

# HISTORICAL FIELD NOTEBOOK COLLECTION

A collection of digital geologic field notebooks dating back to the early 1900s

WASHINGTON  
GEOLOGICAL SURVEY  
June 2020



WASHINGTON STATE DEPARTMENT OF

**NATURAL RESOURCES**

WASHINGTON GEOLOGICAL SURVEY

# Historical Field Notebook Collection

## HISTORY OF DATA PRESERVATION AT THE SURVEY

Since its inception in 1890, the Washington Geological Survey (WGS) has collected geologic information in paper format, some of which is readily available through the Washington Geology Library. This information includes theses, field notebooks, maps, out-of-print publications, and never-published materials. However, parts of the collections are perishable, meaning only one physical document exists that records that information. Therefore it is important for WGS to preserve these items before they are lost.

## HISTORY OF THE FIELD NOTEBOOK PRESERVATION PROJECT

Our effort to preserve over 125 years of WGS geologic records has been made possible by the U. S. Geological Survey's Data Preservation Program. A grant awarded from this program in 2017 has allowed WGS to dedicate staff time to scan and make publicly available the Survey's collection of field notebooks dating back to 1899, many of which are starting to deteriorate. These notebooks serve as a valuable resource to our geologic mapping team year after year, and help with historical research for others. Yet they are not a well-known source of information, as they are inaccessible to anyone not physically within the Washington Geology Library. Until now they have never been cataloged.

## HOW TO GET THE BOOKS

To make these books available to the public, we have produced an online catalog that provides links to scanned PDFs of the books. Provided are the book identification number, author(s), title, date, and link to the PDF file. Many of the books were created by county, so searching the catalog for a specific county will help when looking for a specific area. Click on the "Link" text to open the file in a new browser window. From here you can save the file if you like.

## LOCATION OF SITES

In order to make use of many of the field notebooks, the reader must understand the locational system many of the older books use, known as the Culver System. This system was replaced with the Modified Culver System in the 1980s. More recent field notebooks, and others we plan to add, use GPS and other station locations, making them easier to locate.

For an in-depth examination of the Culver System see Appendix A.

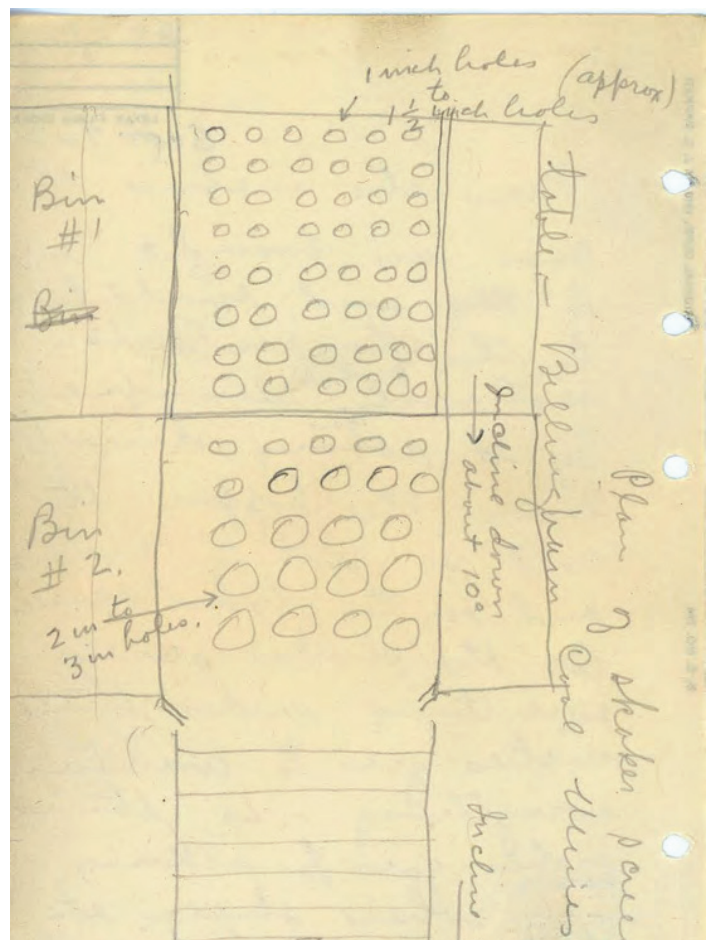
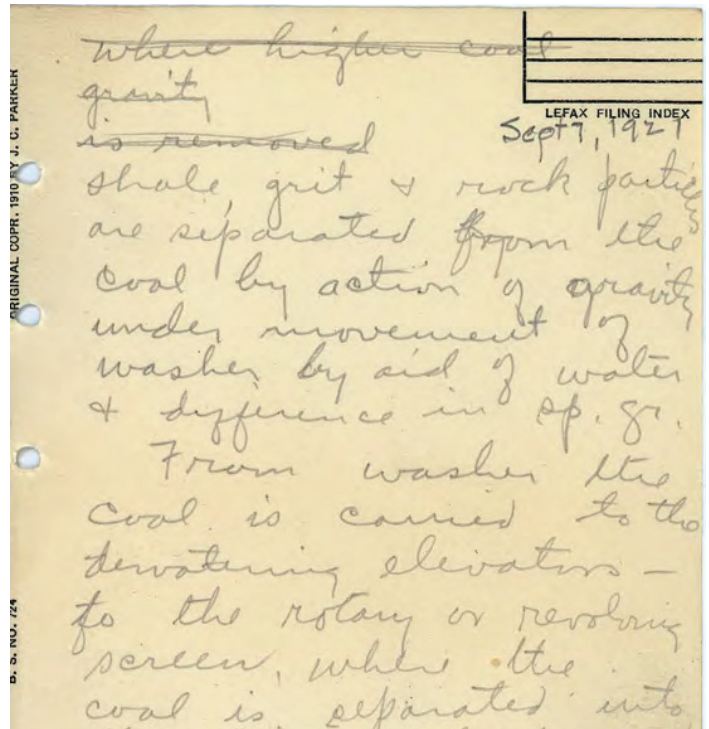


Figure 1. Scanned pages from a 1921 field notebook about coal mining in Whatcom County by Olaf P. Jenkins.

