

Index to Isochron/West: volumes 1 (January 1971) to 15 (April 1976)

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Isochron/West, Bulletin of Isotopic Geochronology, v. 17, pp. 1

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Isochron/West was published at irregular intervals from 1971 to 1996. The journal was patterned after the journal *Radiocarbon* and covered isotopic age-dating (except carbon-14) on rocks and minerals from the Western Hemisphere. Initially, the geographic scope of papers was restricted to the western half of the United States, but was later expanded. The journal was sponsored and staffed by the New Mexico Bureau of Mines (now *Geology*) & Mineral Resources and the Nevada Bureau of Mines & Geology.



ISOCHRON/WEST
A Bulletin of Isotopic Geochronology

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INDEX TO ISOCHRON/WEST

Volumes 1 (January 1971) to 15 (April 1976)

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This index lists data on more than 3000 age determinations made on more than 2000 samples from 17 states and Canada and Mexico, published in the first 15 issues of Isochron/West.

Information is indexed under eight categories:

1. *Authors* who contributed. Age determination data were contributed by 83 authors.
2. *Analytical methods*. Many samples were analyzed by more than one method. Potassium-argon (K/Ar) was by far the preponderant method used, so many that they are not indexed. The approximate number of analyses for each method used was:

K/Ar	2523 (by subtraction)	Sr/Sr	96
Rb/Sr	146	U/Pb	95
Pb alpha	106	Pb/Pb	54
Fission track	99	Th/Pb	7

3. *Location* by foreign country, state and county. The location of each sample is indexed alphabetically by country or state, and by county under each state.
4. *Geologic units* mentioned, with age determination. The names of 492 formations, plutons, batholiths, and stocks were cited; these are listed alphabetically by state, and the analytic mean age of the unit is given.
5. *Periods and Epochs* given by the determinations. Each sample analyzed is listed under Epochs (for the Cenozoic) and Periods (for the pre-Cenozoic) in which the date falls. When analytical uncertainty overlaps a time boundary, the date is included in *both* time intervals.
6. *Rock types* analyzed. Eighty-two different types of rocks were analyzed; they are indexed under six categories, as follows:

A. Volcanic (26 names)	D. Metamorphic (11 names)
B. Intrusive (41 names)	E. Mineralization
C. Sedimentary (4 names)	F. Veins

Synonymous names are given, but are cross-referenced to the most commonly used name. Under Volcanic rocks, rhyolitic lavas are indexed separately from rhyolitic pyroclastics. Some intrusive rhyolites are listed under Intrusive rocks.

7. *Minerals* analyzed. Forty-eight different minerals were used in the analyses. The frequency of those that were used more than 10 times is given below. The first ten minerals on the list account for over 90 percent of the analyses. Since many minerals were used more than once in a given sample, the number exceeds the total number of samples analyzed.

biotite	882	glass	65	carnotite	20
whole rock	552	apatite	39	feldspar (undiff.)	20
sanidine	246	K-feldspar	36	orthoclase	15
hornblende	220	adularia	26	pitchblende	14
zircon	195	chlorite	25	sericite	12
plagioclase	121	sphene	24	<u>30 others</u>	<u>84</u>
muscovite	91			total analyses	2687

8. *Miscellaneous* references, including bibliographies. This category includes references to 55 bibliographies, 31 locality maps, 14 geological maps, 52 geologic discussions, 6 histograms of ages, 7 isochrons, and analytical methods, standards, etc.

In a compilation of this type, there are bound to be, in spite of checking and rechecking, some errors and discrepancies. Hopefully the user will find the index of value despite these inevitable errors.

