

ERSAL

Legend: (RD)G Research and Development-Grant
L(RD)PR Library-Research and Development-Projects
(RD)PRaz Research and Development-Project-Arizona
(RD)PR Research and Development-Projects
(RD)P Research and Development-Proposals
(B)C Budget-Contracts
ODFW Oregon Department of Fish and Wildlife
OWRD Oregon Water Resources Department

RECORDS TRANSMITTAL LIST

RESEARCH PROJECTS CASE FILES

11/07/85

Accession number 85:58(170)

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Alphabetical order file folder titles:

Box 1 (6/4/06/10)

FF1	(RD)G	AID/PERU	1981-82
2	L(RD)PR	AMAX-Pacific Project	1974-75
3-13	(RD)PRaz	Arizona ERTS-Budget and Related	1970-75
		-Contracts	
		-Correspondence	
		-Progress Reports	
		-Final Draft of Proposal	
		-Highlight Requests	
		-Illustrations	
		-Legend	
		-Manuscripts	
		-NASA Forms (originals for duplication)	
		-Presentation Abstract Given to Planning Groups	
14	(RD)PR	Army Corps Earthen Dams Project	1977-78
15	(RD)PR	Army Corps of Engineers-Remote Sensing Short Course	1976
16	(RD)P	BLM DSC On-site Contractor Support	1982
17	L(RD)PR-3	Benton County Project-General	1973-74
18	(RD)PR	Black and White Mosaic/State of Oregon	1973-74
19	L(RD)PR	Brush Field Inventory	1975
20	(RD)PR	Calapooya Watershed Project	1976
21	L(RD)PR	Clatsop County Project	1974-75
22	L(RD)PR	Coastal Vegetation Digital Study (COVEDS)	1974-75
23	(RD)PR	Columbia River Water Policy Project J/M	1976-77
24	(RD)P	Computer-Assisted Mapping of Landsat-Based Information (CAMLI)	1979
25	(RD)PR	Coos Bay Harbor Dredging Project	1977-78
26	L(RD)PR	Coos Bay South Slough	1975
27	(RD)P	Cost and Procedural Analyses for Co-ordinated Agency Resource Inventory	1979
28	(RD)P	Cottage Grove Watershed Project	1978-79
29	L(RD)PR-1	Crook County Project-General Apr 1972-June	1973
30		Crook County Project-General July 73-June	1974
31	(RD)P	Crook County Planning Department	Nov 1978
32	(RD)PR	Crump Lake Inventory	1975
33	(RD)PR	Days Creek Dam/South Umpqua River	1974
34-35	(RD)PR	DEQ Acreage Validation	1981-82
36-37	(RD)PR	DEQ Field Burning	1979-80
38	(RD)PR	Deschutes County Land Use and Housing Monitoring	1978-79
39	(B)C	Deschutes County Planning Department	1981
40	(RD)PR	Deschutes River Recreational Use Project	1977-78
41-42	(RD)P	Deschutes County Planning-Natural Resource Inventory	1979-80

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Alphabetical order file folder titles:

Box 2 (6/4/06/20)