Book Number	Author(s)	Title	Year	Number of Pages	PDF Link
1	O. P. Jenkins	Manganese 1921 Triple Trip Mining Co. (Lake Cushman District) Summer 1921	1916	29	<a href="#">Link</a>
2	O. P. Jenkins	Iron Report of Washington Summer of 1921- Western WA	1921	36	<a href="#">Link</a>
3	O. P. Jenkins	Iron Report of Washington Summer of 1921- Eastern WA	1921	89	<a href="#">Link</a>
4	O. P. Jenkins	Field Notes-1921	1921	78	<a href="#">Link</a>
5	O. P. Jenkins	Lime-1921	1919	10	<a href="#">Link</a>
6	O. P. Jenkins	Coal-1921-Bellingham Coal Mines-Whatcom County	1921	14	<a href="#">Link</a>
7	O. P. Jenkins	Stratigraphy-Bellingham District-Whatcom County	1921	14	<a href="#">Link</a>
8	E. Barker	Barker-Iron, Grays Harbor, 1939	1939	9	<a href="#">Link</a>
9	J. Holt	Holt-Iron, Grays Harbor, 1939	1939	10	<a href="#">Link</a>
10	J. Schmidt	Schmidt-Iron, Grays Harbor	1939	36	<a href="#">Link</a>
11	C. Pense	Pense-Iron-Grays Harbor-1939	1939	12	<a href="#">Link</a>
12	R. W. Merritt	Merritt-Stevens Co. Limestone-1912	1912	25	<a href="#">Link</a>
13	S. Shedd	Shedd-Iron, Coal, and Miscellaneous-1900	1900	26	<a href="#">Link</a>
14	S. Shedd	Shedd-Iron and Miscellaneous-1899	1899	24	<a href="#">Link</a>
15	A. A. Hammer	Hammer-Miscellaneous-1909	1909	27	<a href="#">Link</a>
16	F. M. Handy	F. M. Handy July 28, 1913	1913	53	<a href="#">Link</a>
17	H. E. Culver	Various Locations	1926	56	<a href="#">Link</a>
18	Warren	Warren No. 1- Bellingham Area and Yakima and Benton Counties, 1934	1933	71	<a href="#">Link</a>
19	S. N. Twiss	Twiss No.1 Bellingham Oil and Gas Investigation, Western Whatcom County May and June 1934	1934	68	<a href="#">Link</a>
20	H. E. Culver	Lewis County No. 2	1914	54	<a href="#">Link</a>
21	H. E. Culver	Various Locations	1931	76	<a href="#">Link</a>
22	H. E. Culver	Various Locations	1930	61	<a href="#">Link</a>
23	H. E. Culver	Lewis County No. 1	1913	71	<a href="#">Link</a>
24	H. E. Culver	Lewis County No. 3-Also has some Cowlitz County info near Castle Rock and Kelso	1917	69	<a href="#">Link</a>
25	S. N. Twiss	Twiss-Yakima Valley Reconnaissance	1933	30	<a href="#">Link</a>
26	H. E. Culver	Lewis County No. 4-Some Stevens County in back	1917	35	<a href="#">Link</a>
27	H. E. Culver	Lewis County No. 4-Some Stevens County in back-Part 2	1951	22	<a href="#">Link</a>
28	Unknown	Various Locations	1927	51	<a href="#">Link</a>
29	Broughton-Hunting	Sherwood Tungsten-1942, Read Iron-1942	1942	10	<a href="#">Link</a>

Book Number	Author(s)	Title	Year	Number of Pages	PDF Link
30	Broughton-Hunting	Kelsey Iron-1943, Blewett Iron-1943	1943	18	<a href="#">Link</a>
31	Broughton-Friedman-Thomas	Magnetic Survey Blewett-Cle Elum 1943	1943	25	<a href="#">Link</a>
32	Broughton-Teir-Valentine-Hunting-Stevenson	Magnetic Survey Blewett and [Etienne] Creek Iron 1942	1942	58	<a href="#">Link</a>
33	G. M. Valentine	Deming Area, Whatcom County-1941	1941	15	<a href="#">Link</a>
34	Warren	Warren No. 2-Bellingham Area-1934	1933	28	<a href="#">Link</a>
35	R. C. Newcomb	Newcomb No. 1-Bellingham Area-1934	1934	33	<a href="#">Link</a>
36	R. C. Newcomb	Newcomb-Bennett No. 2-Bellingham Area-1934	1934	34	<a href="#">Link</a>
37	R. C. Newcomb	Newcomb-Bennett No. 3-Bellingham Area-1934	1934	35	<a href="#">Link</a>
38	P. Crane	Manganese-Olympic Peninsula-Book No. 1	1940	15	<a href="#">Link</a>
39	Slater	Humptulips, Falls, and Willaby Creek Trails	1938	25	<a href="#">Link</a>
40	R. H. B. Jones	Chewelah Quad, Book No. 1	1927	72	<a href="#">Link</a>
41	Broughton-Tier-Stevenson	Magnetic Surveys-Anderson Iron, Cle Elum Iron, Big Iron-1943-44	1943	23	<a href="#">Link</a>
42	Slater	Fletcher and Elwell Creek, Bunch Lake	1938	29	<a href="#">Link</a>
43	P. H. Knowles	Kittitas County Mineral Survey	1936	30	<a href="#">Link</a>
44	Slater	Falls Creek, Gatton Creek Trails, Quinault	1938	18	<a href="#">Link</a>
45	R. H. B. Jones	Chewelah Quad, Book No. 2	1927	48	<a href="#">Link</a>
46	Slater	Thurston County	1938	40	<a href="#">Link</a>
47	Unknown	Magnetic Surveys-Read Iron, Hill Iron, Brown-Johnson-1944	1944	41	<a href="#">Link</a>
48	Broughton-Hunting-Stevenson-Thomas-Friedman	Magnetic Survey- [Etienne] Creek to Cle Elum River, 1942-43	1942	69	<a href="#">Link</a>
49	Broughton-Teir-Valentine	Buckhorn Magnetic Survey-1942	1942	56	<a href="#">Link</a>
50	V. E. Barnes	Chewelah Quad-1927	1926	70	<a href="#">Link</a>
51	H. E. Culver	Book 12	1939	77	<a href="#">Link</a>
52	H. E. Culver	Book 13	1944	82	<a href="#">Link</a>
53	H. E. Culver	Book 14	1951	21	<a href="#">Link</a>
54	E. C. Cram	Cram No. 1-Bellingham Area-1934	1933	77	<a href="#">Link</a>
55	W. Carithers	Turk Magnesite Diamond Drill Record-1942	1942	26	<a href="#">Link</a>
56	W. R. Nen	Various Mines	1938	73	<a href="#">Link</a>