AUTHORS

Index style: *volume:page number*

- Alba, L.A., 10:21
 Armstrong, R.L., 1:2, 3:23, 5:7, 13:5, 14:1, 15:1
 Ashley, R.P., 8:25
 Bachman, G.O., 13:3
 Baker, Arthur, III, 6:35
 Bingler, E.C., 3:31
 Birkman, Michael, 3:9
 Boellstorff, John, 8:39
 Bonham, H.F., Jr., 4:5, 13:13
 Brookins, D.G., 8:21, 10:11, 10:15, 12:1, 12:5, 12:9, 12:11
 Chapin, C.E., 2:43
 Chavez, Rafael, 10:21
 Chesterman, C.W., 3:13
 Clark, John, 7:11
 Clayton, R.L., 6:35
 Coats, R.R., 13:11
 Cressy, F.B., Jr., 7:13
 Dalrymple, G.B., 15:35
 Damon, P.E., 10:7
 Dick, Henry, 3:23
 Edwards, George, 3:1
 Enz, R.D., 12:11
 Field, C.W., 5:13, 7:17
 Garside, L.J., 4:5, 7:5, 13:13
 Goddard, B.B., 13:1
 Hales, P.O., 13:5
 Hammond, P.E., 9:1
 Harrold, J.L., 5:1
 Hendrickson, T.A., 5:13
 Hussey, K.M., 2:45
 Johnson, M.G., 8:1, 31
 Johnson, W.P., 3:30, 4:29
 Jones, M.B., 7:17
 Koski, R.A., 8:31, 13:1
 Krueger, H.W., 1:9
 Kudo, A.M., 12:11
 Lanphere, M.A., 2:17
 Laursen, J.M., 9:1
 Lipman, P.W., 6:31
 MacLeod, N.S., 15:37
 Mangum, John, 7:1
 Marvin, R.F., 2:21, 6:1, 7:1, 10:1, 17, 11:1, 13:3
 McDowell, F.W., 2:1, 7:11
 McKee, E.H., 1:15, 2:21, 4:7, 5:17, 6:1, 7:3, 10:1, 13:11, 15:37
 McLaughlin, W.A., 3:1
 Mehnert, H.H., 6:1, 31, 7:1, 10:17, 11:1, 13:3
 Merritt, V.L., 10:17, 13:3
 Moore, R.B., 12:1
 Naeser, C.W., 11:1
 Niem, A.R., 7:13
 Noble, D.C., 5:17, 7:3
 Obradovich, J.D., 2:21, 10:15
 Osborne, D.H., 13:13
 Pansze, A.J., 4:1
 Parker, D.J., 5:7, 13:5
 Puskar, Paul, 10:7
 Roberts, R.J., 8:31
 Schassberger, H.T., 3:29, 4:31
 Schilling, J.H., 1:9, 2:45
 Schmuck, R.A., 7:17
 Schweickert, R.A., 7:3
 Shafiqullah, M., 12:9, 12:11
 Shawe, D.R., 13:1
 Shell Exploration and Production Research Center, 6:37
 Silberman, M.L., 1:15, 2:21, 3:13, 4:5, 4:7, 7:5, 8:31, 37, 13:1, 13
 Skurla, S.J., 5:13
 Smith, T.E., 2:17, 7:21
 Speed, R.C., 1:2
 Steven, R.A., 6:31
 Taggart, J.E., 12:5
 Taylor, E.M., 13:5
 Tingley, J.V., 12:3
 Todd, V.R., 8:1
 Trauger, F.D., 7:7
 Tshanz, C.M., 7:1
 Turner, D.L., 7:21
 Vitaliano, C.J., 3:23
 Walker, G.W., 15:37
 Weber, R.H., 1:33
 Weir, K.L., 10:17
 Wells, J.D., 8:37
 Willard, M.E., 2:47
 Wilson, J.A., 7:11
 Young, E.J., 11:1

ANALYTICAL METHODS

(other than K-Ar)

Index style: *volume page number:sample description number*

Volume 9: Roman numerals used for division in article and necessary for sample description location

Analytical methods (descriptions):

- vol. 1 1, 9, 15, 33, 36
 vol. 2 1, 17-18, 21, 43, 45, 46, 47
 vol. 3 1, 9, 13, 23, 29, 30, 31
 vol. 4 1, 5, 29, 31
 vol. 5 1, 7, 13
 vol. 6 1, 31
 vol. 7 4, 11, 13, 17, 21
 vol. 8 21, 26, 31, 37
 vol. 10 7, 11, 15, 17, 21
 vol. 11 1
 vol. 12 1, 5, 9, 11
 vol. 13 1, 5, 11
 vol. 14 2
 vol. 15 12, 14, 17, 35, 37

Fission track:

- vol. 2 24:3; 25:7; 28:35B, 37, 38; 29:41, 48; 30:49; 31:58, 59
 vol. 8 28:1-7; 29:8; 40:1-5; 41:6-11
 vol. 9 11:17; 14:36, 38, 41, 42, 43; 15:44-47, 49; 16:54; 19:10; (IVc) 1-3
 vol. 10 5:26; 14:15, 16

- vol. 11 8:41, 42, 43; 9:46, 48-51, 53; 10:54, 56, 61; 11:64, 67; 12:78; 13:81-86; 14:88; 16:104; 20:132, 133, 137; 28:202, 208; 30:221; 31:228; 32:239, 241; 33:243-246
 vol. 14 49:2, 23-26
 vol. 15 3:24, 4:25-29

Lead alpha

- vol. 8 9:79; 10:2, 5, 8; 11:22; 12:26, 27, 29, 30; 13:34, 35, 36, 38-42, 44; 14:47, 48, 50; 15:59, 60, 61, 64, 66, 67; 16:70, 71, 73; 17:81
 vol. 9 11:17, 19a, 19b, 21a; 12:21b, 24ab, 25, 27ab; 13:28ab, 29ab; 14:40ab, 42, 43; 18:74, 75, 76, IVb4; 20:5; 22:6ab, 7ab, 8ab; 26:4, 5
 vol. 11 15:99, 102; 21:143; 22:148, 149; 23:158, 159, 161; 24:163; 25:175; 26:188
 vol. 14 30:1, 2; 31:3-8; 46:1, 2; 47:3-10; 48:11-19; 49:21, 22
 vol. 15 3:23; 8:1-3; 9:6; 11:2

Lead-lead

- vol. 6 35:1
 vol. 9 9:(III) 1, 2, (IVa) 1-4; 10:5, 7-11; 11:15, 20; 12:22, 23, 26; 13:32; 14:37; 16:52

vol. 10 13:4-11; 14:12, 13
 vol. 11 33:250; 34:251-255; 35:256-263
 vol. 14 31:9; 44:1, 2; 45:3-7; 46:8, 9

Potassium-argon – too numerous to include.

