 63(4):12-13, 15.
- Mitchell, R., D. Peterson, and D. L. Hoff. 1996. Idaho National Engineering Laboratory site environmental report for calendar year 1995. ESRF-014; DOE/ID-12082(95). Environmental Science and Research Foundation, Idaho Falls, Idaho. 191 pp.
- Mitchell, R., D. Peterson, and D. Roush. 1996. INEEL offsite environmental surveillance program report for the fourth quarter of 1995. ESRF-011 (4QT95). Environmental Science and Research Foundation, Idaho Falls, Idaho. 33 pp.
- Morris, R. C., R. C. Anderson, S. Earl, M. McCurry, and L. Pearson. 1996. A mineral and biotic survey of two caves at Craters of the Moon National Monument. ESRF-008. Environmental Science and Research Foundation, Idaho Falls, Idaho. 65 pp.
- Peterson, D., R. Mitchell, and A. Adams. 1996. Idaho National Engineering Laboratory offsite environmental surveillance program report: first quarter of 1995. ESRF-011(1QT95). Environmental Science and Research Foundation, Idaho Falls, Idaho. 25 pp.
- Peterson, D., R. Mitchell, and D. Roush. 1996. Idaho National Engineering Laboratory offsite environmental surveillance program report: second quarter of 1995. ESRF-011(2QT95). Environmental Science and Research Foundation, Idaho Falls, Idaho. 30 pp.
- Peterson, D., R. Mitchell, and D. Roush. 1996. Idaho National Engineering Laboratory offsite environmental surveillance program report: third quarter of 1995. ESRF-011 (3QT95). Environmental Science and Research Foundation, Idaho Falls, Idaho. 28 pp.
- Peterson, D., R. Mitchell, and D. Roush. 1996. Idaho National Engineering Laboratory

Appendix H

- offsite environmental surveillance program report: first quarter of 1996. ESRF-016(1QT96). Environmental Science and Research Foundation, Idaho Falls, Idaho. 25 pp.
- Rasmuson, K. E. 1996. Population and individual responses of *Bromus tectorum* to environmental stresses: a study of factors that may limit its distribution in cold-desert habitats. Ph.D. Dissertation. Idaho State University, Pocatello.
- Reynolds, T. D. and R. C. Morris, eds. 1996. Environmental Science and Research Foundation annual technical report to DOE-ID: calendar year 1995. ESRF-012. Environmental Science and Research Foundation, Idaho Falls, Idaho. 126 pp.
- Roush, D. and R. Fortner. 1996. Newspaper coverage of zebra mussels in North America: a case of "Afghanistanism"? *Electronic Green Journal* 3(1).
- Roush, D., R. G. Mitchell, and D. Peterson. 1996. In summary: Idaho National Engineering Laboratory site environmental report for calendar year 1995. ESRF-015. Environmental Science and Research Foundation, Idaho Falls, Idaho. 26 pp.
- Strohmeier, D. C. and J. M. Peek. 1996. Wapiti home range and movement patterns in a sagebrush desert. *Northwest Science* 70:79-87.

1995

- Adams, A. E., R. G. Mitchell, and D. Peterson. 1995. In summary: Idaho National Engineering Laboratory site environmental report for calendar year 1994. ESRF-010. Environmental Science and Research Foundation, Idaho Falls, Idaho. 24 pp.
- Anderson, J. E., R. S. Nowak, K. E. Rasmuson, and N. L. Toft. 1995. Gas exchange and resource-use efficiency of *Leymus cinereus* (Poaceae): diurnal and seasonal responses to naturally declining soil moisture. *American Journal of Botany* 82:699-708.
- Bromenshenk, J. J., G. C. Smith, and V. J. Watson. 1995. Assessing ecological risks in terrestrial systems with honey bees. Pages 9-30 *in* *Biomonitoring and biomarkers as indicators of environmental change*. Plenum Press, New York.
- Cieminski, K. L. and L. D. Flake. 1995. Invertebrate fauna of wastewater ponds in southeastern Idaho. *Great Basin Naturalist* 55:105-116.
- Earl, S. and R. C. Morris. 1995. A survey of 14 caves on the Idaho National Engineering Laboratory. ESRF-006. Environmental Science and Research Foundation, Idaho Falls, Idaho. 58 pp.
- Hansen, R. W. and L. D. Flake. 1995. Ecological relationships between nesting Swainson's and red-tailed hawks in southeastern Idaho. *Journal of Raptor Research* 29:166-171.
- Hansen, R. W. and L. D. Flake. 1995. Nest structure cohabitation by raptors in southeastern Idaho. *Journal of Raptor Research* 29:32-34.
- Mitchell, R., D. Peterson, and A. E. Adams. 1995. Idaho National Engineering Laboratory offsite environmental surveillance program report for the third quarter of 1994. ESRF-004(3QT94). Environmental Science and Research Foundation, Idaho Falls, Idaho. 26 pp.
- Mitchell, R. G., D. Peterson, and D. L. Hoff. 1995. Idaho National Engineering Laboratory site environmental report for calendar year 1994. ESRF-009; DOE/ID-12082(94). Environmental Science and Research Foundation, Idaho Falls, Idaho. 147 pp.
- Peterson, D., R. Mitchell, and A. Adams. 1995. INEEL offsite environmental surveillance

Appendix H

- program report: fourth quarter of 1994. ESRF-004(4QT94). Environmental Science and Research Foundation, Idaho Falls, Idaho. 28 pp.
- Reynolds, T. D., R. C. Morris, and O. D. Markham, eds. 1995. Environmental Science and Research Foundation annual technical report: 11 April-31 December, 1994. ESRF-007. Environmental Science and Research Foundation, Idaho Falls, Idaho. 145 pp.
- 1994**
- Blom, P. E., J. B. Johnson, B. Shafii, and J. Hammel. 1994. Soil water movement related to distance from three *Pogonomyrmex salinus* (Hymenoptera: formicidae) nests in southeastern Idaho. *Journal of Arid Environments* 26:241-255.
- Bosworth, W. R. 1994. Characteristics of winter activity in *Plecotus townsendii* in southeastern Idaho. M. S. Thesis. Idaho State University, Pocatello. 74 pp.
- Cobb, V. A. 1994. The ecology of pregnancy in free-ranging Great Basin rattlesnakes (*Crotalus viridis lutosus*). Ph.D. Dissertation. Idaho State University, Pocatello. 82 pp.
- Cobb, V. A. 1994. Rattling around on the Snake River Plain. *Idaho Wildlife* 14(2):10-13.
- Goff, B. F., G. C. Bent, and G. E. Hart. 1994. Influence of rainfall intensity on the interrill erodibility of two rangeland soils. *Transactions of the ASAE* 37:1445-1448.
- Hansen, R. W. 1994. Raptor use of the Idaho National Engineering Laboratory. M. S. Thesis. South Dakota State University, Brookings. 141 pp.
- Limbach, W. E., T. D. Ratzlaff, J. E. Anderson, T. D. Reynolds, and J. W. Laundré. 1994. Design and implementation of the Protective Cap/BioBarrier Experiment at the Idaho National Engineering Laboratory. Pages 359-377 in *Proceedings of 33rd Hanford Symposium on Health and Environment—In-situ Remediation: scientific basis for current and future technologies*. Battelle Pacific Northwest Laboratory, Richland, Washington.
- Merickel, F. W. and W. H. Clark. 1994. *Tetramorium caespitum* (Linnaeus) and *Liometopum luctuosum* W. M. Wheeler [Hymenoptera: formicidae]: new state records for Idaho and Oregon, with notes on their natural history. *Pan-Pacific Entomologist* 70:148-158.
- Mitchell, R. G. 1994. Idaho National Engineering Laboratory site environmental report for calendar year 1993. Foundation-002; DOE/ID-12082(93). Environmental Science and Research Foundation, Idaho Falls, Idaho. 132 pp.
- Mitchell, R. and D. Peterson. 1994. Idaho National Engineering Laboratory offsite environmental surveillance program report for the second quarter of 1994. ESRF-004(2QT94). Environmental Science and Research Foundation, Idaho Falls, Idaho. 28 pp.
- Morris, R. C. 1994. Radioecology and Ecology Publications of the Idaho National Engineering Laboratory: 1974-1994. ESRF-003. Environmental Science & Research Foundation, Idaho Falls, Idaho. 35 pp.
- Reynolds, T. D. 1994. Idaho National Environmental Research Park. Pages 19-22 in *Department of Energy National Environmental Research Parks*. DOE/ER-0615P. U.S. Department of Energy, Office of Energy Research, Washington D.C.
- Rightmire, K. G. 1994. The influence of crusting and cracking on runoff and erosion from simulated waste disposal sites at the Idaho National Engineering Laboratory. M. S.

Appendix H

Thesis. Utah State University, Logan. 96 pp.

Steadman, D. W., J. I. Mead, R. C. Bright, and C. Force. 1994. Late quaternary plants and animals from Rattlesnake Cave, Snake River Plain, Idaho. Foundation-001. Environmental Science and Research Foundation, Idaho Falls, Idaho. 34 pp.