Book Number	Author(s)	Title	Year	Number of Pages	PDF Link
57	R. A. Anderson	Anderson-Ferry County Mineral Survey WPA-1936	1936	25	<a href="#">Link</a>
58	H. Kirkema	Kirkema-Mine Traverse Notes-1939 (supplement Melrose's notes)	1939	7	<a href="#">Link</a>
59	H. Kirkema	Kirkema-Mine Examination Traverse Notes-1939 (supplement Melrose's notes)	1939	20	<a href="#">Link</a>
60	S. Shedd	East Slope Cascades	1900	24	<a href="#">Link</a>
61	Slater	Cook, Fletcher, and Howe Creek Trails, Grays Harbor-1938	1938	57	<a href="#">Link</a>
62	Slater	Colonel Bob Lake, Quinault Contacts-Grays Harbor-1938	1938	7	<a href="#">Link</a>
63	Slater	No. 1 Stevens-Cook Creek Trails-Grays Harbor-Part 1	1937	12	<a href="#">Link</a>
64	Slater	No. 1 Stevens-Cook Creek Trails-Grays Harbor-Part 2	1938	13	<a href="#">Link</a>
65	Slater	No. 1 Stevens-Cook Creek Trails-Grays Harbor-Part 3	1938	9	<a href="#">Link</a>
66	Warren	Warren No. 3-Bellingham Area-1934	1934	15	<a href="#">Link</a>
67	Williamson	Williamson-Iron-Grays Harbor 1939	1939	13	<a href="#">Link</a>
68	Search	Search-Ringold and Other Alluvium-Central Washington-1934	1934	18	<a href="#">Link</a>
69	F. M. Handy	1191-A to J- Spokane County-Clay	1936	72	<a href="#">Link</a>
70	Hougland	Hougland-Lava and Miscellaneous-1934	1933	24	<a href="#">Link</a>
71	Unknown	1191-A to J- Spokane County-Clay-2	1936	8	<a href="#">Link</a>
72	B. M. Reynolds	Iron Investigation-Skagit County	1940	12	<a href="#">Link</a>
73	Tier	Tier's Notes? On Chopaka Mountain	1942	5	<a href="#">Link</a>
74	Unknown	Book 1- WPA 7020-21 Coal	1900	33	<a href="#">Link</a>
75	Unknown	Twin Sisters	1938	46	<a href="#">Link</a>
76	S. N. Twiss	Twiss No. 2- Western Whatcom and Skagit Counties Oil and Gas Investigation-June-July 1934	1934	66	<a href="#">Link</a>
77	Unknown	Twin Sisters-2	1939	60	<a href="#">Link</a>
78	K. R. Peterson	W. P. A. Project No. 7020 Book 2	1900	25	<a href="#">Link</a>
79	H. E. Culver	Book 10	1935	74	<a href="#">Link</a>
80	Unknown	1189-King County	1936	79	<a href="#">Link</a>
81	K. Othberg	Coastal Areas	1974	32	<a href="#">Link</a>
82	Unknown	North Cascades-Upper Methow	1935	68	<a href="#">Link</a>
83	H. E. Culver	Book 11	1938	71	<a href="#">Link</a>
84	J. W. Melrose	Melrose-Mine Examinations-Tunnel Maps-1939	1939	70	<a href="#">Link</a>
85	J. W. Melrose	Melrose-Miscellaneous Mines-1941	1941	22	<a href="#">Link</a>
86	H. Kirkema	Kirkema-No. 1 Sample Notes Enumclaw Alunite-1940	1940	41	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
87	F. M. Handy	Handy-W.P.A. Mineral Survey- Spokane County-1936	1936	13	<a href="#">Link</a>
88	Multiple	Alunite-Enumclaw, King County	1940	34	<a href="#">Link</a>
89	J. E. Green	Manganese-Olympic Penninsula-1937-39	1937	37	<a href="#">Link</a>
90	S. N. Twiss	Twiss No. 3-Oil and Gas Investigation-Western Skagit County	1934	10	<a href="#">Link</a>
91	S. N. Twiss	Twiss No. 3-Oil and Gas Investigation-Olympic Peninsula	1934	28	<a href="#">Link</a>
92	W. New	Olympic Peninsula Investigation-1939	1939	38	<a href="#">Link</a>
93	H. Kirkema	Kirkema No 2- Trench Detail-Enumclaw Alunite-1940	1940	19	<a href="#">Link</a>
94	S. Shedd	Shedd-Limestone and Miscellaneous-1909	1909	15	<a href="#">Link</a>
95	S. Shedd	Shedd-Miscellaneous-1901	1901	46	<a href="#">Link</a>
96	H. E. Culver	Notebook No. 13-A	1947	53	<a href="#">Link</a>
97	Multiple	Adams County	1900	8	<a href="#">Link</a>
98	Multiple	Asotin County	1900	15	<a href="#">Link</a>
99	Multiple	Benton County-Book 1-Part 1	1900	21	<a href="#">Link</a>
100	Multiple	Benton County-Book 1-Part 2	1900	38	<a href="#">Link</a>
101	Multiple	Benton County-Book 1-Part 3	1900	39	<a href="#">Link</a>
102	Multiple	Chelan County-Book 1	1900	51	<a href="#">Link</a>
103	Multiple	Chelan County-Book 2-Part 1	1900	47	<a href="#">Link</a>
104	Multiple	Chelan County-Book 2-Part 2	1900	45	<a href="#">Link</a>
105	Multiple	Chelan County-Book 2-Part 3	1900	64	<a href="#">Link</a>
106	Multiple	Chelan County-Book 2-Part 4	1900	136	<a href="#">Link</a>
107	Multiple	Chelan County-Book 2-Part 5	1900	84	<a href="#">Link</a>
108	Multiple	Chelan County-Book 2-Part 6	1900	122	<a href="#">Link</a>
109	Multiple	Clallam County	1900	51	<a href="#">Link</a>
110	Multiple	Clark County	1900	36	<a href="#">Link</a>
111	Multiple	Columbia County	1900	9	<a href="#">Link</a>
112	Multiple	Cowlitz County	1900	21	<a href="#">Link</a>
113	Multiple	Douglas County	1900	113	<a href="#">Link</a>
114	R. L. Luper	Ferry County-Book 1	1933	45	<a href="#">Link</a>
115	Unknown	Notes on the Kelso-Cathlamet Area	1900	115	<a href="#">Link</a>
116	Multiple	Ferry County-Book 2-Part 1	1900	113	<a href="#">Link</a>
117	Multiple	Ferry County-Book 2-Part 2	1900	129	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
118	Multiple	Ferry County-Book 2-Part 3	1900	136	<a href="#">Link</a>
119	Multiple	Ferry County-Book 2-Part 4	1900	125	<a href="#">Link</a>
120	Multiple	Ferry County-Book 3-Part 1	1900	115	<a href="#">Link</a>
121	Multiple	Ferry County-Book 3-Part 2	1900	161	<a href="#">Link</a>
122	Multiple	Ferry County-Book 3-Part 3	1900	106	<a href="#">Link</a>
123	Multiple	Ferry County-Book 3-Part 4	1900	118	<a href="#">Link</a>
124	C. D. Campbell	Kettle Range Notes-Ferry County-1935-1946-Part 1	1935	118	<a href="#">Link</a>
125	C. D. Campbell	Kettle Range Notes-Ferry County-1935-1946-Part 2	1935	152	<a href="#">Link</a>
126	C. D. Campbell	Kettle Range Notes-Ferry County-1966-1967-Part 3	1966	107	<a href="#">Link</a>
127	Multiple	Franklin-Garfield Counties	1933	14	<a href="#">Link</a>
128	Multiple	Grant County	1900	117	<a href="#">Link</a>
129	Multiple	Grays Harbor County	1900	61	<a href="#">Link</a>
130	Multiple	Island County	1900	4	<a href="#">Link</a>
131	Multiple	Jefferson County	1900	41	<a href="#">Link</a>
132	Multiple	King County-Book 1-Part 1	1900	125	<a href="#">Link</a>
133	Multiple	King County-Book 1-Part 2	1900	134	<a href="#">Link</a>
134	S. L. Glover	Field Notes on Olympic Peninsula Strip-Part 1	1934	141	<a href="#">Link</a>
135	S. L. Glover	Field Notes on Olympic Peninsula Strip-Part 2	1934	129	<a href="#">Link</a>
136	S. L. Glover	Field Notes on Olympic Peninsula Strip-Part 3	1934	128	<a href="#">Link</a>
137	S. L. Glover	Field Notes on Olympic Peninsula Strip-Part 4	1940	157	<a href="#">Link</a>
138	C. W. Walker	Roslyn Cle Elum Coal Field-Part 1	1977	87	<a href="#">Link</a>
139	C. W. Walker	Roslyn Cle Elum Coal Field-Part 2	1978	80	<a href="#">Link</a>
140	Multiple	Kittitas County	1900	158	<a href="#">Link</a>
141	Multiple	Klickitat County	1900	23	<a href="#">Link</a>
142	C. W. Walker	Field Notes Taneum-Manastash-1980	1980	84	<a href="#">Link</a>
143	C. W. Walker	Field Notes: First Creek, Naneum Creek, Cole Creek, Cabin Creek-Kittitas County-1980	1980	25	<a href="#">Link</a>
144	C. W. Walker	Field Notes DGER 83-9: Geology and Coal Potential of the Taneum-Manastash Area, Kittitas County	1981	52	<a href="#">Link</a>
145	Multiple	Kitsap County	1945	10	<a href="#">Link</a>
146	Multiple	Lewis County	1900	114	<a href="#">Link</a>
147	Multiple	Lincoln County	1900	56	<a href="#">Link</a>
148	Multiple	Mason County	1900	39	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
149	Multiple	Okanogan County-Book 1-Part 1	1900	136	<a href="#">Link</a>
150	Multiple	Okanogan County-Book 1-Part 2	1900	108	<a href="#">Link</a>
151	Multiple	Okanogan County-Book 1-Part 3	1900	95	<a href="#">Link</a>
152	Multiple	Okanogan County-Book 1-Part 4	1900	139	<a href="#">Link</a>
153	Multiple	Okanogan County-Book 2-Part 1	1900	106	<a href="#">Link</a>
154	Multiple	Okanogan County-Book 2-Part 2	1900	118	<a href="#">Link</a>
155	Multiple	Okanogan County-Book 2-Part 3	1900	142	<a href="#">Link</a>
156	Multiple	Okanogan County-Book 2-Part 4	1900	85	<a href="#">Link</a>
157	Multiple	Okanogan County-Book 3-Part 1	1900	69	<a href="#">Link</a>
158	Multiple	Okanogan County-Book 3-Part 2	1900	106	<a href="#">Link</a>
159	Multiple	Okanogan County-Book 4	1900	94	<a href="#">Link</a>
160	Multiple	Okanogan County-Book 5-Part 1	1900	86	<a href="#">Link</a>
161	Multiple	Okanogan County-Book 5-Part 2	1900	75	<a href="#">Link</a>
162	Multiple	King County-Book 2-Part 1	1900	99	<a href="#">Link</a>
163	Multiple	King County-Book 2-Part 2	1900	113	<a href="#">Link</a>
164	Multiple	Pacific County-Book 1-Part 1	1900	59	<a href="#">Link</a>
165	Multiple	Pacific County-Book 1-Part 2	1900	75	<a href="#">Link</a>
166	Multiple	Pend Oreille County-Book 1-Part 1	1900	72	<a href="#">Link</a>
167	Multiple	Pend Oreille County-Book 1-Part 2	1900	76	<a href="#">Link</a>
168	Multiple	Pend Oreille County-Book 1-Part 3	1900	64	<a href="#">Link</a>
169	Multiple	Pend Oreille County-Book 1-Part 4	1900	72	<a href="#">Link</a>
170	Multiple	Pierce County	1900	65	<a href="#">Link</a>
171	M. T. Huntting	San Juan County	1947	2	<a href="#">Link</a>
172	Multiple	Skagit County-Book 1-Part 1	1900	64	<a href="#">Link</a>
173	Multiple	Skagit County-Book 1-Part 2	1900	56	<a href="#">Link</a>
174	Multiple	Skagit County-Book 1-Part 3	1900	62	<a href="#">Link</a>
175	Multiple	Skagit County-Book 1-Part 4	1900	82	<a href="#">Link</a>
176	Multiple	Skamania County	1900	101	<a href="#">Link</a>
177	Multiple	Sultan Basin-Part 1	1943	75	<a href="#">Link</a>
178	Multiple	Sultan Basin-Part 2	1943	84	<a href="#">Link</a>
179	Multiple	Sultan Basin-Part 3	1943	99	<a href="#">Link</a>
180	Multiple	Sultan Basin-Part 4	1943	91	<a href="#">Link</a>