Strontium-rubidium (see rubidium-strontium)

Thorium-lead

vol. 10 13:4, 5, 6, 9, 10
 vol. 14 44:4
 vol. 15 11:1

Uranium-lead

vol. 8 9:80, 81
 vol. 9 9:(III) 1, 2, (IVa) 1-4; 10:5, 7-12; 11:15, 16, 20;
 12:22, 23, 26; 13:32, 33; 14:37; 16:52
 vol. 10 13:4-11; 14:12, 13
 vol. 11 33:250; 34:251-255; 35:256-263; 36:264-270; 37:271-
 277; 38:278-284; 39:285-287

vol. 14 31:9; 44:1, 2; 45:3-7; 46:8, 9
 vol. 15 7:7-11; 10:7-11; 11:12, 1

Rubidium-strontium

vol. 3 3:8; 4:11, 12; 5:17, 19
 vol. 5 9:1, 5; 10:9; 11:17, 18, 19
 vol. 8 3:12; 6:53; 7:56, 59; 10:3, 6, 7; 15:61; 16:80; 17:89
 vol. 9 13:34; 14:48; 17:66, 68
 vol. 10 10:5-8; 12:1, 2, 3; 16:3, 4
 vol. 11 12:77; 15:96, 103; 16:105, 106; 30:222
 vol. 12 5:A-J; 11:4, 5
 vol. 14 27:12; 28:14, 17; 36:26, 27, 28; 37:29, 32; 38:34, 35;
 39:40, 43; 40:44, 47; 41:48, 50, 52; 42:55; 43:58, 61
 vol. 15 6:45, 4; 8:11, 12; 9:1; 11:4; 17:1, 2; 19:3-6; 21:15, 1;
 23:1; 24:2-4; 25:13, 14; 26:15, 16, 1; 27:2-6; 28:2; 29:3, 4;
 30:14

LOCATION

Index style: *volume page number:sample description number*

Volume 9: Roman numerals used for division in article and necessary for sample description location

Alaska

vol. 2 19:1, 2, 3; 20:4
 vol. 7 24:1-4; 25:5

Arizona

Cochise County
 vol. 8 8:66, 71; 9:80-85; 16:79, 80; 17:81-89

Coconino County
 vol. 12 1:1-8; 2:8-15

Gila County
 vol. 2 2:3

Graham County
 vol. 8 9:79

Greenlee County
 vol. 2 2:4, 5

Pima County
 vol. 2 1:1; 2:2
 vol. 8 2:4-9; 3:9a-20; 4:21-30; 5:31-43; 6:44-46; 7:57-65;
 8:67-70; 10:1-10; 11:11-23; 14:53-56; 15:57-64, 68, 69;
 16:70-74

Pinal County
 vol. 2 2:3A
 vol. 4 29:1-4
 vol. 8 2:1-3; 6:47-53; 7:54, 55, 56; 8:72-75; 9:76, 77, 78
 vol. 10 9:2, 3; 10:4-8

Santa Cruz County
 vol. 8 12:24-32; 13:33-45; 14:46-52; 15:65, 66, 67; 16:75-78

Yavapai County
 vol. 6 35:1
 vol. 10 9:1

California

Mariposa County
 vol. 3 1:1

Mono County
 vol. 3 17:1-4; 18:5-8; 19:9-14; 20:15-20; 21:21, 22, 23

San Diego County
 vol. 15 35:1-3; 36:4, 5

Canada

British Columbia
 vol. 7 19:1, 2, 3; 20:4, 5

Colorado

Alamosa County
 vol. 11 31:230-233

Archeluta County
 vol. 11 23:160, 161, 162; 24:163, 164

Boulder County
 vol. 2 3:12
 vol. 11 10:60, 61, 62; 11:63-70; 12:71, 72

Chaffee County
 vol. 2 4:14
 vol. 11 27:194-199; 28:200, 201, 202

Clear Creek County
 vol. 3 29:3
 vol. 11 12:77, 78; 13:79-86; 14:87

Conejos County
 vol. 11 24:165-172; 25:173-179

Custer County
 vol. 11 30:220-225; 31:226-229

Dolores County
 vol. 11 20:131-134

Douglas County
 vol. 11 28:207

Eagle County
 vol. 11 6:24, 25, 26; 7:27-36; 8:37-40

Fremont County
 vol. 11 29:214-217; 30:218, 219

Garfield County
 vol. 11 5:10-17; 6:18-22

Gilpin County
 vol. 11 35:256-263

Grand County
 vol. 11 8:43, 44, 45; 9:46-53; 10:54

Gunnison County
 vol. 11 17:115-118; 18:119, 120, 121

Hinsdale County
 vol. 6 31:1; 33:2, 3
 vol. 11 21:141-146; 22:147, 148

Huerfano County
 vol. 11 32:234-241; 33:242

Colorado (cont.)