FF43	(RD) PR	Douglas County Inventory-State Dept. of Forestry (slides enclosed)	1974-75
44	(RD) PR	Elk Creek	June 1975
45	(RD) P	Enhancement of Landsat Data Proces- sing and Image Display	1979-80
46	(RD) P	Filbert IPM Project	1981-82
47	(RD) PR	Forestry Incentives	1976
48	(RD) P	Forestry Map Update	no date
49	(RD) P	Information Systems/Wheat	1981-82
50	(RD) P	Inventory of Surface Resources U.S. Forest Service	1978
51	(RD) PR	Jumpoff Joe Creek/Merlin Reservoir (photos enclosed)	1974-75
52	(RD) PR	Land Use Map of Oregon	1974-75
53	L(RD) PR	Land Use Map Project	1974-75
54	(RD) PR	Land Use Monitoring Project for Tax Assessment Lake County	1978-79
55	(RD) PR	Land Use Monitoring Project for Tax Assessment Morrow County	1978-79
56	(RD) PR	Landsat Data Analysis Workshop PNRC	1979
57	(RD) PR	Malheur Lake Project	1976-78
58	(RD) PR	Eelgrass-USF & W Malheur	1977
59	(RD) P	Eelgrass and Kelp Beds USF & W	1977
60	L(RD) PR	Mapping of NEW Roads, Portland Region (photos enclosed)	no date
61	(RD) PR	Morrow County Tax Assessment Project- Revised	Oct. 1977
62	(RD) PR	Morrow County Tax Assessment Project (Photos, slides, etc. enclosed--very large file)	1975-77
63	(RD) PR	Mountain Pine Beetle Hazard Risk Rating	1982
64	(RD) P	Multiple Resource Inventory System Pro- ject Adaptation of RS-Techn. to large area Nat. Res. Inv.	1979
65	(RD) PR NAPAC	Sauvie Island, Redwood Area, Steens Mtn, Cape Lookout (photos and slides)	1975
66	(RD) P	NASA/Ames Remote Sensing Education and Demonstrational Slide/Tape Program (no slides in folder, however)	1978
67	(RD) P	NASA/Ames University Consortium Agree- ment Forms	1979
68	(RD) P	NASA Applications Notice	1981
69	(RD) P	NASA University Program VITALE	1982-83

70	(RD)P	National Wetland Inventory Northern California	1978
71-73	(RD)PR	Natural Area Preserves Advisory Committee--General, Memos of Understanding and Reports	1975-77
74-78	5 bound reports	Vegetation Inventory of Certain State-Owned Lands in Selected Oregon Counties	1975-77
79	(RD)PR	NE Oregon Elk	1979
80	(B)C	NE Oregon Elk Inventory	1978-79
81	(RD)P	NE Oregon Fire Protection Oregon State Dept. of Forestry	1979
82	(RD)P	NW Oregon Elk Forage, Oregon Fish and Wildlife Dept.	1978
83	L(RD)PR	Open Space Study (Central Oregon)	1974-75
84	L(RD)PR	Oregon Coastal Conservation & Development Commission Project	1973-74

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Box 3 (6/4/06/30)

FF85	(RD) P	ODFW Antelope	1982-83
86	(RD) PR	ODFW Pronghorn Antelope	1980
87	(RD) P	ODFW Western Oregon Elk	1981-83
88-95	L(RD) PR	OREGON ERTS (Earth Resources Technology Satellite)	1974-75
		ERTS-1 Materials, photos enclosed some material dated, one 1971	1973
96	(RD) PR	Fire Rehabilitation Project	1980
97	(RD) P	Oregon Landsat Data Processing System Enhancement	1980-81
98	(RD) PR	Oregon Land Use/Pacific NW Regional Commission	1975
99	L(RD) PR	OSU Campus Heat Loss Detection Project	1976-77
100	(RD) P	PNWF & RES Forest Residues and Energy	1980
101	L(RD) PR	Portland City Planning Commission	1974-75
102	(RD) PR	Projects-General	1973-76
103	L(RD) PR	Project 123 General and CRIS Reports Poulton	1972-75
104	(RD) P	Proposal Opportunities NASA	1980
105	(RD) P	Region Enclosing and Plotting Software (Proposal to ESL)	1977
106	(RD) PR	Remote Sensing Survey	1977
107	L(RD) PR	Rural Recreation Subdivision Study (Central Oregon)	1974-75
108-111	(RD) P	Sea Grant Proposals 1976--	1980-82
112	(RD) P	Small Grains/Scene Radiation Research	1981-83
113	L(RD) PR	Spotted Owl (photos enclosed)	1974-75
114	L(RD) PR-2	Squaw Butte Legend Development	1973-74
115	(RD) PR	Steens Mountains Snow Cover Study (negative enclosed)	1975
116	(RD) P	Sweet Cherry	1981-82
117	(RD) P	Surface Mining Inspectors (photos)	1981-82
118	L(RD) PR	Taiwan Cooperative Project	1974-75
119	(RD) PR	Tansy	1972-77
120	(RD) P	Thematic Mapper Simulator	1980
121	(RD) PR	Thermal Pollution Willamette, Columbia-DEQ (see box 4 for more files)	1977