<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
181	Multiple	Snohomish County-Part 1	1900	79	<a href="#">Link</a>
182	Multiple	Snohomish County-Part 2	1900	88	<a href="#">Link</a>
183	Multiple	Snohomish County-Part 3	1900	96	<a href="#">Link</a>
184	Multiple	Spokane County	1900	45	<a href="#">Link</a>
185	J. E. Schuster	Colville Area Field Notes	1971	215	<a href="#">Link</a>
186	J. E. Schuster	Lithologies From Colville Area Field Notes	1971	42	<a href="#">Link</a>
187	Multiple	W. P. A. Project No. 1190-668 Snohomish County-Book 2	1936	20	<a href="#">Link</a>
188	P. Crane	Geology of the Sultan Basin-Snohomish County	1928	45	<a href="#">Link</a>
189	D. J. Cogswell	W. P. A. Project No. 1190-668 Snohomish County-Book 1	1936	10	<a href="#">Link</a>
190	Multiple	Stevens County Book 1-Part 1	1900	86	<a href="#">Link</a>
191	Multiple	Stevens County Book 1-Part 2	1900	110	<a href="#">Link</a>
192	Multiple	Stevens County Book 1-Part 3	1900	112	<a href="#">Link</a>
193	Multiple	Stevens County Book 1-Part 4	1900	115	<a href="#">Link</a>
194	W. A. Bennett	Field Notes Stevens County-Part 1	1940	87	<a href="#">Link</a>
195	W. A. Bennett	Field Notes Stevens County-Part 2	1940	93	<a href="#">Link</a>
196	Multiple	Stevens County Mine Maps and Notes	1900	57	<a href="#">Link</a>
197	Multiple	Stevens County Book 2-Part 1	1900	88	<a href="#">Link</a>
198	Multiple	Stevens County Book 2-Part 2	1900	102	<a href="#">Link</a>
199	Multiple	Stevens County Book 2-Part 3	1900	100	<a href="#">Link</a>
200	Multiple	Stevens County Book 2-Part 4	1900	99	<a href="#">Link</a>
201	Multiple	Stevens County Book 2-Part 5	1900	100	<a href="#">Link</a>
202	Multiple	Stevens County Book 2-Part 6	1900	111	<a href="#">Link</a>
203	Multiple	Stevens County Book 3-Part 1	1900	128	<a href="#">Link</a>
204	Multiple	Stevens County Book 3-Part 2	1900	97	<a href="#">Link</a>
205	Multiple	Stevens County Book 3-Part 3	1900	110	<a href="#">Link</a>
206	Multiple	Stevens County Book 3-Part 4	1900	110	<a href="#">Link</a>
207	Multiple	Thurston County	1900	14	<a href="#">Link</a>
208	Multiple	Wahkiakum County	1900	9	<a href="#">Link</a>
209	W. A. Bennett	Walla Walla County	1930	5	<a href="#">Link</a>
210	Multiple	Whatcom County-Part 1	1900	113	<a href="#">Link</a>
211	Multiple	Whatcom County-Part 2	1900	114	<a href="#">Link</a>
212	Multiple	Whatcom County-Part 3	1900	113	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
213	Multiple	Whatcom County-Part 4	1900	100	<a href="#">Link</a>
214	Multiple	Whatcom County-Part 5	1900	82	<a href="#">Link</a>
215	Multiple	Whitman County	1930	21	<a href="#">Link</a>
216	Multiple	Yakima County-Part 1	1900	127	<a href="#">Link</a>
217	Multiple	Yakima County-Part 2	1900	114	<a href="#">Link</a>
218	Multiple	Yakima County-Part 3	1900	132	<a href="#">Link</a>
219	W. A. Bennett-Prucha	Dolomite	1945	65	<a href="#">Link</a>
220	M. T. Huntting	Coal Properties	1900	97	<a href="#">Link</a>
221	A. K. Guard	Limestone-Part 1	1943	110	<a href="#">Link</a>
222	A. K. Guard	Limestone-Part 2	1943	116	<a href="#">Link</a>
223	Multiple	Oil and Gas-Adams to Jefferson County-Part 1	1900	88	<a href="#">Link</a>
224	Multiple	Oil and Gas-Adams to Jefferson County-Part 2	1900	123	<a href="#">Link</a>
225	Multiple	Oil and Gas-Adams to Jefferson County-Part 3	1900	111	<a href="#">Link</a>
226	Multiple	Oil and Gas-King to Yakima County-Part 1	1900	110	<a href="#">Link</a>
227	Multiple	Oil and Gas-King to Yakima County-Part 2	1900	141	<a href="#">Link</a>
228	Multiple	Oil and Gas-King to Yakima County-Part 3	1900	143	<a href="#">Link</a>
229	Multiple	Peat-Part 1	1900	105	<a href="#">Link</a>
230	Multiple	Peat-Part 2	1900	109	<a href="#">Link</a>
231	Multiple	Peat-Part 3	1900	143	<a href="#">Link</a>
232	G. B. Rigg	Peat 1949-Part 1	1949	112	<a href="#">Link</a>
233	G. B. Rigg	Peat 1949-Part 2	1949	126	<a href="#">Link</a>
234	G. B. Rigg	Peat 1949-Part 3	1949	154	<a href="#">Link</a>
235	Unknown	Peat 1950-Part 1	1950	106	<a href="#">Link</a>
236	Unknown	Peat 1950-Part 2	1950	96	<a href="#">Link</a>
237	Unknown	Peat 1950-Part 3	1950	99	<a href="#">Link</a>
238	Unknown	Peat 1950-Part 4	1950	128	<a href="#">Link</a>
239	Unknown	Peat 1950-Part 5	1950	112	<a href="#">Link</a>
240	Unknown	Peat 1951-1953-Part 1	1951	102	<a href="#">Link</a>
241	Unknown	Peat 1951-1953-Part 2	1951	115	<a href="#">Link</a>
242	Multiple	Pumice and Pumicite-Part 1	1945	121	<a href="#">Link</a>
243	Multiple	Pumice and Pumicite-Part 2	1945	76	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
244	Multiple	Pumice and Pumicite-Part 3	1945	86	<a href="#">Link</a>
245	W. A. Bennett	Untitled Compilation Book 1	1900	100	<a href="#">Link</a>
246	Multiple	Untitled Compilation Book 2-Part 1	1900	151	<a href="#">Link</a>
247	Multiple	Untitled Compilation Book 2-Part 2	1900	114	<a href="#">Link</a>
248	Multiple	Untitled Compilation Book 2-Part 3	1900	127	<a href="#">Link</a>
249	R. L. Lupher	Hart's Pass	1935	46	<a href="#">Link</a>
250	Multiple	Untitled Compilation Book 3-Part 1	1900	80	<a href="#">Link</a>
251	Multiple	Untitled Compilation Book 3-Part 2	1900	77	<a href="#">Link</a>
252	Multiple	W. P. A. 7020-31-A Lockwood Pyrite	1937	12	<a href="#">Link</a>
253	K. Stoffel	Book 1- June1984 Through July 1986	1984	66	<a href="#">Link</a>
254	K. Stoffel	Book 2- August 1986 Through July 1987	1986	80	<a href="#">Link</a>
255	K. Stoffel	Book 3- July 1987 Through August 1989	1987	72	<a href="#">Link</a>
256	Multiple	Untitled Compilation Book 4-Part 1	1952	85	<a href="#">Link</a>
257	Multiple	Untitled Compilation Book 4-Part 2	1952	80	<a href="#">Link</a>
258	Multiple	Untitled Compilation Book 5	1900	68	<a href="#">Link</a>
259	Multiple	Untitled Compilation Book 6	1900	93	<a href="#">Link</a>
260	V. E. Livingston	Untitled Compilation Book 7	1900	44	<a href="#">Link</a>
261	Multiple	Untitled Compilation Book 8	1900	120	<a href="#">Link</a>
262	Multiple	Investigation of Tectonic Deformation in the Puget Lowland, WA	1977	143	<a href="#">Link</a>
263	Multiple	Coal	1975	54	<a href="#">Link</a>
264	E. Hougland	Metaline Quadrangle Investigation	1935	15	<a href="#">Link</a>
265	Unknown	Water Well Data	1900	20	<a href="#">Link</a>
266	Unknown	Notes Near Birch Bay	1900	6	<a href="#">Link</a>
267	R. L. Logan	State Geo Map 1984	1984	85	<a href="#">Link</a>
268	R. L. Logan	Notes on Landslides	1988	68	<a href="#">Link</a>
269	R. L. Logan	Notes 1991	1991	25	<a href="#">Link</a>
270	R. L. Logan	Notes 1992-1994	1992	33	<a href="#">Link</a>
271	R. L. Logan	Notes 1995-1997	1995	55	<a href="#">Link</a>
272	R. L. Logan	Notes 1997-1999	1997	65	<a href="#">Link</a>
273	R. L. Logan	Notes 1999-2000	1999	21	<a href="#">Link</a>
274	R. L. Logan	Notes 2000-2002	2000	45	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
275	R. L. Logan	Notes 2003-2004	2003	9	<a href="#">Link</a>
276	R. W. Galster	Priest Rapids	1954	125	<a href="#">Link</a>
277	G. W. Thorsen	Smith Creek Landslide	1983	40	<a href="#">Link</a>
278	G. W. Thorsen	Anderson Creek Landslide	1983	13	<a href="#">Link</a>
279	G. W. Thorsen	Austin Creek/Sudden Valley Landslides	1983	47	<a href="#">Link</a>
280	G. W. Thorsen	Mills, Thunder, Childs Creek Landslides	1983	46	<a href="#">Link</a>
281	G. W. Thorsen	Miscellaneous Landslide Notes	1983	20	<a href="#">Link</a>
282	B. Phillips	Bill Phillips Field Notes-Part 1	1980	77	<a href="#">Link</a>
283	B. Phillips	Bill Phillips Field Notes-Part 2	1983	73	<a href="#">Link</a>
284	K. Kaler	Phillips Assistant Field Notes 1985	1985	15	<a href="#">Link</a>
285	M. McClincy	Phillips Assistant Field Notes 1985	1985	15	<a href="#">Link</a>
286	R. L. Gresens	Wenatchee Notes 1973-1976	1973	80	<a href="#">Link</a>
287	R. L. Gresens	Wenatchee Notes 1978-1981	1978	66	<a href="#">Link</a>
288	Denman	Skagit and Whatcom Counties	1923	114	<a href="#">Link</a>
289	R. J. Carson	Field Notes 1972-74 Photocopies	1972	43	<a href="#">Link</a>
290	R. J. Carson	Field Notes 1972-Part 1	1972	98	<a href="#">Link</a>
291	R. J. Carson	Field Notes 1972-Part 2	1972	108	<a href="#">Link</a>
292	R. J. Carson	Field Notes 1973	1973	130	<a href="#">Link</a>
293	R. J. Carson	Field Trip No.1	1967	24	<a href="#">Link</a>
294	R. J. Carson	Field Trip No.2	1967	24	<a href="#">Link</a>
295	R. J. Carson	Notebook No.3 June 5, 1968 to July 12,1968	1968	25	<a href="#">Link</a>
296	R. J. Carson	Notebook No.4 July 13, 1968 to July 19, 1968	1968	25	<a href="#">Link</a>
297	R. J. Carson	Notebook No.5 July 23, 1968 to August 3, 1968	1968	25	<a href="#">Link</a>
298	R. J. Carson	Notebook No.6 August 4, 1968 to August 26, 1968	1968	24	<a href="#">Link</a>
299	R. J. Carson	Notebook No.7 August 29, 1968 to September 11,1968	1968	25	<a href="#">Link</a>
300	R. J. Carson	Notebook No.8 September 12, 1968 to July 5, 1969	1968	24	<a href="#">Link</a>
301	R. J. Carson	Notebook No.9 Field Trips	1968	22	<a href="#">Link</a>
302	R. J. Carson	Notebook No.10 Conferences	1969	24	<a href="#">Link</a>
303	R. J. Carson	Notebook No.11 July 5, 1969 to July 14, 1969	1969	25	<a href="#">Link</a>
304	R. J. Carson	Notebook No.12 July 14, 1969 to July 28, 1969	1969	25	<a href="#">Link</a>
305	R. J. Carson	Notebook No.13 July 28, 1969 to August 8, 1969	1969	26	<a href="#">Link</a>
306	R. J. Carson	Notebook No.14 August 6, 1969 to August 20, 1969	1969	25	<a href="#">Link</a>