- Jackson County**
vol. 11 10:55-58
- Jefferson County**
vol. 11 12:73-76; 34:254, 255
- Kremmling County**
vol. 11 8:41, 42
- Lake County**
vol. 2 4:15
vol. 3 29:1
vol. 11 15:97-103; 16:104-106
- La Plata County**
vol. 2 3:9
vol. 11 20:136
- Larimer County**
vol. 11 10:59; 33:250; 34:251, 252, 253
- Las Animas County**
vol. 11 33:243-247
- Mesa County**
vol. 11 6:23; 36:264-267
- Mineral County**
vol. 11 22:149-154; 23:155, 156, 157
- Moffat County**
vol. 11 3:1, 2
- Montezuma County**
vol. 11 20:135
- Montrose County**
vol. 11 18:122, 123; 19:124, 125; 36:268, 269, 270; 37:271-277; 38:278-281
- Ouray County**
vol. 11 19:126-129
- Park County**
vol. 11 28:203-206
- Pitkin County**
vol. 11 16:107-110; 17:111-114
- Rio Grande County**
vol. 11 25:180, 181; 26:182-187
- Routt County**
vol. 2 3:11
vol. 11 4:3-9
- Saguache County**
vol. 11 26:188, 189, 190; 27:191, 192, 193
- San Juan County**
vol. 2 2:6; 3:7
vol. 11 20:137; 21:138, 139, 140
- San Miguel County**
vol. 2 3:8
vol. 11 19:130; 38:282, 283, 284; 39:285, 286, 287
- Summit County**
vol. 2 3:13
vol. 11 14:88-94; 15:95, 96
- Teller County**
vol. 2 3:10
vol. 11 28:208; 29:209-213
- Idaho**
- Ada County**
vol. 14 41:52; 52:54
- Adams County**
vol. 14 23:1; 36:27; 39:40-43; 40:44, 45, 47; 41:48-51; 44:2
- Bannock County**
vol. 14 16:11; 20:43
vol. 15 4:30; 8:2
- Benewah County**
vol. 14 21:1
- Bingham County**
vol. 14 16:14, 15; 17:18; 18:26, 34; 19:35; 20:46-49, 51; 21:54, 55; 23:2

Blaine County

- vol. 14 10:3; 11:13; 26:2; 47:3
vol. 15 2:6-8
- Boise County**
vol. 14 23:10; 29:19, 20; 30:7; 31:6; 41:52; 46:1, 2; 47:7, 8; 48:12, 16; 50:7
- Bonner County**
vol. 14 27:6, 7; 35:18, 19; 46:9; 50:8
vol. 15 3:16, 17; 6:2, 3; 10:8
- Bonneville County**
vol. 14 16:16; 17:20, 21
- Boundary County**
vol. 15 6:4; 7:10, 11
- Box Elder County**
vol. 15 17:2
- Butte County**
vol. 14 14:1; 15:2; 16:12, 13; 20:45, 50, 52, 53; 21:57, 58, 59; 26:5; 30:5; 31:4; 50:1
vol. 15 8:1
- Camas County**
vol. 2 6:25
vol. 14 49:1
- Caribou County**
vol. 14 15:3, 4, 5, 6, 8, 9
- Cassia County**
vol. 2 4:17
vol. 14 17:19; 18:29-33; 19:36-39
vol. 15 17:1, 2; 19:3-6(?); 20:7-13; 21:14-16, 1, 2; 22:3-11; 23:12-19, 1; 24:2-6; 25:7-14; 26:15-19, 1; 27:2-6; 28:7-11, 1, 2; 29:3-5; 30:6-14; 31:15, 16
- Clark County**
vol. 14 21:56
- Clearwater County**
vol. 14 22:6, 7; 43:58, 59; 44:2; 48:13; 50:10
vol. 15 2:9-11, 14; 3:15; 11:12
- Custer County**
vol. 7 1:1
vol. 14 24:3-9; 25:12, 13, 1, 2; 26:6, 1, 3, 4; 27:5; 28:13-16; 29:1; 30:6, 1, 2; 31:7, 8; 36:24, 25; 37:32
vol. 14 38:35-39; 44:1; 47:6, 10
vol. 15 1:2-4; 2:5; 4:31, 32, 33; 5:37
- Elmore County**
vol. 2 6:28
vol. 14 10:4, 5, 6; 11:7-12; 12:18; 13:25, 26; 14:3, 4; 23:11, 12; 47:9; 49:2
- Fremont County**
vol. 14 16:17
- Gem County**
vol. 14 41:52; 42:53
- Gooding County**
vol. 14 10:2; 12:15, 17; 13:27; 14:5
- Idaho County**
vol. 2 6:26, 27
vol. 14 22:1, 4, 5; 29:21; 31:9; 33:4; 36:26; 43:58; 44:4-7; 48:14, 19; 49:20, 26, 3
vol. 14 50:9
vol. 15 3:18, 22, 24; 4:26, 27; 10:7, 9; 11:1, 2
- Jefferson County**
vol. 14 15:6; 20:44; 26:4; 30:4
- Kootenai County**
vol. 15 8:12
- Latah County**
vol. 2 5:21
vol. 14 34:6; 43:58
- Lemhi County**
vol. 14 25:10, 14; 27:9, 10, 11, 12; 28:17; 31:3, 5
vol. 15 3:23; 9:1-6; 11:3, 4