1993

- Anderson, J. E., R. S. Nowak, T. D. Ratzlaff, and O. D. Markham. 1993. Managing soil moisture on waste burial sites in arid regions. *Journal of Environmental Quality* 22:62-69.
- Anderson, J. E. and N. L. Toft. 1993. Depletion of soil moisture by two cold-desert bunch-grasses and effects on photosynthetic performance. *Great Basin Naturalist* 53:97-106.
- Boone, J. D. and B. L. Keller. 1993. Temporal and spatial patterns of small mammal density and species composition on a radioactive waste disposal area: the role of edge habitat. *Great Basin Naturalist* 53:341-349.
- Cieminski, K. L. 1993. Wildlife use of wastewater ponds at the Idaho National Engineering Laboratory. M. S. Thesis. South Dakota State University, Brookings. 311 pp.
- do Nascimento, R. R., B. D. Jackson, E. D. Morgan, W. H. Clark, and P. E. Blom. 1993. Chemical secretions of two sympatric harvester ants, *Pogonomyrmex salinus* and *Messor lobognathus*. *Journal of Chemical Ecology* 19:1993-2005.
- Goff, B. F., G. C. Bent, and G. E. Hart. 1993. Erosion response of a disturbed sagebrush steppe hillslope. *Journal of Environmental Quality* 22:698-709.
- Knick, S. T., E. C. Hellgren, and U. S. Seal. 1993. Hematologic, biochemical, and endocrine characteristics of bobcats during a lagomorph decline in southeastern Idaho. *Canadian Journal of Zoology* 71:1448-1453.
- Laundré, J. W. 1993. Effect of small mammal burrows on water infiltration in a semi-arid environment. *Oecologia* 94:43-48.
- Laundré, J. W. and T. D. Reynolds. 1993. Effects of soil structure on burrow characteristics of five small mammal species. *Great Basin Naturalist* 53:358-366.
- Morris, R. C. 1993. The implications of lined radioactive waste ponds for waterfowl contamination. Pages 147-155 in *Proceedings of Environmental Health Physics: proceedings of the 26th mid-year topical meeting of the Health Physics Society*, Richland, Washington. Columbia Chapter of the Health Physics Society.
- Nowak, R. S., C. L. Nowak, and J. E. Anderson. 1993. Differential responses to nitrogen form and concentration for *Oryzopsis hymenoides* and *Elymus lanceolatus*. *Great Basin Naturalist* 53:222-236.
- Pearson, L. C. 1993. Lichens as bioindicators of air quality. Pages 89-95 in *USDA Forest Service General Technical Report. RM-224. United States Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado.*

1992

- Clark, W. H. and P. E. Blom. 1992. Notes on spider (Theridiidae, Salticidae) predation of the harvester ant, *Pogonomyrmex salinus* Olsen (Hymenoptera: formicidae myrmicinae) and a possible parasitoid fly (Chloropidae). *Great Basin Naturalist* 52:385-386.

Appendix H

- Clark, W. H. and P. E. Blom. 1992. Sage Thrasher, *Oreoscoptes montanus* (Townsend), predation on a mating swarm of the harvester ant, *Pogonomyrmex salinus* Olsen. *Journal of Idaho Academy of Science* 28:29-32.
- Goff, B. F., G. C. Bent, and G. E. Hart. 1992. Hydraulic roughness of earth covers at a cold-desert waste burial site. *Arid Soil Research Rehabilitation* 6:327-338.
- Strohmeier, D. C. 1992. Elk use of sagebrush desert in Southeastern Idaho. M. S. Thesis. University of Idaho, Moscow. 76 pp.

1991

- Abbott, M. L. and L. Fraley, Jr. 1991. A review: radiotracer methods to determine root distribution. *Environmental and Experimental Botany* 31:1-10.
- Abbott, M. L., L. Fraley, Jr., and T. D. Reynolds. 1991. Root profiles of selected cold desert shrubs and grasses in disturbed and undisturbed soils. *Environmental and Experimental Botany* 31:165-178.
- Anderson, J. E., R. S. Nowak, T. D. Ratzlaff, and O. D. Markham. 1991. Managing soil moisture on waste burial sites. DOE/ID-12123. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 30 pp.
- Blom, P. E., W. H. Clark, and J. B. Johnson. 1991. Colony densities of the seed harvesting ant *Pogonomyrmex salinus* (Hymenoptera: formicidae) in seven plant communities on the Idaho National Engineering Laboratory. *Journal of the Idaho Academy of Science* 27:28-36.
- Blom, P. E., J. B. Johnson, and S. K. Rope. 1991. Concentrations of ¹³⁷Cs and ⁶⁰Co in nests of the harvester ant, *Pogonomyrmex salinus*, and associated soils near nuclear reactor waste water disposal ponds. *American Midland Naturalist* 126:140-151.
- Clark, W. H. and P. E. Blom. 1991. Observations of ants (Hymenoptera: formicidae: myrmicinae, formicinae, dolichoderinae) utilizing carrion. *Southwestern Naturalist* 36:140-142.
- Cronn, R. C. 1991. Determination of cadmium toxicity and the relationship between dose and metallothionein levels in the honey bee, *Apis mellifera*. M. S. Thesis. University of Montana, Missoula. 133 pp.
- Goff, B. F. 1991. Hydrologic and erosion response of a disturbed sagebrush hillslope. Ph.D. Dissertation. Utah State University, Logan. 142 pp.
- Jackson, B. D., S. J. Keegans, E. D. Morgan, W. H. Clark, and P. E. Blom. 1991. Chemotaxonomic study of new species of *Myrmica* ant from Idaho. *Journal of Chemical Ecology* 17:335-342.
- Koehler, D. K. and S. H. Anderson. 1991. Habitat use and food selection of small mammals near a sagebrush/crested wheatgrass interface in southeastern Idaho. *Great Basin Naturalist* 51:249-255.
- Laundré, J. W. and R. J. Wilkosz. 1991. The use of cluster analysis to analyze habitat use by coyotes in an area of low vegetal heterogeneity. *Northwestern Naturalist* 72:12-20.
- Markham, O. D. and R. C. Morris. 1991. Summaries of Idaho National Engineering Laboratory Radioecology and Ecology Program Environmental Restoration and Waste Management Related Research. DOE/ID-12124. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 74 pp.
- Markham, O. D. and T. D. Reynolds. 1991. Publications of the Idaho National Engineering Laboratory Radioecology and Ecology Program: 1974-1991.

Appendix H

- DOE/ID-12125. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 32 pp.
- Mills, L. S. and F. F. Knowlton. 1991. Coyote space use in relation to prey abundance. *Canadian Journal of Zoology* 69:1516-1521.
- Peterson, K. L. and L. B. Best. 1991. Nest-site selection by sage thrasher in southeastern Idaho. *Great Basin Naturalist* 51:261-266.
- Reynolds, T. D. 1991. Movement of gravel by the Owyhee harvester ant, *Pogonomyrmex salinus* (Hymenoptera: formicidae). *Entomological News* 102:118-124.
- Sime, C. A. 1991. Sage grouse use of burned, non-burned, and seeded vegetation communities on the Idaho National Engineering Laboratory, Idaho. M. S. Thesis. Montana State University, Bozeman. 72 pp.

1990

- Blom, P. E. 1990. Potential impacts on radioactive waste disposal situations by the harvester ant, *Pogonomyrmex salinus* Olsen (Hymenoptera: formicidae). M. S. Thesis. University of Idaho, Moscow. 241 pp.
- Boone, J. D. 1990. Ecological characteristics and preferential edge use of small mammal populations inhabiting a radioactive waste disposal area. M. S. Thesis. Idaho State University, Pocatello. 101 pp.
- Knick, S. T. 1990. Ecology of bobcats relative to exploitation and a prey decline in southeastern Idaho. *Wildlife Monographs* 108:1-42.
- Laundré, J. W. 1990. Assessment of CREAMS and ERHYM-II computer models for simulating soil water movement on the Idaho National Engineering Laboratory. DOE/ID-12116. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 46 pp.
- Laundré, J. W. 1990. Calibration and sensitivity testing of CREAMS and ERHYM-II computer models for use in cold desert environments. *Arid Soil and Research Rehabilitation* 4:205-222.
- Laundré, J. W. 1990. Soil moisture patterns below mounds of harvester ants. *Journal of Range Management* 43:10-12.
- Millard, J. B., F. W. Whicker, and O. D. Markham. 1990. Radionuclide uptake and growth of barn swallows nesting by radioactive leaching ponds. *Health Physics* 58:429-439.
- Nowak, R. S., C. L. Nowak, T. DeRocher, M. A. Jones, and N. Cole. 1990. Prevalence of *Oryzopsis hymenoides* near harvester ant mounds: indirect facilitation by ants. *Oikos* 58:190-198.
- Reynolds, T. D. 1990. Effectiveness of three natural biobarriers in reducing root intrusion by four semi-arid plant species. *Health Physics* 59:849-852.
- Reynolds, T. D. 1990. Root mass and vertical root distribution of five species of semi-arid land plants. *Health Physics* 58:191-197.
- Reynolds, T. D. and J. W. Laundré. 1990. Time intervals for estimating pronghorn and coyote home ranges and daily movements. *Journal of Wildlife Management* 54:316-322.
- Rope, S. K. and L. C. Pearson. 1990. Lichens as air pollution biomonitors in a semi-arid environment in Idaho. *The Bryologist* 93:50-61.
- Sirotnak, J. M. 1990. Interspecific and intraspecific competition in *Leymus cinereus* and *Chrysothamnus nauseosus* in a cold-desert environment. M. S. Thesis. Idaho State