Book Number	Author(s)	Title	Year	Number of Pages	PDF Link
307	R. J. Carson	Notebook No.15 August 21, 1969 to September 6, 1969	1969	25	<a href="#">Link</a>
308	R. J. Carson	Notebook No.16 September 6, 1969 to September 23, 1969	1969	26	<a href="#">Link</a>
309	R. J. Carson	Notebook No.17 September 23, 1969 to February 1, 1970	1969	24	<a href="#">Link</a>
310	R. J. Carson	Notebook No.18 September 11, 1970 and On	1970	22	<a href="#">Link</a>
311	R. J. Carson	1996-1997 Walla Walla Area	1996	24	<a href="#">Link</a>
312	R. J. Carson	1996-2003 Touchet Area, Walla Walla Erratics, Monumental Dam, Ice Harbor Dam	1993	22	<a href="#">Link</a>
313	R. J. Carson	1996-1997 Mt. Hood, San Juan Islands, Lower Monumental Dam	1996	25	<a href="#">Link</a>
314	R. J. Carson	1997-Mt. Ellinor, Bear Creek Mountain, Lower Hell's Canyon, Hanford Reach	1997	19	<a href="#">Link</a>
315	R. J. Carson	1997-2003 Yakima Valley, NE WA, Steamboat Rock, Walla Walla	1997	26	<a href="#">Link</a>
316	R. J. Carson	1998-Yakima Canyon, Pinnacle Pass, Diamond Peak, Puffer Butte	1998	17	<a href="#">Link</a>
317	R. J. Carson	2001-2003 Walla Walla Watershed Assessment	2001	23	<a href="#">Link</a>
318	R. J. Carson	1987-2006 NE OR to SE WA	1987	63	<a href="#">Link</a>
319	R. J. Carson	1999-2007 NE OR to SE WA	1999	62	<a href="#">Link</a>
320	R. J. Carson	2005-Olympic Mountains	2005	29	<a href="#">Link</a>
321	R. J. Carson	1974-75 Hood Canal and Olympic Peninsula-Part 1	1974	100	<a href="#">Link</a>
322	R. J. Carson	1974-75 Hood Canal and Olympic Peninsula-Part 2	1974	120	<a href="#">Link</a>
323	R. J. Carson	Multiple Quad Notes	1978	43	<a href="#">Link</a>
324	R. J. Carson	Belfair, Hansville, Holly	1900	49	<a href="#">Link</a>
325	R. J. Carson	Lofall, Port Gamble	1900	53	<a href="#">Link</a>
326	R. J. Carson	Poulsbo	1900	63	<a href="#">Link</a>
327	R. J. Carson	Seabeck, Suquamish	1900	29	<a href="#">Link</a>
328	R. D. Bentley	1985 Field Notes	1985	41	<a href="#">Link</a>
329	K. A. Brunstad	Fifes Peak Volcano/Caldera	1991	59	<a href="#">Link</a>
330	J. D. Vine	King County Coal Project 1961	1961	49	<a href="#">Link</a>
331	J. D. Vine	King County Coal Project Hobart and Maple Valley Quadrangles 1959-1960	1959	95	<a href="#">Link</a>
332	P. J. Pattee	Field Notes to Assist J. D. Vine, King County	1959	41	<a href="#">Link</a>
333	Merritt	Field Notes From Ferry County	1911	24	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
334	Hammer	Notes 1909	1909	16	<a href="#">Link</a>
335	Unknown	Notes 1901	1901	19	<a href="#">Link</a>
336	S. Shedd	East Slope Cascades	1900	25	<a href="#">Link</a>
337	A. K. Guard	San Juan County, Orcas Island	1943	24	<a href="#">Link</a>
338	A. K. Guard	Limestone Occurrences, multiple Counties	1943	12	<a href="#">Link</a>
339	A. K. Guard	Lime, Marble, and Cement	1900	47	<a href="#">Link</a>
340	J. W. Mills	Mineral Resources Stevens County-1967	1967	31	<a href="#">Link</a>
341	J. W. Mills	Stevens County Notes-Summer 1968	1968	9	<a href="#">Link</a>
342	Unknown	Lime 1909	1909	9	<a href="#">Link</a>
343	J. W. Mills	Summer Notes 1963	1963	64	<a href="#">Link</a>
344	J. W. Mills	Summer Notes 1964	1964	51	<a href="#">Link</a>
345	J. W. Mills	Limestone Resources 1959	1959	23	<a href="#">Link</a>
346	J. W. Mills	Kettle Falls Quadrangle 1960	1960	29	<a href="#">Link</a>
347	J. W. Mills	Kettle Falls Quadrangle 1961	1961	14	<a href="#">Link</a>
348	J. W. Mills	Kettle Falls Quadrangle 1962	1962	59	<a href="#">Link</a>
349	J. W. Mills	Kettle Falls Quadrangle 1959	1959	15	<a href="#">Link</a>
350	K. Kaler	SW Quad, Mount St. Helens	1985	62	<a href="#">Link</a>
351	N. L. Joseph	Aeneas Quad	1985	156	<a href="#">Link</a>
352	Unknown	Iron Investigation-1899	1900	10	<a href="#">Link</a>
353	Unknown	Coal-1900	1900	13	<a href="#">Link</a>
354	H. Schasse	Puget Group Roadcut	1981	8	<a href="#">Link</a>
355	R. Rau	Winthrop Sandstone	1985	55	<a href="#">Link</a>
356	G. M. Valentine	Taholah Quadrangle	1986	22	<a href="#">Link</a>
357	G. M. Valentine	Buttermilk Butte	1983	11	<a href="#">Link</a>
358	G. M. Valentine	Cashmere Quad	1982	15	<a href="#">Link</a>
359	G. M. Valentine	Chumstick Mountain Quad	1982	23	<a href="#">Link</a>
360	G. M. Valentine	Cle Elum Quad	1982	16	<a href="#">Link</a>
361	G. M. Valentine	Doe Mountain Quad	1983	6	<a href="#">Link</a>
362	G. M. Valentine	Easton Quad	1983	12	<a href="#">Link</a>
363	G. M. Valentine	Entiat Quad	1983	1	<a href="#">Link</a>
364	G. M. Valentine	Kachess Lake Quad	1982	2	<a href="#">Link</a>
365	G. M. Valentine	Leavenworth Quad	1982	47	<a href="#">Link</a>