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Alphabetical order file folder titles:

Box 4 (6/4/06/40)

FF122-24 (RD)PR

		Thermal Pollution Willamette, Columbia-DEQ (photos, slides, maps enclosed)	1975-77
125	(RD)G	Korea	1981
126	(RD)P	USFWS/Stream Corridors/SAI	1981
127	(RD)PR	Thomas Cottonwood Watershed Project SCS	1976-77
128	(RD)PR	Tillamook Bay & Watersheds	1976-77
129	L(RD)PR	Tussock Moth Project	1974
130	(RD)PR	Umatilla Indian Reservation Project	1975-76
131	L(RD)PR	Washington County Forest Resources and Conservation Land Zoning Inventory (slides enclosed)	1974-75
132	L(RD)PR	Washington County Park Site Selection	1975(?)
133	L(RD)PR	Water Rights Study	1974
134	(RD)PR	Western Oregon Timber Clearcut Monitoring Project	1977
135	L(B)C	Contracts-General	1972-75
136	(B)	Budget and Finance-GENERAL	1981-82
137	(B)	Budget and Finance-PLANNING	1982-83
138	(B)	Budgeting File	1977
139	(B)C	Contracts-GENERAL	1974-79
140	(B)C	Agristars Wheat and Barley	1981
141	(B)C	C-Z Terrain Analysis	1981
142	(B)Cec	Army Corps of Engineers Remote Sensing Short Course	1976
143	(B)Cec	Army Corps of Engineers Scott English	1977
144	(B)C	Calapooya	1976
145	(B)Cec	Calapooya Creek Watershed, Douglas County, Oregon	1976
146	(B)Cec	Crump Lake USDI/FWS	1975
147	(B)C	DEQ Acreage Validation	1981
148	(B)Cec	Days Creek Watershed USDI/FWS	1975
149	(B)Cec	DEQ Acreage Validation	1980
150	(B)C	DEQ Field Burning	1979-80
151	(B)Cec	Douglas County Inventory Oregon State Dept. of Forestry	1975-76
152	(B)C	Forest Service Landsat Assistance	1979-80
153	(B)C	Heppner Elk-ODFW	1980
154	(B)C	Landsat Data Analysis Workshop/PNRC	1978-80
155	(B)C	Landsat Data Analysis Workshop/PNRC	1979-80
156	(B)C	Landsat Data Processing System Enhancement	1980-82
157	(B)C	ESL Murray 6178 Polygon	1977-78
158	(B)C	ERSAL Seventh Year Contract	1977-78
159	(B)C	Fire District Mosaics-DEQ	1980-81
160	(B)C	Landsat Data Analysis Workshop II	1979-80
161	(B)C	Large Area Multiple Resource Inventories	1979-80

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Box 5 (6/4/06/50)

FF162	(B)C	NAPAC Oregon State Land Board	1977
163	(B)C	NASA-Ames Consortium--MATE, Glen Miller	1978
164	(B)C	NASA-Ames Consortium Agreement	1981
165	(B)Cec	NASA-Ames University Consortium (PNRC/LRIDP) An Overview Demonstration in 35mm Slides	1977
166	(B)C	NASA University Program VITALE	1980-81
167	(B)C	NASA University Program VITALE	1979-80
168	(B)C	NASA University Program VITALE	1977-78
169	(B)C	NASA University Program VITALE	1976-77
170	(B)C	NASA University Program VITALE	1975-76
171	(B)C	NASA University Program VITALE	1974-75
172	(B)C	NASA University Program VITALE	1972-73
173	(B)C	National Wetland Inventory Western Oregon, Malheur	1978
174	(B)C	Northeast Oregon Elk Habitat Inventory (Blue Elk)	1981-82
175	(B)C	ODFW Management Elk Cover	1980-81
176	(B)C	ODFW Pronghorn Antelope	1982
177	(B)C	Oregon Land Use University of Ore. PNRC	1975
178	(B)C	Oregon Multiple Resource Inventory	1980-81
179	(RD)PR	OWRD Statewide Land Use Inventory	1979
180	(B)C	OWRD Statewide Land Use Inventory	1979
181	(B)C	PIXSYS Work Manual/Users Guide USDA Forest Service	1978-80
182	(B)C	PNRC Grant Regulations and Require- ments	1977
183	(B)C	Ragwort Documentation Crenshaw/ NASA-Ames	1977
184	(B)C	Remote Sensing in Resource Analysis An Undergraduate/Grad Course PNRC	1978-80
185	(B)C	Tansy Ragwort Maps	1977
186	(B)Cec	Tansy State Dept. of Agriculture	1977
187	(B)C	Thomas Cottonwood Creek Project	1976-77
188	(B)C	Tillamook Bay & Watersheds USDA/FS	1975-76
189	(B)C	USDA Schrupf 678 Paper	1978