Appendix H

- University, Pocatello. 64 pp.
- Smith, S. D. and R. S. Nowak. 1990. Ecophysiology of plants in the intermountain lowlands. Pages 179-241 in *Ecological Studies: Plant Biology of the Basin and Range*. Heidelberg: Springer-Verlag.
- Wackenhut, M. C. 1990. Bat species overwintering in lava-tube caves in Lincoln, Gooding, Blaine, Bingham and Butte Counties, Idaho with special reference to annual return of banded *Plecotus townsendii*. M. S. Thesis. Idaho State University, Pocatello. 64 pp.

1989

- Abbott, M. L. 1989. Root profiles of six cold desert plant species determined by radioiodine uptake. M. S. Thesis. Colorado State University, Fort Collins. 98 pp.
- Anderson, J. E. and M. L. Shumar. 1989. Guidelines for revegetation of disturbed sites at the Idaho National Engineering Laboratory. DOE/ID-12114. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 36 pp.
- Clark, W. H. and P. E. Blom. 1989. A collection technique for mound-building ants (Hymenoptera: formicidae). *Entomology News* 100:127-128.
- Howe, F. P. and L. D. Flake. 1989. Mourning dove use of man-made ponds in a cold desert ecosystem in Idaho. *Great Basin Naturalist* 49:627-631.
- Howe, F. P. and L. D. Flake. 1989. Nesting ecology of mourning doves in a cold desert ecosystem. *Wilson Bulletin* 101:467-472.
- Ibrahim, S. and T. Culp. 1989. Plutonium distribution and oxidation states in a reactor leaching ponds system. *Health Physics* 57:607-614.
- Laundré, J. W. 1989. Burrows of least chipmunks in southeastern Idaho. *Northwestern Naturalist* 70:18-20.
- Laundré, J. W. 1989. Estimating soil bulk density with expanding polyurethane foam. *Soil Science* 147:223-224.
- Laundré, J. W. 1989. Horizontal and vertical diameter of burrows of five small mammal species in southeastern Idaho. *Great Basin Naturalist* 49:646-649.
- Reynolds, T. D. and L. Fraley, Jr. 1989. Root profiles of some native and exotic plant species in southeastern Idaho. *Environmental and Experimental Botany* 29:241-248.
- Seeley, R. R. and T. D. Reynolds. 1989. The effects of indomethacin-treated wheat on a wild population of montane voles. *Great Basin Naturalist* 49:556-561.
- Toft, N. L., J. E. Anderson, and R. S. Nowak. 1989. Water use efficiency and carbon isotope composition of plants in a cold desert environment. *Oecologia* 80:11-18.

1988

- Arthur, W. J. and R. J. Gates. 1988. Trace element intake via soil ingestion in pronghorns and in black-tailed jackrabbits. *Journal of Range Management* 41:162-166.
- Bent, G. C. 1988. Surface erosion and hydrology of earth covers used in shallow land burial of low-level radioactive waste. M. S. Thesis. Utah State University, Logan. 114 pp.
- Clark, W. H. and P. Blom. 1988. Observations on the relationship between ants (Hymenoptera: formicidae: myrmicinae, dorylinae) and *Araeoschizus* (Coleoptera: tenebrionidae). *Journal of the Idaho Academy of Science* 24:34-37.
- Connelly, J. W., H. W. Browsers, and R. J. Gates. 1988. Seasonal movements of sage

Appendix H

- grouse in southeastern Idaho. *Journal of Wildlife Management* 52:116-122.
- Craig, E. H., T. H. Craig, and L. R. Powers. 1988. Activity patterns and home-range use of nesting long-eared owls. *Wilson Bulletin* 100:204-213.
- Howe, F. P. and L. D. Flake. 1988. Mourning dove movements during the reproductive season in southeastern Idaho. *Journal of Wildlife Management* 52:477-480.
- Koehler, D. K. 1988. Small mammal movement patterns around a radioactive waste disposal area in southeastern Idaho. M. S. Thesis. University of Wyoming, Laramie. 95 pp.
- Markham, O. D., D. K. Halford, S. K. Rope, and G. B. Kuzo. 1988. Plutonium, Am, Cm and Sr in ducks maintained on radioactive leaching ponds in southeast Idaho. *Health Physics* 55:517-524.
- Moritz, W. E. 1988. Wildlife use of fire-disturbed areas in sagebrush steppe on the Idaho National Engineering Laboratory. M. S. Thesis. Montana State University, Bozeman. 135 pp.
- Nowak, R. S., J. E. Anderson, and N. L. Toft. 1988. Gas exchange of *Agropyron desertorum*: diurnal patterns and responses to water vapor gradient and temperature. *Oecologia* 77:289-295.
- Reynolds, T. D. 1988. Seasonal abundance and distribution of pronghorn on the Idaho National Environmental Research Park. Page 6 of 101 in *Proceedings of 12th Biennial Pronghorn Antelope Workshop*, Reno, Nevada. Nevada Department of Wildlife Special Publication.
- Reynolds, T. D. and J. W. Laundré. 1988. Vertical distribution of soil removed by four species of burrowing rodents in disturbed and undisturbed soils. *Health Physics* 54:445-450.
- Rope, S. K., W. J. Arthur, T. H. Craig, and E. H. Craig. 1988. Nutrient and trace elements in soil and desert vegetation of southern Idaho. *Environmental Monitoring and Assessment* 10:1-24.

1987

- Anderson, J. E., M. L. Shumar, N. L. Toft, and R. S. Nowak. 1987. Control of the soil water balance by sagebrush and three perennial grasses in a cold-desert environment. *Journal of Arid Soil Research and Rehabilitation* 1:229-244.
- Arthur, W. J., O. D. Markham, C. R. Groves, and B. L. Keller. 1987. Radionuclide export by deer mice at a solid radioactive waste disposal area in southeastern Idaho. *Health Physics* 52:45-53.
- Bromenshenk, J. J. 1987. Regional monitoring of pollutants with honey bees. Pages 156-170 in *Proceedings of Progress in Environmental Specimen Banking*, Springfield, Virginia. National Bureau of Standards Special Publication 740.
- Cole, N. K. 1987. The growth and water relations of *Leymus cinereus* following a prescribed burn. M. S. Thesis. Idaho State University, Pocatello. 104 pp.
- Floyd, D. A. and J. E. Anderson. 1987. A comparison of three methods for estimating plant cover. *Ecology* 75:221-228.
- Genter, D. L. 1987. Dolphins of the sky. *Idaho Wildlife* 7:18-20.
- Halford, D. K. 1987. Density, movement, and transuranic tissue inventory of small mammals at a liquid radioactive waste disposal area. Pages 147-156 in *Proceedings of Environmental Research on Actinide Elements*, Hilton Head, South Carolina. Conf-841142 (DE86008713). U.S. Department of Energy, Office of