Idaho (cont.)**Lewis County**

vol. 2 5:23
vol. 14 32:2

Mineral County

vol. 14 44:4

Missoula County

vol. 14 49:25
vol. 15 3:21; 4:25, 28

Nez Perce County

vol. 14 22:2, 3, 8; 43:58, 60

Owyhee County

vol. 4 2:1-5; 3:6-11; 4:12, 13
vol. 14 9:1-8; 10:9, 10; 12:21; 13:22, 23; 14:6; 29:23, 24;
30:8; 34:12, 13; 35:14, 17, 21, 22, 23; 42:55, 56, 57

Power County

vol. 14 16:10; 17:22-25; 18:27, 28; 19:40, 41, 42

Ravalli County

vol. 14 34:5; 48:18; 49:21-24; 50:4, 5, 6
vol. 15 1:1; 3:20; 4:29

Shoshone County

vol. 2 4:18; 5:19, 20
vol. 14 27:8; 34:7; 43:61; 44:3; 45:3; 46:8; 48:15
vol. 15 2:12, 13; 3:19; 4:34, 35; 5:36, 39-42; 6:43, 44, 1;
7:5-9; 8:12, 3; 10:10, 11

Twin Falls County

vol. 14 10:1; 11:14; 12:16, 19, 20; 13:24, 1; 14:2, 7

Valley County

vol. 2 5:22, 24
vol. 14 25:11, 3; 29:22; 30:3; 32:1, 3; 36:27, 28; 37:29-32;
38:33, 34; 39:43; 40:46; 44:1; 47:4, 5; 48:11, 17
vol. 15 6:45

Washington County

vol. 5 15:1, 2
vol. 14 23:9; 34:8-11; 35:15, 16, 20

Iowa**Guthrie County**

vol. 8 40:3

Harrison County

vol. 8 40:5

Kansas**Meade County**

vol. 8 40:1; 41:11

Maine

vol. 8 21:1-7; 22:8-14
vol. 10 15:1, 2; 16:3, 4

Mexico**Chihuahua**

vol. 10 21:1; 23:2-6

Montana**Chouteau County**

vol. 2 9:40

Fergus County

vol. 2 8:39

Jefferson County

vol. 2 7:33; 8:38

Lewis & Clark County

vol. 2 8:36A

Lincoln County

vol. 2 9:42

Madison County

vol. 2 9:41
vol. 10 17:1A, 1B; 19:2-7; 20:8

Ravalli County

vol. 2 6:29, 30; 7:31, 32

Silver Bow County

vol. 2 7:34, 35; 8:37

Nebraska**Butler County**

vol. 8 41:9

Cedar County

vol. 8 41:10

Harlan County

vol. 8 41:8

Johnson County

vol. 8 40:2

Nuckolls County

vol. 8 41:7

Seward County

vol. 8 40:4

Nevada**Churchill County**

vol. 1 2:1st, 2nd; 3:1st, 2nd, 3rd; 4:2nd; 5:2nd; 6:3rd
vol. 2 25:4-13; 26:14-17
vol. 4 13:15, 18; 14:19
vol. 8 34:5

Clark County

vol. 1 11:4th; 14:1st
vol. 6 20:120; 21:121-125; 25:153-159; 26:160-167;
27:168-176; 28:177-183

Douglas County

vol. 1 12:5th, 6th
vol. 7 3:1

Elko County

vol. 2 11:51, 51A, 52; 32:73, 74; 33:75-78; 41:148, 149
vol. 13 11:1

Esmeralda County

vol. 1 2
vol. 3 1:2; 3:3; 5:20; 23:1, 2; 24:3, 4, 5; 25:9; 27:14
vol. 4 21:65-68; 22:69, 71-76; 23:77, 78; 24:85, 86, 87,
89, 90; 25:91, 92, 93, 97; 26:98, 100, 101, 105
vol. 8 28:1-6; 29:8
vol. 13 18:1-5; 20:13, 14, 17; 21:18, 18A, 19