<b>Book Number</b>	<b>Author(s)</b>	<b>Title</b>	<b>Year</b>	<b>Number of Pages</b>	<b>PDF Link</b>
366	G. M. Valentine	Eagle Creek Section-Leavenworth Quad	1982	31	<a href="#">Link</a>
367	G. M. Valentine	Liberty Quad	1986	5	<a href="#">Link</a>
368	G. M. Valentine	Mazama Quad	1983	8	<a href="#">Link</a>
369	G. M. Valentine	Mission Peak and Wenatchee Heights Quads	1983	13	<a href="#">Link</a>
370	G. M. Valentine	Monitor Quad	1982	16	<a href="#">Link</a>
371	G. M. Valentine	Mount Rainier	1983	9	<a href="#">Link</a>
372	G. M. Valentine	Mount Stewart Quad	1982	37	<a href="#">Link</a>
373	G. M. Valentine	Plain Quad	1982	9	<a href="#">Link</a>
374	G. M. Valentine	Skykomish Quad	1982	3	<a href="#">Link</a>
375	G. M. Valentine	Slate Peak Quad	1983	3	<a href="#">Link</a>
376	G. M. Valentine	Thorp Quad	1982	10	<a href="#">Link</a>
377	G. M. Valentine	Twisp Quad	1983	7	<a href="#">Link</a>
378	G. M. Valentine	Wenatchee Quad	1982	61	<a href="#">Link</a>
379	G. M. Valentine	Wenatchee Heights Quad	1982	14	<a href="#">Link</a>
380	G. M. Valentine	Pitcher Syncline-Wenatchee Quad	1982	19	<a href="#">Link</a>
381	G. M. Valentine	Yakima Quad	1981	3	<a href="#">Link</a>
382	G. M. Valentine	Liberty Quad-Blewett Pass Highway	1982	65	<a href="#">Link</a>
383	H. Schasse	Morse Creek Quad	2000	131	<a href="#">Link</a>
384	M. Polenz	Morse Creek Quad	2000	45	<a href="#">Link</a>
385	K. Wegmann	Carlsborg Quad	1999	47	<a href="#">Link</a>
386	H. Schasse	Carlsborg Quad	1999	97	<a href="#">Link</a>