Appendix H

- Health and Environmental Research, Washington, D.C.
- Halford, D. K. 1987. Effect of cooking on radionuclide concentrations in waterfowl tissues. *Journal of Environmental Radioactivity* 5:229-233.
- Halford, D. K. 1987. Transuranic inventory in tissues of small mammals at a liquid radioactive waste disposal area *in* Proceedings of Symposium of Environmental Research on Actinide Elements, Hilton Head, South Carolina.
- Knick, S. T. 1987. Ecology of bobcats in southeastern Idaho. Ph.D. Dissertation. University of Montana, Missoula. 145 pp.
- Knick, S. T. 1987. What do the bobcats do when the jackrabbits are gone? *Idaho Wildlife* 7:14-17.
- Koehler, D. K., T. D. Reynolds, and S. H. Anderson. 1987. Radio-transmitter implants in four species of small mammals. *Journal of Wildlife Management* 51:105-108.
- Kuzo, G. B., J. Fraley, F. W. Whicker, and O. D. Markham. 1987. Comparative behavior and distribution of transuranium nuclides in selected components of Test Reactor Leaching Ponds. Pages 319-339 *in* Proceedings of Environmental Research on Actinide Elements, Hilton Head, South Carolina. Conf-841142 (DE8600 8713). U.S. Department of Energy, Office of Health and Environmental Research, Washington, D.C.
- Laundré J. W., T. D. Reynolds, S. T. Knick, and I. J. Ball. 1987. Accuracy of daily point relocations in assessing real movements of radio-marked animals. *Journal of Wildlife Management* 51:937-940.
- MacCracken, J. G. and R. M. Hansen. 1987. Coyote feeding strategies in southeastern Idaho: optimal foraging by an opportunistic predator? *Journal of Wildlife Management* 51:278-285.
- Markham, O. D. 1987. Summaries of the Idaho National Engineering Laboratory Radioecology and Ecology Programs research projects. DOE/ID-12111. U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho. 39 pp.
- Mullican, T. R. and B. L. Keller. 1987. Burrows of the sagebrush vole (*Lemmyscus curtatus*) in southeastern Idaho. *Great Basin Naturalist* 47:276-279.
- Pearson, L. C. and S. K. Rope. 1987. Lichens of the Idaho National Engineering Laboratory. DOE/ID-12110. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 26 pp.
- Petersen, K. L. and L. B. Best. 1987. Effects of prescribed burning on nongame birds in a sagebrush community. *Wildlife Society Bulletin* 15:317-329.
- Petersen, K. L. and L. B. Best. 1987. Territory dynamics in a sage sparrow population: are shifts in site use adaptive? *Behavioral Ecology and Sociobiology* 21:351-358.
- Powers, L. R. and M. J. Wheeler. 1987. Brewer's blackbird feeding on a barn swallow. *Wilson Bulletin* 99:294-295.
- Reynolds, T. D. and O. D. Markham. 1987. Publications of the Idaho National Engineering Laboratory Radioecology and Ecology Program: 1974-1986. DOE/ID-12109. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 25 pp.
- Reynolds, T. D., R. B. Shepard, J. W. Laundré, and C. L. Winter. 1987. Calibrating resistance-type soil moisture units in a high clay content soil. *Soil Science* 144: 237-241.
- Reynolds, T. D. and W. Wakkinen. 1987. Characteristics of the burrows of four species

Appendix H

- of rodents in undisturbed southeastern Idaho soils. *American Midland Naturalist* 118:245-250.
- Rope, S. K., R. S. Jornitz, and D. T. Schre. 1987. Availability of trace elements in solid waste from fluidized bed combustion of coal. DOE/ID-12112. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 22 pp.
- Shumar, M. L. and J. E. Anderson. 1987. Transplanting wildings in small revegetation projects. *Arid Soil Research and Rehabilitation* 1:253-256.
- Stafford, M. P. 1987. Insect interactions with four species of sagebrush (*Artemisia*) in a southeastern Idaho high desert rangeland. Ph.D. Dissertation. University of Idaho, Moscow. 81 pp.
- Youtie, B. A., M. P. Stafford, and J. B. Johnson. 1987. Herbivorous and parasitic insect guilds associated with Great Basin wildrye (*Elymus cinereus*) in southern Idaho. *Great Basin Naturalist* 47:644-651.

1986

- Anderson, J. E. 1986. Development and structure of sagebrush steppe plant communities. Pages 10-12 *in* Proceedings of Rangelands: a resource under siege. Second International Rangeland Congress, Adelaide, Australia. Canberra: Australian Academy of Science.
- Anderson, J. E. and G. M. Marlette. 1986. Probabilities of seedling recruitment and the stability of crested wheatgrass stands. Pages 97-105 *in* Proceedings of crested wheatgrass: its values, problems, and myths. Utah State University, Logan.
- Anderson, J. E. and M. L. Shumar. 1986. Impacts of black-tailed jackrabbits at peak population densities on sagebrush-steppe vegetation. *Journal of Range Management* 39:152-156.
- Arthur, W. J. and D. H. Janke. 1986. Radionuclide concentrations in tissues of wildlife occurring at a solid radioactive waste disposal area. *Northwest Science* 60:154-159.
- Arthur, W. J., O. D. Markham, C. R. Groves, B. L. Keller, and D. K. Halford. 1986. Radiation dose to small mammals inhabiting a solid radioactive waste disposal area. *Journal of Applied Ecology* 23:13-26.
- Browsers, H. W. and J. W. Connelly. 1986. Capturing sage grouse with mist nets. *Prairie Naturalist* 18:185-188.
- Craig, E. H., T. H. Craig, and L. R. Powers. 1986. Habitat use by wintering golden eagles and American rough-legged hawks in southeastern Idaho. *Journal of Raptor Research* 20:69-71.
- Culp, T. 1986. Plutonium distribution and physico-chemical characteristics in test reactor leaching ponds. M. S. Thesis. Colorado State University, Fort Collins. 57 pp.
- Davis, O. K., J. C. Sheppard, and S. Robertson. 1986. Contrasting climatic histories for the Snake River Plain, Idaho, resulting from multiple thermal maxima. *Quaternary Research* 26:321-339.
- Genter, D. L. 1986. Wintering bats of the upper Snake River Plain: occurrence in lava-tube caves. *Great Basin Naturalist* 46:241-244.
- Groves, C. R., W. J. Arthur, B. L. Keller, and O. D. Markham. 1986. Effects of surgically implanting thermoluminescent dosimeters in small mammals. *Health Physics* 51:142-145.
- Groves, C. R. and B. L. Keller. 1986. Movements by small mammals on a radioactive

Appendix H

- waste disposal area in southeastern Idaho. *Great Basin Naturalist* 46:404-410.
- Guyer, C. and A. D. Linder. 1986. Thermal ecology and activity patterns of the short-horned lizard (*Phrynosoma douglassi*) and the sagebrush lizard (*Sceloporus graciosus*) in southeastern Idaho. *Great Basin Naturalist* 45:607-614.
- Howe, F. P. 1986. An ecological study of mourning doves in a cold desert ecosystem on the Idaho National Engineering Laboratory. M. S. Thesis. South Dakota State University, Brookings. 66 pp.
- Johnson, J. B. and M. P. Stafford. 1986. Adult Noctuidae feeding on aphid honeydew, and a discussion of honeydew feeding by adult Lepidoptera. *Journal of the Lepidoptera Society* 39:321-327.
- Knick, S. T. and T. N. Bailey. 1986. Long distance movements by two bobcats from southeastern Idaho. *American Midland Naturalist* 116:222-223.
- MacCracken, J. G. and R. M. Hansen. 1986. Energy and protein content of coyote prey in southeastern Idaho. *Great Basin Naturalist* 46:274-276.
- Markham, O. D. and C. H. Trost. 1986. Summer foods of mourning doves in southeastern Idaho. *Murrelet* 67:60-62.
- Marlette, G. M. and J. E. Anderson. 1986. Seed banks and propagule dispersal in crested wheatgrass stands. *Journal of Applied Ecology* 23:161-175.
- Millard, G. E. 1986. The deposition and retention of radioactive aerosols on desert vegetation. Ph.D. Dissertation. Colorado State University, Fort Collins. 173 pp.
- Millard, J. B. 1986. Seasonal distribution and uptake of gamma emitting radionuclides of the Test Reactor Area leaching ponds. Ph.D. Dissertation. Colorado State University, Fort Collins. 191 pp.
- Mullican, T. R. 1986. Additional records of *Sorex merriami* from Idaho. *Murrelet* 67:19-20.
- Mullican, T. R. and B. L. Keller. 1986. Ecology of the sagebrush vole (*Lemmyscus curtatus*) in southeastern Idaho. *Canadian Journal of Zoology* 64:1218-1223.
- Petersen, K. L. 1986. Avian ecological studies in a sagebrush community: bird responses to fire and territory dynamics in a sparrow population. Ph.D. Dissertation. Iowa State University, Ames. 97 pp.
- Petersen, K. L. and L. B. Best. 1986. Diets of nestling sage sparrows and Brewer's sparrows in an Idaho sagebrush community. *Journal of Field Ornithology* 37:283-294.
- Petersen, K. L., L. B. Best, and B. M. Winter. 1986. Growth of nestling sage sparrows and Brewer's sparrows. *Wilson Bulletin* 98:535-546.
- Reynolds, T. D., J. W. Connelly, D. K. Halford, and W. J. Arthur. 1986. Vertebrate fauna of the Idaho National Environmental Research Park. *Great Basin Naturalist* 46:513-527.
- Shumar, M. L. and J. E. Anderson. 1986. Gradient analysis of vegetation dominated by two subspecies of big sagebrush. *Journal of Range Management* 39:156-160.
- Shumar, M. L. and J. E. Anderson. 1986. Water relations of two subspecies of big sagebrush on sand dunes in southeastern Idaho. *Northwest Science* 60:179-185.
- Stafford, M. P., W. F. Barr, and J. B. Johnson. 1986. Coleoptera of the Idaho National Engineering Laboratory Site: an annotated checklist. *Great Basin Naturalist* 46:287-293.
- Stafford, M. P. and J. B. Johnson. 1986. Phytophagous insects of green rabbitbrush in

Appendix H

- southeastern Idaho. Pages 211-214 *in* USDA General Technical Report, INT-200. Intermountain Forest and Range Experiment Station, Ogden, Utah.
- Watson, J. W. 1986. Range use by wintering American rough-legged hawks in southeastern Idaho. *Condor* 88:256-258.
- Watson, J. W. 1986. Temporal fluctuations of rough-legged hawks during carrion abundance. *Journal of Raptor Research* 20:42-43.
- Youtie, B. A. 1986. The insect fauna associated with Great Basin wild rye in southern Idaho. M. S. Thesis. University of Idaho, Moscow. 83 pp.