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(RG 218) Environmental Remote Sensing Applications Laboratory (ERSAL), 1961-1988

Box 1

Grant Proposal: Remote Sensing Applications to Resource Management in Oregon, 1981 (continuation of NASA grant)

Reports and Publications

Annual Projects and Activities of the ERSAL Reports, 1972-1988
Segmentation of Landsat Data Into Regions of Connected and Uniform Ground Cover, 1983
Understanding Radar Backscatter from Non-Vegetated Surfaces with Shuttle Imaging Radar-B, 1983
Spectral Reflectance Relationships to Leaf Water Stress, 1986
Landsat Biomass Mapping, 1984
Remote Sensing of Plant Relations, 1986
Assessing Elk Trail and Wallow Impacts in Mount Rainier National Park, 1986
Landsat Thematic Mapper Band Transformations For Characterizing Grass Vegetation, 1984
Research in Remote Sensing of Vegetation-Quarterly Reports, 1984
Vegetation Cover Type Identification and Timber Volume Inventory, 1976 (Douglas County Forest Condition Mapping and Forest Volume Inventory Demonstration Project)
The Application of Remotely Sensed Data in Support of Emergency Rehabilitation of Wildlife-Damage Areas, 1980
Monitoring Annual Ryegrass with the Landsat Thematic Mapper Bands, 1984
Burned Acreage Validation (Benton, Linn, Lane Counties), 1980
Classification of Digital Landsat Data for Wildlife Management Applications on the Warm Springs Indian Reservation of Oregon, 1986
The Influence of Soil Organic Matter Content and Soil Particle Size on Spectral Reflectance, 1987
Spectral Reflectance Patterns of Some Key Cascade West Slope Vegetation Types, 1985
Asymptotic Characteristics of Landsat Thematic Mapper Bands for Monitoring Vegetation, 1984
Snow Cover and Vegetation Mapping Using Landsat-1 MSS Digital Data Steens Mountain, 1975
Landsat 3 RBV: Forestry Mapping Applications, 1980
Research in Rangeland Management-Progress Reports, 1984-1986
The Comparative Evaluation of ERTS-I Imagery For Resource Inventory in Land Use Planning, 1974
National Vegetation Survey-Program Plan, 1986 (U.S.D.A. Forest Service)
Sensitivity of Important Western Conifer Species to SO₂ and Seasonal Interaction of Acid Fog and Ozone for Western Confers Research Cooperative National Forest Response Program, 1986
Inventory and Monitoring of Natural Vegetation and Related Resources in an Arid Environment-An Evaluation of ERTS-1 Imagery, 1974 (2 folders)
Vegetation Inventory of Certain State-Owned Lands in Selected Oregon Counties, 1975-76 (3 reports)

Box 2

Inventory and Analysis of Natural Vegetation and Related Resources from Space and High Altitude Photography, 1972

Oregon Statewide Land Use Inventory-Final Project Report and Appendices, 1981
ERSAL Projects Funded By Sources Other Than NASA University Programs Office, undated