# Appendix A: The Culver System

The Culver System is a gridded method of specifying a geographic location. The system conveys a lot of information in a compact code, but it is difficult to use because the code can't be translated back into a conventional township, range, section (TRS) location without the appropriate county township index map. By removing the need for an index, the Modified Culver System overcame this difficulty. [Link to index maps](#)

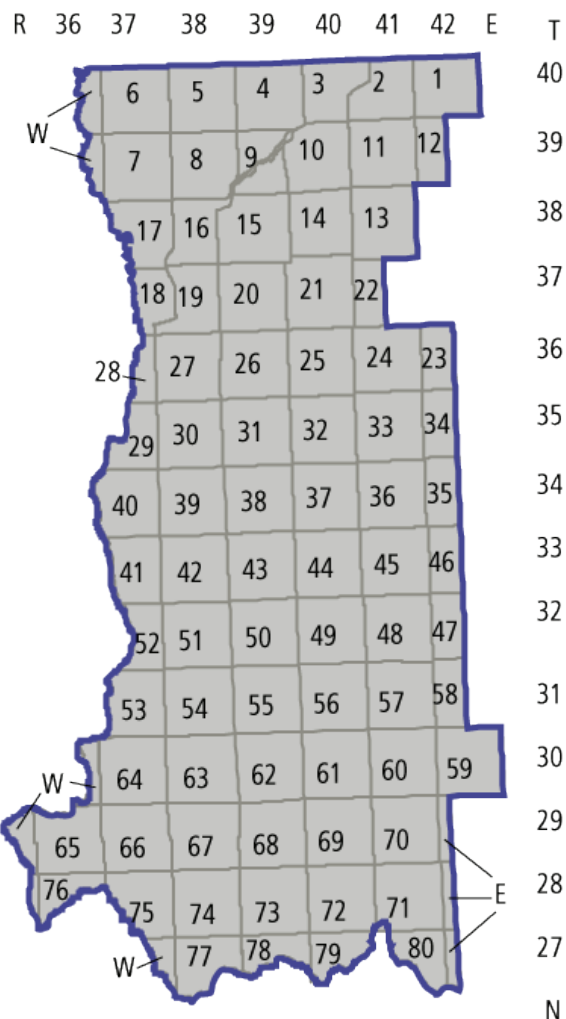
## THE CULVER SYSTEM

The Culver System provides a detailed location code (for example, S2101.39), which is broken down into parts, as shown over the next few pages. Figure A1 shows how Culver System codes relate to the TRS System.

### Part 1—County

Each county was assigned a one or two letter code. These codes are shown in the table at the right. In this case the code refers to Steven's County (shown in detail below).

S2101.39



**Figure A1.** Stevens County showing township and range number on the axes and Culver System numbers on the interior. Each county was renumbered in this manner, with an index document needed in order to determine where each point was located.

Adams	A
Asotin	An
Benton	B
Chelan	Cn
Clallam	Cm
Clark	Ck
Columbia	Ca
Cowlitz	C
Douglas	D
Ferry	F
Franklin	Fn
Garfield	G
Grant	Gt
Grays Harbor	Gh
Island	I
Jefferson	J
King	K
Kitsap	Kp
Kittitas	Ks
Klickitat	Kt
Lewis	L
Lincoln	Ln
Mason	M
Okanogan	Ok
Pacific	Pf
Pend Oreille	P
Pierce	Pe
San Juan	SJ
Skagit	St
Skamania	Sa
Snohomish	Sh
Spokane	Se
Stevens	S
Thurston	T
Wahkiakum	Wm
Walla Walla	Ww
Whatcom	W
Whitman	Wn
Yakima	Y

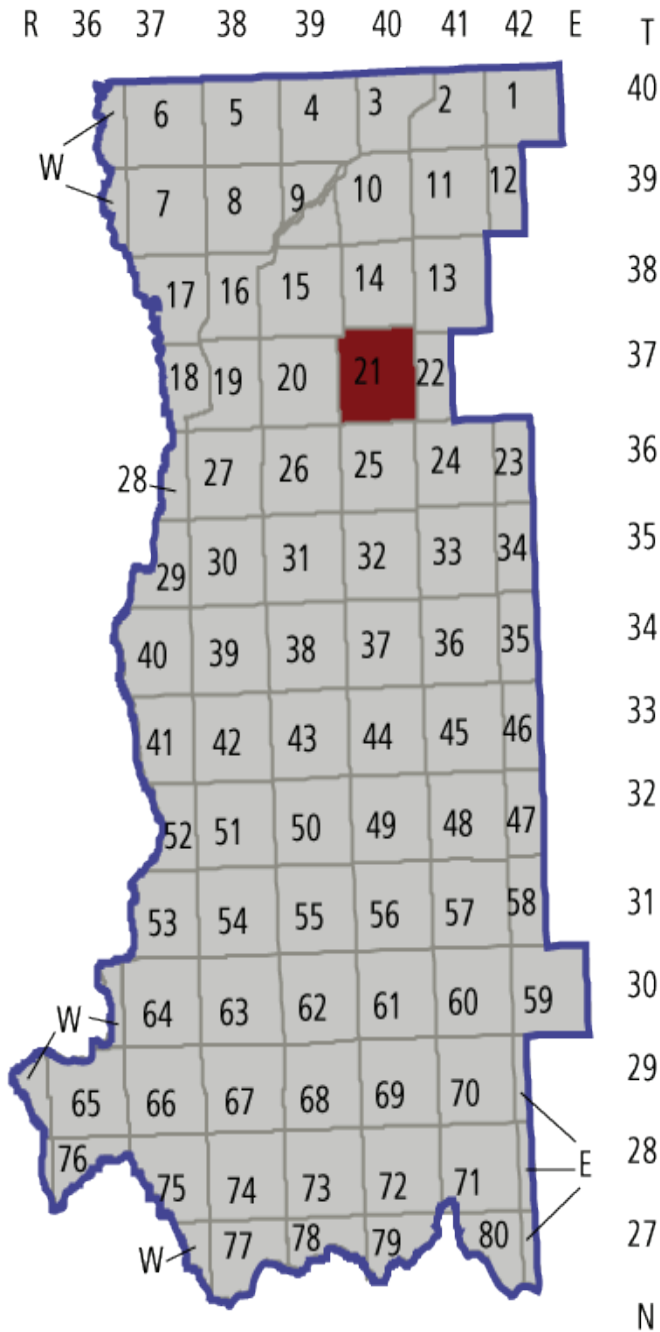
**Table A1.** County codes used in the Culver System.