1985

- Best, L. B. and K. L. Peterson. 1985. Seasonal changes in detectability of sage and Brewer's sparrows. *Condor* 87:556-558.
- Browsers, H. W. and L. D. Flake. 1985. Breakup and sibling dispersal of two sage grouse broods. *Prairie Naturalist* 17:248-249.
- Craig, T. H. 1985. A day in the life of a raptor biologist. *Idaho Wildlife* 5:11-14.
- Craig, T. H., E. H. Craig, and L. R. Powers. 1985. Food habits of long-eared owls (*Asio otus*) at a communal roost site during the nesting season. *Auk* 102:193-195.
- Gates, R. J. 1985. Observations on the formation of a sage grouse lek. *Wilson Bulletin* 97:219-221.
- Gleason, R. S. and D. R. Johnson. 1985. Factors influencing nesting success of burrowing owls in southeastern Idaho. *Great Basin Naturalist* 45:81-84.
- Guyer, C. and A. D. Linder. 1985. Growth and population structure of the short-horned lizard (*Phrynosoma douglassi*) and the sagebrush lizard (*Sceloporus graciosus*) in southeastern Idaho. *Northwest Science* 59:294-303.
- Janke, D. H. and J. W. Arthur. 1985. Radionuclide transport by cottontail rabbits at a radioactive waste disposal area. *Northwest Science* 59:221-229.
- Koehler, D. K., T. D. Reynolds, and S. H. Anderson. 1985. Use of interperitoneal transmitter implants to monitor small mammal movements. *Journal of Colorado-Wyoming Academy of Science* 17:38.
- Lennstrom, H. A. 1985. Holocene vegetation history of the eastern Snake River Plain: an analysis of seventeen woodrat (*Neotoma*) middens. M. S. Thesis. University of Minnesota, Minneapolis. 167 pp.
- Markham, O. D. 1985. Summaries of Idaho National Engineering Laboratory Radioecology and Ecology Program's waste management related studies. DOE/ID 12103. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 28 pp.
- Markham, O. D. and D. K. Halford. 1985. Decreased from nuclear fuel reprocessing and concentrations in wildlife. *Northwest Science* 59:180-184.
- Markham, O. D. and D. K. Halford. 1985. Effects of decreased effluents from nuclear fuel reprocessing on ¹³⁷Cs Concentrations in Wildlife. *Northwest Science* 59:180-184.
- Markham, O. D., T. D. Reynolds, and S. K. Rope. 1985. Descriptions of the Idaho National Environmental Research Park. DOE/ER-0246. Pages 13-20 *in* Department of Energy, National Environmental Research Park, Office of Health and Environmental Research, Washington, D.C.
- McGiff, T. J. 1985. Determination of I-129 and I-127 in vegetation at the Idaho National Engineering Laboratory. M. S. Thesis. Colorado State University, Fort Collins. 93 pp.

Appendix H

- Mullican, T. R. 1985. Ecology of the sagebrush vole (*Lemmiscus curtatus*) in southeastern Idaho. M. S. Thesis. Idaho State University, Pocatello. 61 pp.
- Parmenter, R. A. 1985. Food and energy intake of coyotes determined from turnover of tritiated water and sodium-22. M. S. Thesis. Colorado State University, Fort Collins. 55 pp.
- Petersen, K. L. and L. B. Best. 1985. Brewer's sparrow nest-site characteristics in a sagebrush community. *Journal of Field Ornithology* 56:23-27.
- Peterson, K. L. and L. B. Best. 1985. Nest-site selection by sage sparrows. *Condor* 87:217-221.
- Watson, J. W. 1985. Trapping, marking and radio-monitoring American rough-legged hawks. *North American Bird Bander* 10:9-10.
- Winter, B. M. and L. B. Best. 1985. Effect of prescribed burning on placement of sage sparrow nests. *Condor* 87:294-295.

1984

- Arthur, W. J. , J. W. Connelly, D. K. Halford, and T. D. Reynolds. 1984. Vertebrates of the Idaho National Engineering Laboratory. DOE/ID-12099. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 40 pp.
- Arthur, W. J. and O. D. Markham. 1984. Polonium-210 concentrations in soil, vegetation and small mammals in southeastern Idaho. *Health Physics* 46:793-799.
- Cholewa, A. F. and D. M. Henderson. 1984. A survey and assessment of the rare vascular plants of the Idaho National Engineering Laboratory Site. *Great Basin Naturalist* 44:140-144.
- Cholewa, A. F. and D. M. Henderson. 1984. A survey and assessment of the rare vascular plants of the Idaho National Engineering Laboratory Site. IDO-12100. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 45 pp.
- Craig, T. H. and E. H. Craig. 1984. A large concentration of roosting eagles in southeastern Idaho. *Auk* 101:610-613.
- Craig, T. H., E. H. Craig, and L. R. Powers. 1984. Recent changes in eagle and buteo abundance in southeastern Idaho. *Murrelet* 65:91-93.
- Davis, O. K. 1984. Multiple thermal maxima during the holocene. *Science* 225:617-619.
- French, N. R. and J. E. Mitchell. 1984. Long-term vegetation changes in permanent quadrats at the Idaho National Engineering Laboratory Site. University of Idaho Forest, Wildlife, and Range Experimental Station Bulletin No. 36. 42 pp.
- Groves, C. R. and B. L. Keller. 1984. Hip glands in a natural population of montane voles (*Microtus montanus*). *Great Basin Naturalist* 44:468-470.
- Halford, D. K. and O. D. Markham. 1984. Iodine-129 concentrations in muscle from waterfowl using a liquid radioactive waste pond. *Health Physics* 46:1259-1263.
- Johnson, R. D. and J. E. Anderson. 1984. Diets of black-tailed jackrabbits in relation to population density and vegetation. *Journal of Range Management* 37:79-83.
- Laundré, J. W. and B. L. Keller. 1984. Home range of coyotes—a critical review. *Journal of Wildlife Management* 48:127-139.
- MacCracken, J. G. and R. M. Hansen. 1984. Seasonal foods of blacktail jackrabbits and Nuttall cottontails in southeastern Idaho. *Journal of Range Management* 37:256-259.
- Reynolds, T. D. 1984. Daily summer movements, activity patterns, and home range of pronghorn. *Northwest Science* 58:300-311.

Appendix H

- Watson, J. W. 1984. Rough-legged hawk winter ecology in southeastern Idaho. M. S. Thesis. Montana State University, Bozeman. 101 pp.
- White, J. A., H. G. McDonald, E. Anderson, and J. M. Soiset. 1984. Lava blisters as carnivore traps. *Carnegie Special Publication* 8:241-256.
- Winter, B. M. 1984. Effects of prescribed burning on avian foraging ecology and arthropod abundance in sagebrush-grassland. M. S. Thesis. Iowa State University, Ames. 82 pp.

1983

- Arthur, W. J. and O. D. Markham. 1983. Small mammal soil burrowing as a radionuclide transport vector at a radioactive waste disposal area in southeastern Idaho. *Journal of Environmental Quality* 12:117-122.
- Browsers, H. W. 1983. Dispersal and harvest of sage grouse utilizing the Test Reactor Area of the Idaho National Engineering Laboratory. M. S. Thesis. South Dakota State University, Brookings. 36 pp.
- Cholewa, A. F. and D. Henderson. 1983. Noteworthy collections—Idaho: *lesquerilla kingii* S. Wats. var. *cobrenses* Roll. and Shaw, *Astragalus kentrophyta* Gray var. *jessiae* (Peck) Barneby, *Gilia polycladon* Torrey. *Madrono* 30:63-64.
- Connelly, J. W. 1983. Whatta you do with a grouse in yer face? *Idaho Wildlife* 4:14-16.
- Connelly, J. W. and O. D. Markham. 1983. Movements and radionuclide concentrations of sage grouse in southeastern Idaho. *Journal of Wildlife Management* 47:169-177.
- Connelly, J. W., R. J. Gates, and H. W. Browsers. 1983. Seasonal movements of sage grouse in southeastern Idaho. *Transactions of the Western States Sage Grouse Workshop* 13:9.
- Filipovich, M. A. 1983. Small mammal density, movement, and food habits on the SL-1 radioactive-waste disposal area, Idaho National Engineering Laboratory. M. S. Thesis. Idaho State University, Pocatello. 60 pp.
- Gates, R. J. 1983. A preliminary interpretation of the effects of fire on sage grouse in an arid sagebrush-grassland. *Transactions of the Western States Sage Grouse Workshop* 13:11.
- Gates, R. J. 1983. Sage grouse, lagomorph and pronghorn use of a sagebrush-grassland burn site on the Idaho National Engineering Laboratory. M. S. Thesis. Montana State University, Bozeman. 135 pp.
- Goodrich, S., A. Cholewa, and D. Henderson. 1983. Noteworthy collections—Idaho: *Astragalus gilviflorus* Sheld. *Madrono* 30:63.
- Groves, C. R. and B. L. Keller. 1983. Ecological characteristics of small mammals on a radioactive waste disposal area in southeastern Idaho. *American Midland Naturalist* 109:253-265.
- Halford, D. K., O. D. Markham, and G. C. White. 1983. Biological elimination of radioisotopes by mallards contaminated at a liquid radioactive waste disposal area. *Health Physics* 45:745-756.
- Harris, C. E. 1983. Differential behavior of coyotes with regard to home range limits. Ph.D. Dissertation. Utah State University, Logan. 120 pp.
- Johnson, D. W., D. A. Cannamela, and K. W. Gasser. 1983. Food habits of the shorthead sculpin (*Cottus confusus*) in the Big Lost River, Idaho. *Northwest Science* 57:229-239.
- Johnson, W. C. and B. L. Keller. 1983. An examination of snap-trapping techniques for