Eureka County

vol. 1 30:36, 37, 38
vol. 2 31:64, 65; 32:66-72; 33:77-81; 35:98, 99, 100;
36:101-109; 37:110-116; 38:117-121; 41:144-147
vol. 3 3:4-13; 6:21
vol. 6 4:4
vol. 8 37:1

Humboldt County

vol. 1 12:3rd; 21:1, 2, 3, 4; 22:5, 6, 7; 24:13; 27:24; 31:39
vol. 2 24:1
vol. 5 3:2, 3; 4:6, 7, 8
vol. 8 33:1, 2
vol. 10 3:3-7, 9, 10; 4:11-20; 5:23, 31, 32

Lander County

vol. 1 11:3rd; 23:8, 9, 10, 11; 24:12, 14, 15, 16; 25:17, 18, 19;
26:20, 21, 22, 23; 28:28; 29:29, 30, 31, 32, 33
vol. 2 26:20, 21, 22; 27:23-31; 28:32-39; 29:40-48; 30:44-57;
31:58-63; 33:82; 34:83-91; 40:139-142; 41:143
vol. 3 4:14, 15; 5:16

Lincoln County

vol. 1 11:1st, 2nd; 12:2nd, 4th
vol. 3 30:1, 2
vol. 5 23:2, 5, 7
vol. 6 20:115, 116, 117; 21:126, 127, 128; 22:129, 130, 132-
135; 23:136-143; 24:144-151; 25:152

Lyon County

vol. 1 11:5th, 6th
vol. 2 46:1st, 2nd

Nevada (cont.)**Lyon County**

vol. 4 12:10, 11; 13:13; 20:58, 60, 61
vol. 7 5:1

Mineral County

vol. 1 5:1st, 2nd; 6:1st, 2nd
vol. 3 31:1, 2, 3; 32:4
vol. 4 14:20-24; 15:25-29; 16:30-35; 17:36-41; 18:42-48;
19:49-55; 20:56, 57, 59; 21:62, 63
vol. 13 19:7-11; 20:12, 15, 16

Nye County

vol. 1 10:3rd, 4th, 5th; 30:34, 35
vol. 2 26:18, 19; 35:92-97; 39:129-132
vol. 3 5:17; 25:6, 7, 8; 26:10, 11, 12; 27:13
vol. 4 6:1, 2, 3; 22:70; 23:79-83; 24:84, 88; 25:94, 95, 96;
26:99, 102, 103, 104
vol. 6 4:1, 2, 3; 5:5-11; 6:12-19; 7:20-26; 8:27-33; 9:3-41;
10:42-47; 11:48-53; 12:54-60; 13:60A-67; 14:68-75; 15:78-
83; 16:84-91; 17:92, 93, 94; 18:99-106; 19:107-114; 20:117A,
118, 119
vol. 8 28:7
vol. 13 1:1; 2:2, 3; 19:6

Pershing County

vol. 1 4:1st; 12:1st; 27:25; 28:26, 27
vol. 2 24:2, 3
vol. 4 13:14, 16, 17
vol. 8 33:3; 34:4
vol. 10 5:25-30
vol. 12 3:1, 2; 4:3-9

Storey County

vol. 1 13:1st, 4th
vol. 4 12:1, 2, 3, 11, 12

White Pine County

vol. 2 9:43, 44; 10:45-50; 38:122-125; 39:126, 127, 128, 133,
134; 40:135-138
vol. 3 5:18, 19; 6:22
vol. 6 17:95-98; 22:131

Washoe County

vol. 1 10:1st, 2nd; 13:2nd, 3rd
vol. 4 11:1-6
vol. 10 1:1, 2; 4:21, 22; 5:24

New Mexico**Bernalillo County**

vol. 10 12:1, 2, 3; 13:4-11; 14:12-16
vol. 12 5:table 1; 9:1, 2, 3; 11:1-5
vol. 13 4:3