## Part 2— Township Numbers According to Culver System

Within each county, townships were numbered in a manner similar to sections within a township (1-99+). Not every partial township got a number. Instead, some were labeled with E, W, N, or S.

S 21 01.39



**Figure A2.** Index map of Steven's County, showing the grid cell referred to in the Culver code. A collection of index maps such as these are needed in order to locate a point using the Culver System.

## Part 3— Section Number

This two-digit number indicates the section standard to the TRS system.

S21 01.39



**Figure A3.** Gridded sub-units of a Culver township.

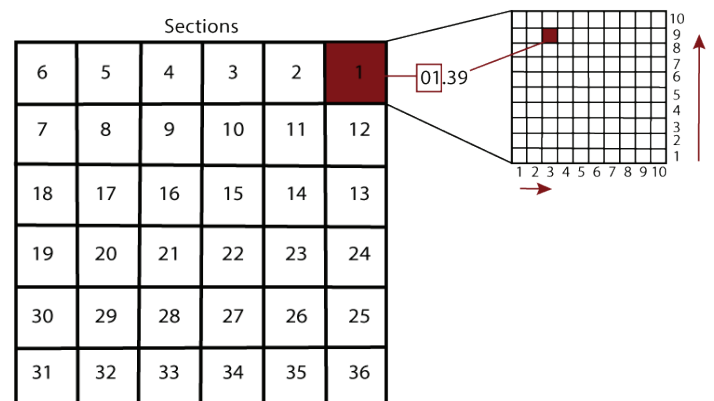
## Part 4—Location Within Section

The final two-digit number after the decimal point indicates the location within a section, broken down as follows:

1. The section is divided into a 10x10 grid, north-south and east-west. Each grid cell represents approximately 500 ft.
2. Starting at the southwest corner, effectively 0,0, the section is labeled 0-9 in both directions
3. Code .39 would be located as 3 squares to the right of 0, and 9 squares north of the 3.

Blocks 1 through 36 represent an unaltered division of a township into sections. Section 1 is shown further broken down by the Culver System to find a specific location without using the standard quarter or quarter quarter section descriptions that are typical elsewhere.

S2101 .39



**Figure A4.** Further subdivision of Culver sections.

## THE MODIFIED CULVER SYSTEM

The Modified Culver System uses the TRS system to indicate roughly where the location is, but uses the standard Culver System numbering to pinpoint the exact location. Here is an example for how Culver System location code S2101.39 would be represented using the Modified Culver System. As shown below, the corresponding Modified Culver System location code 3740E01.39 returns to using the TRS with the added precision of the Culver System subsection code.

### Part 1—County

No county is identified in the modified system. Omit the county.

3740E01.39

### Part 2—Township Number

Use the actual township number.

37 40E01.39

Use the range number indicating E or W. Note: No N or S direction is indicated because all townships are north of the Willamette base line and therefore assume N.

37 40E 01.39

### Part 3—Section Number

Same as in the Culver System.

3740E 01.39

### Part 4—Location Within Section

Same as in the Culver System.

3740E01 .39

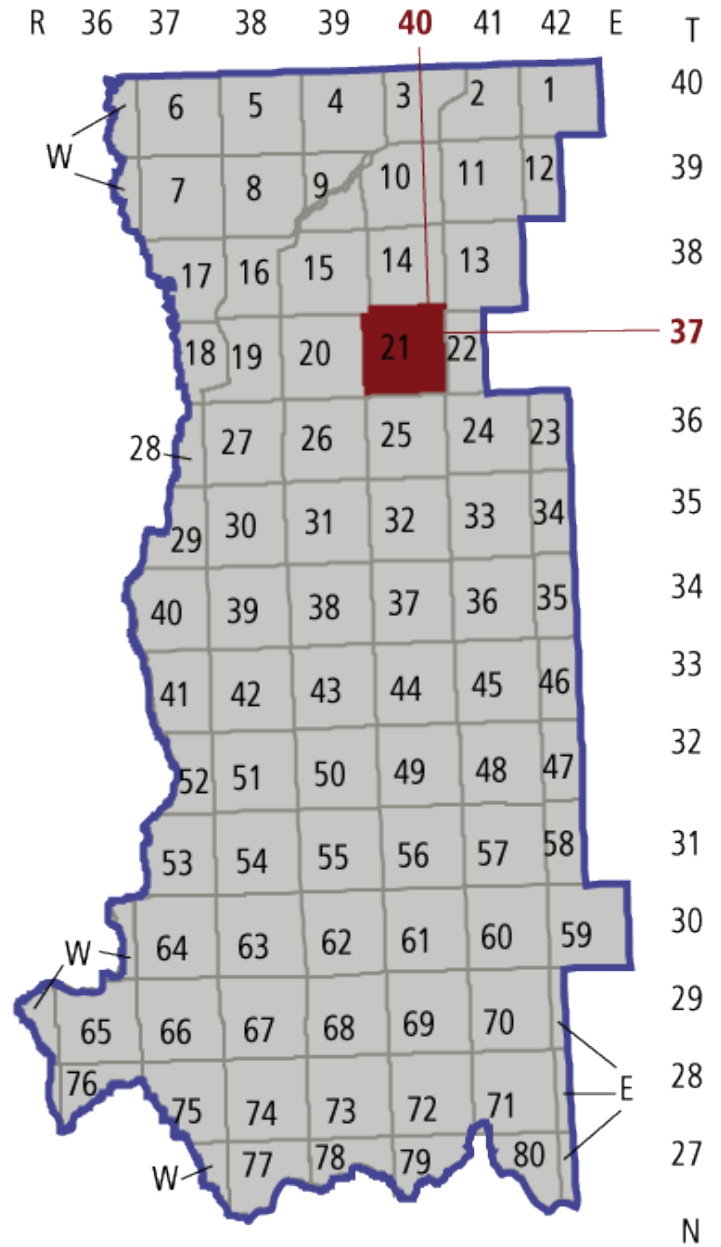


Figure A5. Index map of Steven's County, showing how the TRS system of numbering can also be used to pinpoint a township within the Modified Culver System.

## GOOD TO KNOW

1. Not all sections and townships are squares. Locations were approximated based on a grid.
2. Transparent templates were historically created to overlay paper maps at different scales. This allowed the Culver System to be accurately implemented on different scale paper maps.
3. Many sections and townships have been redrawn over the years. Many of these locations that no longer exist on a map can be approximated using the traditional TRS grid or by tracing lines from nearby counties whose lines have not been altered (as shown below).

**Figure A6.** Dashed lines showing template guide lines. A user would overlay guide lines to an altered section to produce an accurate location from historical notes.