Appendix H

- estimating rodent density in high desert. Northwest Science 57:194-204.
- Johnson, W. C. and B. L. Keller. 1983. Examination of the area of effect of snap-trap transects in Idaho desert. Canadian Journal of Zoology 61:403-410.
- Laundré, J. W. and B. L. Keller. 1983. Trappability of coyotes relative to home range boundaries. Canadian Journal of Zoology 61:1932-1934.
- Markham, O. D., ed. 1983. Idaho National Engineering Laboratory Radioecology and Ecology Program 1983 Progress Report. DOE/ID-12098. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 434 pp.
- Markham, O. D., T. E. Hakonson, F. W. Whicker, and J. S. Morton. 1983. Iodine-129 in mule deer thyroids from Rocky Mountain States. Health Physics 45:31-38.
- Millard, G. C., L. Fraley, Jr., and O. D. Markham. 1983. Deposition and retention of ¹⁴¹Ce and ¹³⁴Cs aerosols on cool desert vegetation. Health Physics 44:349-358.
- Reynolds, T. D. 1983. Pronghorn responses to hunting coyotes. Great Basin Naturalist 43:88-92.
- Reynolds, T. D. and D. P. Shorey. 1983. Unusual behavior of the horned lark. Western Birds 14:209-210.
- Shumar, M. L. 1983. Factors affecting the distribution of two subspecies of big sagebrush. M. S. Thesis. Idaho State University, Pocatello. 136 pp.
- Stafford, M. P. 1983. Surface-dwelling Coleoptera inhabiting sagebrush communities in southeastern Idaho. M. S. Thesis. University of Idaho, Moscow. 43 pp.
- Veith, R. D. 1983. Dispersal, relative density, and speed of carrion location of the burying beetle, *Nicrophorus hecate* Bland (Coleoptera: silphidae), in southeastern Idaho. M. S. Thesis. Idaho State University, Pocatello. 42 pp.

1982

- Arthur, W. J. 1982. Radionuclide concentrations in vegetation at a solid radioactive waste disposal area in southeastern Idaho. Journal of Environmental Quality 11:394-399.
- Arthur, W. J. and O. D. Markham. 1982. Ecological vectors of radionuclide transport at a solid radioactive waste disposal facility in southeastern Idaho. Pages 574-580 in Proceedings of International Conference on Radioactive Waste Management, Winnipeg, Manitoba, Canadian Nuclear Society, Toronto, Ontario.
- Arthur, W. J. and O. D. Markham. 1982. Radionuclide export and elimination by coyotes at two radioactive waste disposal areas in southeastern Idaho. Health Physics 43:493-500.
- Best, L. B. and K. L. Petersen. 1982. Effects of stage of the breeding cycle on sage sparrow detectability. Auk 99:788-791.
- Bright, R. C. and O. K. Davis. 1982. Quaternary paleoecology of the Idaho National Engineering Laboratory, Snake River Plain, Idaho. American Midland Naturalist 108:21-33.
- Connelly, J. W. 1982. An ecological study of sage grouse in southeastern Idaho. Ph.D. Dissertation. Washington State University, Pullman. 84 pp.
- Floyd, D. A. 1982. A comparison of three methods used for estimating vegetal cover on a controlled burn site in southeastern Idaho. M. S. Thesis. Idaho State University, Pocatello. 178 pp.
- Floyd, D. A. and J. E. Anderson. 1982. A new point interception frame for estimating cover of vegetation. Vegetation 50:185-186.
- Fraley, L., Jr., G. C. Bowman, and O. D. Markham. 1982. Iodine-129 in rabbit thyroids

Appendix H

- near a nuclear fuel reprocessing plant in Idaho. *Health Physics* 43:251-258.
- Halford, D. K., W. J. Arthur, and O. D. Markham. 1982. Biotic transport of radioactive materials at the INEL site. *Transactions of the American Nuclear Society* 41:63.
- Halford, D. K., O. D. Markham, and R. L. Dickson. 1982. Radiation doses to waterfowl using a liquid radioactive waste disposal area. *Journal of Wildlife Management* 46:905-914.
- Johnson, M. K. 1982. Response of small mammals to livestock grazing in southcentral Idaho. *Journal of Range Management* 35:51-53.
- Johnson, R. D. 1982. Relationships of black-tailed jackrabbit diets to population density and vegetal components of habitat. M. S. Thesis. Idaho State University, Pocatello. 86 pp.
- Keller, B. L., C. R. Groves, E. J. Pitcher, and M. J. Smolen. 1982. A method to trap rodents in snow, sleet, or rain. *Canadian Journal of Zoology* 60:1104-1106.
- MacCracken, J. G. and R. M. Hansen. 1982. Herbaceous vegetation of habitat used by black-tailed jackrabbits and Nuttall cottontails in southeastern Idaho. *American Midland Naturalist* 107:180-184.
- MacCracken, J. G. and R. M. Hansen. 1982. Seasonal foods of coyotes in southeastern Idaho: a multivariate analysis. *Great Basin Naturalist* 42:45-49.
- Markham, O. D., ed. 1982. Idaho National Engineering Laboratory, Hanford Site, and Los Alamos National Laboratory Symposium on Radioecology and Ecology. Grand Teton National Park, National Technical Information Service, Springfield, Virginia.
- Markham, O. D. and D. K. Halford. 1982. Radionuclides in mourning doves near a nuclear facility complex in southeastern Idaho. *Wilson Bulletin* 94:185-197.
- Markham, O. D., D. K. Halford, R. E. Autenrieth, and R. L. Dickson. 1982. Radionuclides in pronghorn resulting from nuclear fuel reprocessing and worldwide fallout. *Journal of Wildlife Management* 46:30-42.
- Marlette, G. M. 1982. Stability and succession in crested wheatgrass seedings on the Idaho National Engineering Laboratory Site. M. S. Thesis. Idaho State University, Pocatello. 100 pp.
- Petersen, K. L. 1982. Breeding ecology of passerine birds in a sagebrush-dominated community. M. S. Thesis. Iowa State University, Ames. 66 pp.
- Shumar, M. L., J. E. Anderson, and T. D. Reynolds. 1982. Identification of subspecies of big sagebrush by ultraviolet spectrophotometry. *Journal of Range Management* 35:60-62.
- Stafford, M. P. 1982. A window pane trap. *Idaho Entomology Group News-letter* 9:11-12.
- U.S. Department of Energy, ed. 1982. Idaho National Engineering Laboratory, Hanford Site, and Los Alamos National Laboratory Symposium on Radioecology and Ecology, Grand Teton National Park, National Technical Information Service, Springfield, Virginia. 63 pp.
- Woodruff, R. A. and B. L. Keller. 1982. Dispersal, daily activity, and home range of coyotes in southeastern Idaho. *Northwest Science* 56:199-207.