Catron County

vol. 1 38:2nd; 39:1st
vol. 3 11:2-6; 12:8

Eddy County

vol. 6 37:1-5

Grant County

vol. 2 11:53, 54; 12:55-59; 13:60, 60A
vol. 3 9:1; 11:7

Harding County

vol. 7 9:1, 2

Lincoln County

vol. 1 35:B; 36:A
vol. 2 13:61

Sandoval County

vol. 1 33:A

Sierra County

vol. 1 41:B

Socorro County

vol. 1 34:A; 35:A; 37:A; 38:A; 40:A; 41:A; 42:A
vol. 2 44:A; 47:A, B, C; 48:A

Taos County

vol. 3 29:2

Union County

vol. 2 45:A

Valencia County

vol. 13 4:1, 2, 3

Oregon**Baker County**

vol. 9 26:4, 5, 6

Benton County

vol. 9 5:5

Clackamas County

vol. 9 20:6-10, 12, 13; 21:14, 16

Clatsop County

vol. 7 15:2

vol. 9 6:9

Coos County

vol. 9 7:9

Crook County

vol. 9 27:25

Curry County

vol. 9 6:1a-5; 7:6, 7, 10, 11ab, 12ab; 18:12c-17

Deschutes County

vol. 13 5:2; 6:3; 7:8, 9; 8:16, 18

vol. 15 38:1-5

Douglas County

vol. 9 7:8

Grant County

vol. 5 11:15, 16, 17

vol. 9 26:2; 27:21, 23, 24, 26; 28:27

Harney County

vol. 5 3:1, 4, 5; 9:1-5; 10:6-12; 11:13, 14, 18, 19

vol. 9 28:3; 29:11, 12; 30:13, 14, 15, 17, 19, 21; 31:22ab, 23

vol. 10 3:8

vol. 15 39:17, 20; 40:23; 41:34, 37-40

Hood River County

vol. 9 20:11; 21:15, 17

Jackson County

vol. 9 19:1, 2

Jefferson County

vol. 9 26:7, 10, 11; 28:28, 29

vol. 13 7:5AB, 6; 8:11, 12, 13, 15, 17; 9:19, 21, 22, 24, 25, 26;
10:29AB, 30, 31

Klamath County

vol. 15 38:7, 11; 39:15, 18, 19

Lake County

vol. 15 38:6, 8-10; 39:12-14, 16, 21, 22; 40:24-33; 41:35

Lane County

vol. 9 5:(Ic) 1; 19:3; 20:4

vol. 13 5:1; 8:14AB; 9:27, 28

Lincoln County

vol. 9 5:2, 3, 4

Linn County

vol. 13 7:4, 7, 10A; 8:10B; 9:20, 23

Malheur County

vol. 9 26:3; 28:1, 2ab, 4, 5, 6; 29:7-10; 30:16, 18, 20; 31:24

vol. 15 41:36

Marion County

vol. 9 20:5

Tillamook County

vol. 7 13:1

vol. 9 5:6; 6:7, 8

Wallowa County

vol. 9 25:(VII) 1; 27:19

Wheeler County

vol. 9 26:8, 9, 12, 13; 27:14, 16, 17, 18

South Dakota

- Custer County
vol. 7 11:1
- Lawrence County
vol. 2 13:62, 63, 64; 14:67
- Meade County
vol. 2 14:65, 66
- Minnehaha County
vol. 8 41:6

Utah

- Piute County
vol. 2 15:73, 74
- Salt Lake County
vol. 2 15:75, 76; 16:77, 78
- Tooele County
vol. 3 6:23-26
- Uintah County
vol. 7 12:2
- Washington County
vol. 5 22:1; 23:3, 4, 6

Washington

- Chelan County
vol. 9 9:4; 10:5, 8-12; 11:15, 19a-21a; 12:21b-25, 27ab;
13:28a-29b; 14:37; 15:44-47; 16:55; 17:63, 64; 18:74-76
- Clallam County
vol. 9 1:1, 2, 3; 5:4
- Douglas County
vol. 9 12:26
- Ferry County
vol. 9 22:9
- Grant County
vol. 9 24:2, 3
- Jefferson County
vol. 9 1:3; 5:4

King County

- vol. 9 13:34, 35; 15:49, 50; 17:67; 19:5-9

Kittitas County

- vol. 9 18:2; 19:10; 25:1, 3, 4

Lewis County

- vol. 9 5:(Ib) 1

Okanagan County

- vol. 9 11:13, 14, 17, 18; 13:30, 31; 14:38, 39, 41, 42, 43;
15:51; 16:53, 54, 56, 57, 58, 60, 62; 22:7ab, 8ab

Pend Oreille County

- vol. 9 21:2-5; 22:11; 23:12

Pierce County

- vol. 9 18:4; 19:11, 12

San Juan County

- vol. 9 9:(III) 1, 2

Skagit County

- vol. 9 10:7

Skykomish County

- vol. 9 14:36; 15:48

Snohomish County

- vol. 9 14:40ab; 16:61; 17:65, 66, 68, 69ab, 70, 72; 18:73

Spokane County

- vol. 9 24:1, 4, 5, 7, 8, 9

Stevens County

- vol. 9 21:1; 22:6ab, 10; 23:13-21

Whatcom County

- vol. 9 9:(IVa) 1, 2, 3; 13:32, 33; 16:52, 59; 17:71

Yakima County

- vol. 9 18:1, 3; 25:2, 5, 6

Wyoming**Crook County**

- vol. 2 14:68, 69, 70; 15:71

Park County

- vol. 4 31:1

Sweetwater County

- vol. 2 15:72

GEOLOGIC UNITS

Arranged alphabetically by state.

Median ages are given in millions of years in parentheses.