Article Reprints-Published Research by ERSAL Staff, 1976-1985
Conference Papers and Article Drafts by ERSAL Staff, 1987

Newsletters, 1978-1981

Brochures

Landsat Application Program, undated (printed by NASA)
Land Resource Inventory Demonstration Project, 1979 (printed by NASA)

Handbooks and Instructional Materials

BPA Manual (Landsat data management), 1976 (2 folders)
Compositional Analysis Procedural Manual, 1983
Computer Programs Application Information, 1981-1982 (3 folders)
Digital Processing of Landsat Data Workshops, 1975
Introduction to Geographic Information Systems and Computer-Assisted Map Analysis, undated
An Outline of the Descriptive and Interpretative Legend for Ecological Resource Analysis, 1973
Radiometer Data Computer Programs Information, 1983

Range Management Short Course: Use of Remote Sensing for Resource Inventory, 1972 (2 folders)
Remote Sensing Handbook for Appraisal Short Course, 1980

Woodside Quadrangle Module Training Materials, 1981 (2 folders)

Research Project Files

5-County Project-Landsat Land Use and Vegetative Inventory, 1978-1979 (2 folders)

Box 3

NAPAC Field Notes-Northeastern Oregon, 1977 (2 folders)
Saddle Mountain Elk Study, 1982-1983 (3 folders)
Wasco County/15-Mile Creek (Vegetation and Acreage Study), 1979-1980 (2 folders)

Photographs (all slides unless otherwise noted)

Alpha Files: (3 folders)

- A. ERSAL
- B. Project Planning
- C. Landsat Program
- D. Landsat System
- E. Landsat Scenes and Mosaics
- F. Landsat Multi-temporal Scenes
- I. EROS Data Center-General
- J. EROS Digital Image Enhancement System

- K. Image 100-Display and Enhancement
- L. Digital Data Analysis Theory
- M. RBV Images
- N. Comparative Slides of Southern Deschutes County-RBV and Color U-2
- O. Misc. Space Photos
- P. Intro. To Remote Sensing and Remote Sensing Theory
- Q. U-2 Photos
- R. U-2 System
- V. Misc. A/C, Cameras, Aerial Imagery
- X. Photo Analysis Techniques
- Y. Density Slicing
- Z. Ground Truth Activities
- AA. Tansy Ragwort Project

- Ecological Resource Analysis Land Use, 1967-1971
- Flow Charts, 1975-1978
- General, 1969-1977 (2 folders)
- “Ground Photos,” 1961-1974 (3 folders)
- Ground Truth Checks-Soil and Vegetation, 1967-1972
- Ground Truth Slides-Southeast/Southwest/Northwest/Northeast Oregon NC/CIR, 1974
- Images for the 8th and 9th Year Annual Reports (2 folders-prints and negatives)
- Legend Development
- Mapping and Overlays, 1968-1973
- Practical Use of Stereoscopes and Other Lab Equipment, 1966-1977
- “Pre” and “Post” Fire Landscape Images, undated (negatives)
- Reconnaissance ERTS images (prints and negatives)
- Space Photography, 1970-1973
- Thermographs
- U2 Photography-Color IR/Crook and Jefferson Counties, 1973

Slide Presentations:

- Environmental Satellites: Systems, Data Interpretation, and Applications, 1976
- NSF Short Course in Remote Sensing, 1971

Projects:

- Days Creek/Jumpoff Joe Creek Dam Project, 1975
- Douglas County Vegetation Classification Study, 1976
- Five County 208 Project – Field Photographs, 1978
- NAPAC Field Slides-Cape Lookout/Old Growth Timber/Sauvie Island, 1972-1977
- National Wetland Inventory-Field Slides, 1974-1977
- Ochoco National Forest, 1973 (4 folders; 2 of the files contain prints and negatives)
- Various-Tansy Ragwort Project, Wetlands Study/Center Pivots, State Wide Land Use, Morrow County/Christmas Lake Valley, AgriSTARS Radiometry, China Wheat, Digital Image Analysis, State Land Use Project, Forest Fire Rehab, Elk Habitat, Field Burning (1 folder)