1981

- Anderson, J. E. and K. E. Holte. 1981. Vegetation development over 25 years without grazing on sagebrush-dominated rangeland in southeastern Idaho. *Journal of*

Appendix H

- Range Management 34:25-29.
- Autenrieth, R. E., G. L. Copeland, and T. D. Reynolds. 1981. Capturing pronghorn antelope using a helicopter and etorphine hydrochloride. *Wildlife Society Bulletin* 9:314-319.
- Browsers, H., Jr. 1981. Dispersal of sage grouse from the Test Reactor Area of the Idaho National Engineering Laboratory. *Transactions of the Western States Sage Grouse Workshop* 12:11-12.
- Connelly, J. W. 1981. Winter flocking behavior and habitat use by sage grouse in southeastern Idaho. *Transactions of the Western States Sage Grouse Workshop* 12:8-9.
- Connelly, J. W., W. J. Arthur, and O. D. Markham. 1981. Sage grouse leks on recently disturbed sites. *Journal of Range Management* 34:153-154.
- Connelly, J. W. and R. J. Gates. 1981. First record of a black-legged kittiwake in Idaho. *Condor* 83:272-273.
- Davis, O. K. 1981. Vegetation migration in southern Idaho during the late-Quaternary and Holocene. Ph.D. Dissertation. University of Minnesota, Minneapolis. 258 pp.
- Evenson, L. M. 1981. Systemic effects of radiation exposure on rodents inhabiting liquid and solid waste disposal area. M. S. Thesis. University of Idaho, Moscow. 91 pp.
- Fuller, R. K. 1981. Habitat utilization, invertebrate consumption, and movement by salmonid fishes under fluctuating flow conditions in the Big Lost River, Idaho. M. S. Thesis. Idaho State University, Pocatello. 76 pp.
- Gasser, K. W., D. A. Cannamella, and D. W. Johnson. 1981. Contributions to the life history of the shorthead sculpin, *Cottus confusus*, in the Big Lost River, Idaho: age, growth, and fecundity. *Northwest Science* 55:174-181.
- Gates, R. J. 1981. Summer use by sage grouse of irrigated agriculture in southeastern Idaho. *Transactions of the Western States Sage Grouse Workshop* 12:7-8.
- Griffith, J. S. 1981. Estimation of the length of stream-dwelling trout by underwater observation. *Progress in Fish Culture*.
- Griffith, J. S. 1981. Water bodies should be managed to maintain a balanced and indigenous community. Pages 47-53 in *Proceedings of Fifth National Workshop on Entrainment and Impingement*, San Francisco, California, A parks, Maryland: E. A. Communications.
- Groves, C. R. 1981. The ecology of small mammals on the Subsurface Disposal Area, Idaho National Engineering Laboratory Site. M. S. Thesis. Idaho State University, Pocatello. 87 pp.
- Groves, C. R. and J. E. Anderson. 1981. Allelopathic effects of *Artemisia tridentata* leaves on germination and growth of two grass species. *American Midland Naturalist* 106:73-79.
- Halford, D. K. 1981. Repopulation and food habits of *Peromyscus maniculatus* on a burned sagebrush desert in southeastern Idaho. *Northwest Science* 55:44-49.
- Halford, D. K., J. B. Millard, and O. D. Markham. 1981. Radionuclide concentrations in waterfowl using a liquid radioactive waste disposal area and the potential radiation dose to man. *Health Physics* 40:173-181.
- Johnson, M. K. 1981. Estimating coyote diet: a validation. *American Midland Naturalist* 106:399-400.
- Laundré, J. W. 1981. Temporal variation in coyote vocalization rates. *Journal of Wildlife*

Appendix H

Management 45:767-769.

- Laundré, J. W. and B. L. Keller. 1981. Home-range use by coyotes in Idaho. *Animal Behavior* 29:449-461.
- Reynolds, T. D. 1981. Nesting of the sage thrasher, sage sparrow, and Brewer's sparrow in southeastern Idaho. *Condor* 83:61-64.
- Reynolds, T. D. and C. H. Trost. 1981. Grazing, crested wheatgrass, and bird populations in southeastern Idaho. *Northwest Science* 55:225-234.
- Wilde, D. B. 1981. Pygmy rabbit reproduction: possible modification by drought conditions. Pages 559-571 *in* Proceedings of World Lagomorph Conference, University of Guelph, Ontario, Canada.

1980

- Autenrieth, R. E., G. L. Copeland, J. W. Connelly, and T. D. Reynolds. 1980. Job Progress Report, Antelope-Sage Grouse Ecology. Project W-160-R-7. Idaho Department of Fish and Game, Boise. 45 pp.
- Connelly, J. W. 1980. Ecology of sage grouse on the Idaho National Engineering Laboratory site. Pages 29-45 *in* Job Progress Report, Antelope-Sage Grouse Ecology. Federal Aid Project W-160-R-7. Idaho Department of Fish and Game, Boise.
- Davison, R. P. 1980. The effect of exploitation on some parameters of coyote populations. Ph.D. Dissertation. Utah State University, Logan. 139 pp.
- Fazio, J. R. 1980. The conceptual design of interpretive exhibits for the Idaho National Environmental Research Park. No. 192. University of Idaho Forest, Wildlife and Range Experiment Station, Moscow. 63 pp.
- Hoskinson, R. L. and J. R. Tester. 1980. Migration behavior of pronghorn antelope in southeastern Idaho. *Journal of Range Management* 44:132-144.
- MacCracken, J. G. 1980. Feeding ecology of coyotes on the upper Snake River Plain, Idaho. M. S. Thesis. Colorado State University, Fort Collins. 85 pp.
- Markham, O. D., D. K. Halford, and R. E. Autenrieth. 1980. Strontium-90 concentrations in pronghorn antelope bones near a nuclear fuel reprocessing plant. *Health Physics* 38:811-816.
- Markham, O. D., D. K. Halford, D. E. Bihl, and R. E. Autenrieth. 1980. Iodine-131 concentrations in air, milk, and antelope thyroids in southeastern Idaho. *Health Physics* 38:321-326.
- Morton, J. S., D. K. Halford, and D. Parker. 1980. A confinement device for the determination of radionuclide concentrations in live ducks. *Health Physics* 38:234-236.
- Reynolds, T. D. 1980. The effects of some different land management practices on small mammal populations. *Journal of Mammalogy* 61:558-561.
- Reynolds, T. D. 1980. Save some sage. *Idaho Wildlife* 2:10-13.
- Reynolds, T. D. 1980. Seasonal ranges and migration of antelope in southeastern Idaho. Pages 9 - 13 *in* Job Progress Report, Antelope-Sage Grouse Ecology. Federal Aid Project W-160-R-7. Idaho Department of Fish and Game, Boise.
- Reynolds, T. D. and R. E. Autenrieth. 1980. Dexamethasone and its effect on the natality of preparturiant pronghorn antelope does. *Journal of the American Veterinary Medical Association* 177:943-945.
- Reynolds, T. D. and C. H. Trost. 1980. The response of native vertebrate populations to

Appendix H

- crested wheatgrass planting and grazing by sheep. *Journal of Range Management* 33:122-125.
- Stauber, E. H., R. E. Autenrieth, and O. D. Markham. 1980. A seroepidemiologic survey of three southeastern Idaho pronghorn populations, 1975-1977. *Journal of Wildlife Diseases* 16:109-115.
- Wilkosz, R. J. 1980. Coyote habitat preferences on the Idaho National Engineering Laboratory Site in southeastern Idaho. M. S. Thesis. Idaho State University, Pocatello. 111 pp.

1979

- Connelly, J. W. 1979. Ecology of sage grouse on the Idaho National Engineering Laboratory site. Pages 43-49 *in* Antelope-Sage Grouse Ecology, Idaho Department of Fish and Game. Job Progress Report W-160-R-6. Idaho Department of Fish and Game, Boise.
- Connelly, J. W. 1979. Preliminary report on sage grouse studies on the Idaho National Engineering Laboratory. Transactions of the Western States Sage Grouse Workshop 11:11-12.
- Craig, T. H. 1979. Raptors of the Idaho National Engineering Laboratory Site. IDO-12089. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 27 pp.
- Craig, T. H., D. K. Halford, and O. D. Markham. 1979. Radionuclide concentrations in nestling raptors near nuclear facilities. *Wilson Bulletin* 91:72-77.
- Craig, T. H. and C. H. Trost. 1979. The biology and nesting density of breeding American kestrels and long-eared owls on the Big Lost River, southeastern Idaho. *Wilson Bulletin* 91:50-61.
- Fisher, J. S. 1979. Reproduction in the pygmy rabbit in southeastern Idaho. M. S. Thesis. Idaho State University, Pocatello. 33 pp.
- Gleason, R. and T. H. Craig. 1979. Food habits of burrowing owls in southeastern Idaho. *Great Basin Naturalist* 39:274-276.
- Johnson, M. K. 1979. Foods of primary consumers on cold desert shrub-steppe of southcentral Idaho. *Journal of Range Management* 32:365-368.
- Johnson, M. K. and R. M. Hansen. 1979. Coyote food habits on the Idaho National Engineering Laboratory. *Journal of Wildlife Management* 43:951-956.
- Johnson, M. K. and R. M. Hansen. 1979. Estimating coyote food intake from undigested residues in scats. *American Midland Naturalist* 102:363-367.
- Johnson, M. K. and R. M. Hansen. 1979. Food habits of cottontails and woodrats in southcentral Idaho. *Journal of Mammalogy* 60:213-215.
- Laundré, J. W. 1979. A behavioral study of home range utilization by coyotes on the Idaho National Engineering Laboratory site in southeastern Idaho. Ph.D. Dissertation. Idaho State University, Pocatello. 70 pp.
- Markham, O. D. and W. J. Arthur. 1979. Desert Island. *Idaho Wildlife* 1:14-17.
- Markham, O. D. and W. J. Arthur, eds. 1979. Proceedings of the Symposium on the Idaho National Engineering Laboratory Ecology Programs, Grand Teton National Park, U. S. Department of Energy. Idaho Operations Office. 72 pp.
- Markham, O. D., R. E. Autenrieth, and R. L. Dickson. 1979. Plutonium in pronghorn antelope lungs near a nuclear fuel reprocessing plant. *Health Physics* 37:398-400.
- Reynolds, T. D. 1979. Impact of loggerhead shrikes on nesting birds in a sagebrush environment. *Auk* 96:798-800.

Appendix H

- Reynolds, T. D. 1979. Response of the reptile populations to different land management practices on the Idaho National Engineering Laboratory Site. *Great Basin Naturalist* 39:255-262.
- Reynolds, T. D. and C. H. Trost. 1979. The effect of crested wheatgrass plantings on wildlife on the Idaho National Engineering Laboratory Site. Pages 665-666 *in* The Mitigation Symposium: a national workshop on mitigating losses of fish and wildlife habitats. General Technical Report RM-65. Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado.
- 1978**
- Craig, T. H. 1978. A car survey for raptors in southeastern Idaho. *Journal of Raptor Research* 12:40-45.
- Gleason, R. S. 1978. Aspects of the breeding biology of burrowing owls in southeastern Idaho. M. S. Thesis. University of Idaho, Moscow. 47 pp.
- Guyer, C. 1978. Home range and homing ability in *Sceloporus graciosus* and *Phrynosoma douglassi*. M. S. Thesis. Idaho State University, Pocatello. 130 pp.
- Halford, D. K. and O. D. Markham. 1978. Radiation dosimetry of small mammals inhabiting a liquid radioactive waste disposal area. *Ecology* 59:1047-1054.
- Halford, D. K. and J. B. Millard. 1978. Vertebrate fauna of a radioactive leaching pond complex in southeastern Idaho. *Great Basin Naturalist* 38:64-70.
- Johnson, M. K. 1978. Food habits of coyotes in southcentral Idaho. Ph.D. Dissertation. Colorado State University, Fort Collins. 75 pp.
- Johnson, M. K. 1978. What do coyotes eat? *Idaho Wildlife* 1:25-26.
- Johnson, M. K. and R. M. Hansen. 1978. Estimating dry weight per occurrence for taxa in coyote scat. *Journal of Wildlife Management* 42:913-915.
- Johnson, M. K. and J. G. MacCracken. 1978. Similarity between pronghorn and mule deer fecal pellets. *Great Basin Naturalist* 38:222-224.
- Laundré, J. W., R. Davison, M. K. Johnson, B. L. Keller, and D. B. Wilde. 1978. Pages 56-57 *in* Coyote-prey assessment on a NERP site in southeastern Idaho. ORNL-5304. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Linder, A. D. and R. W. Sehman. 1978. The herptofauna of the Idaho National Engineering Laboratory Site. *Journal of Idaho Academy of Science* 13:47-50.
- Markham, O. D. 1978. Activation and fission products in the environment near the Idaho National Engineering Laboratory Radioactive Waste Management Complex. IDO-12085. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 19 pp.
- Markham, O. D., ed. 1978. Ecological studies on the Idaho National Engineering Laboratory Site. 1978 Progress Report. IDO-12087. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 370 pp.
- Markham, O. D., K. W. Puphal, and T. D. Filer. 1978. Plutonium and americium contamination near a transuranic storage area in southeastern Idaho. *Journal of Environmental Quality* 7:422-428.
- McBride, R., N. R. French, A. H. Dahl, and J. E. Detmer. 1978. Vegetation types and surface soils of the Idaho National Engineering Laboratory Site. IDO-12084. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 29 pp.
- Millard, J. B., T. H. Craig, and O. D. Markham. 1978. Cannibalism in adult great-horned owls. *Wilson Bulletin* 90:449.
- Overton, C. K., D. A. Cannamela, and D. W. Johnson. 1978. Assessing environmental

Appendix H

- effects of river fluctuations on the INEEL National Environmental Research Park. Pages 68-82 in National Environmental Research Park Symposium: Natural Resource Inventory, Characterization and Analysis. ORNL-5304. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Reynolds, T. D. 1978. The response of native vertebrate populations to different land management practices on the Idaho National Engineering Laboratory Site. Ph.D. Dissertation. Idaho State University, Pocatello. 105 pp.
- Reynolds, T. D. and T. D. Rich. 1978. Reproductive ecology of the sage thrasher (*Oreoscoptes montanus*) on the Snake River Plain. Auk 95:580-582.
- Reynolds, T. D. and C. H. Trost. 1978. Vertebrate population levels correlated with different land use practices on the INEEL National Environmental Research Park. Pages 45-54 in ORNL-5304, National Environmental Research Park Symposium: Natural Resource Inventory, Characterization and Analysis. Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Seal, U. S. and R. L. Hoskinson. 1978. Metabolic indicators of habitat condition and capture stress in pronghorns. Journal of Wildlife Management 42:755-763.
- Sehman, R. W. and A. D. Linder. 1978. Amphibian and reptilian fauna of the Idaho National Engineering Laboratory Site. IDO-12086. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 26 pp.
- Wilde, D. B. 1978. A population analysis of the pygmy rabbit (*Sylvilagus idahoensis*) on the Idaho National Engineering Laboratory site. Ph.D. Dissertation. Idaho State University, Pocatello. 172 pp.

1977

- Craig, T. H. 1977. Raptors of the Idaho National Engineering Laboratory Site. M. S. Thesis. Idaho State University, Pocatello. 102 pp.
- Craig, T. H. and F. Renn. 1977. Recent nesting of the Merlin in Idaho. Condor 57:392.
- Hoskinson, R. L. 1977. Migration behavior of pronghorn antelope and summer movements and fall migrations of pronghorn fawns in southeastern Idaho. Ph.D. Dissertation. University of Minnesota, Minneapolis. 125 pp.
- Johnson, M. K. and R. M. Hansen. 1977. Comparison of point frame and hand separation of coyote scats. Journal of Wildlife Management 41:319-320.
- Johnson, W. C. 1977. Examination of censusing techniques for small mammals in a high desert ecosystem. M. S. Thesis. Idaho State University, Pocatello. 95 pp.
- Overton, C. K. 1977. Description, distribution, and density of Big Lost River salmonid populations. M. S. Thesis. Idaho State University, Pocatello. 55 pp.
- Sehman, R. W. 1977. Hibernaculum dynamics of the great basin rattlesnake (*Crotalus viridis lutosus*). M. S. Thesis. Idaho State University, Pocatello. 66 pp.
- Woodruff, R. A. 1977. Annual dispersal, daily activity pattern and home range of *Canis latrans* on the Idaho National Engineering Laboratory Site. M. S. Thesis. Idaho State University, Pocatello. 125 pp.

1976

- Markham, O. D., ed. 1976. 1975 progress report Idaho National Engineering Laboratory Site radioecology-ecology programs. IDO-12080. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 205 pp.
- Markham, O. D., ed. 1976. Summaries of the Idaho National Engineering Laboratory Site

Appendix H

Ecological Information Meeting. IDO-12079. U.S. Department of Energy, Idaho Operations Office, Idaho Falls. 68 pp.

Markham, O. D., R. Autenrieth, and R. Hoskinson. 1976. Concentration of radionuclides in tissue of antelope on and near the Idaho National Engineering Laboratory Site. Pages 63-64 *in* Proceedings of Seventh Biennial Pronghorn Antelope Workshop, Twin Falls, Idaho.

Powers, L. R. and T. H. Craig. 1976. Notes on the status of nesting ferruginous hawks (*Buteo regalis*) in Little Lost River Valley and vicinity, southeastern Idaho. Murrelet 57:46.

1974

Johnson, D. W. 1974. Fisheries research at the Idaho National Engineering Laboratory. Page 44 *in* Proceedings of National Environmental Research Park Symposium, Idaho Falls, Idaho.

Markham, O. D. 1974. Environmental and radiological monitoring at the National Reactor Testing Station during FY-1973. Radiation Data and Reports 15:227-246.

Markham, O. D. 1974. Radioecology of Idaho National Engineering Laboratory—radioecology and ecology programs at Idaho National Engineering Laboratory. Pages 33-34 *in* Proceedings of National Environmental Research Park Symposium, Idaho Falls, Idaho.

Rucker, R. L. 1974. The home range of the coyote on the Idaho National Engineering Laboratory. Page 49 *in* Proceedings of National Environmental Research Park Symposium, Idaho Falls, Idaho.

1973

Markham, O. D. 1973. National Reactor Testing Station environmentally related publications. IDO-12078. U.S. Atomic Energy Commission, Idaho Operations Office, Idaho Falls. 11 pp.