Index style: *volume page number:sample description number (median ages)*

Alaska

- Amphitheatre Group (intrusion into)
vol. 7 24:3(125.8)
- Bethlehem Quartz Diorite
vol. 7 19:1(190)
- Bethsaida Granodiorite
vol. 7 19:2(204)
- McLaren metamorphics
vol. 2 20:4(57.2)
vol. 7 24:1(66.2), 2(44.1), 4(32.8)
- Skeena Quartz Diorite
vol. 7 19:1(190)

Arizona

- Granite Mountain Porphyry
vol. 2 2:3A(59.5)
- Lakeshore stock
vol. 4 29:1(67.3), 2(67.1), 3(67.3), 4(64.2)
- Morenci Diorite Porphyry
vol. 2 2:4(61.7, 63.2)

New Cornelia stock

- vol. 2 21:1(62.2, 62.6, 63.6); 2:2(19.1, 19.6)

Sacaton Monzonite Porphyry

- vol. 10 10:4(64.5)

Schultz Granite

- vol. 2 2:3(57.6)

Yavapai granite gneiss

- vol. 10 9:1(306, 330)

California**"Bodie Bluff" dacite**

- vol. 3 18:6(8.4, 8.5), 7(8.2, 9.2)

Mount Biedeman Formation

- vol. 3 20:18(9.3), 19(9.5), 20(9.1); 21:22(5.7)

Murphy Spring Tuff Breccia

- vol. 3 20:15(8.7), 16(8.7)

Potato Peak Formation

- vol. 3 20:17(9.1)

"Queen Bee Hill" dacite

- vol. 3 18:8(9.2)

California (cont.)

- San Marcos gabbro
vol. 15 35:1(102.9, 105.9), 2(111.1), 3(106); 36:4(104.8),
5(104.3, 106.2)
- Silver Hill volcanic series
vol. 3 19:10(8.8), 11(8.9), 12(8.9, 9), 13(9.1), 14(9.4)
- "Wall andesite"
vol. 3 19:9(2.7)
- Willow Springs Formation
vol. 3 21:21(8), 23(5.2, 5.4)
- Colorado**
- Alamosa River stock
vol. 11 25:177(29.1)
- Audubon stock
vol. 11 10:60(70)
- Antero Formation
vol. 11 29:214(33.6, 33.7)
- Badger Creek Tuff
vol. 11 28:202(31.8)
- Blanca Peak pluton
vol. 11 31:233(32.2)
- Browns Park Formation
vol. 11 3:1(24.8)
- Bryan Mountain stock (see Eldora)
- Burns Formation
vol. 11 21:140(14.8)
- Caribou stock
vol. 11 10:61(62.6)
- Chalk Mountain stock
vol. 11 15:98(27.0)
- Conejos Formation
vol. 11 23:160(31.1); 24:164(31.4, 33.4); 27:191(33.8, 34.1),
192(33.4, 34.2)
- Crested Butte laccolith
vol. 11 17:118(29.1)
- Cripple Creek Syenite
vol. 2 3:10(33.4, 33.8)
- Crystal pluton
vol. 11 17:115(12.5), 116(12.3)
- Denver Formation
vol. 11 12:75(64.8); 28:204(56.8)
- Devils Hole Formation
vol. 11 31:226(32.1)
- East Peak Granite
vol. 11 32:240(21.7)
- Eldora stock
vol. 2 4:15(59.1)
vol. 11 10:62(53.7, 54.8, 63), 63(59.1), 64(67.1, 73)
- Empire stock
vol. 11 12:78(67.8)
- Fish Canyon Tuff
vol. 11 18:119(26.8); 22:150(27.7), 151(27.9); 26:187(26.5,
27.4, 27.7, 27.8)
- Fisher Quartz Latite
vol. 11 22:152(26.5), 154(26.8); 23:155(26.5), 156(24.7,
25.9, 25.9, 26.3, 27.3)
- Florissant lake beds
vol. 11 29:210(34.1)
- Gribbles Park Tuff
vol. 11 29:216(34.8); 30:218(28.6, 29.5), 220(33.6)
- Hahns Peak stock
vol. 2 3:11(9.5)
vol. 11 4:6(9.5)
- Haystack stock
vol. 11 10:55(24.4), 56(27.7)

Hinsdale Formation

- vol. 11 22:147(12.4, 15.6), 148(15); 24:166(4.7), 172(17.7);
26:184(21.9), 185(23.4)
- Jamestown stock
vol. 2 3:12(71.8, 77.6)
vol. 11 11:66(71.8, 77.6)
- Johnson Gulch Porphyry
vol. 11 15:102(41, 120)
- La Plata sill
vol. 2 3:9(120)
- Lincoln Creek stock
vol. 11 17:113(33.9)
- Lincoln Porphyry
vol. 2 4:16(64.7)
vol. 11 15:99(64, 530), 100(64.7)
- Little Annie sill
vol. 11 17:111(72.2)
- Mammoth Mountain Tuff
vol. 11 22:153(26.7); 26:186(28.2)
- Mancos Shale
vol. 11 18:120(71.5, 72.7), 122(75.0); 19:124(72.7, 75.2)
- Montezuma stock
vol. 2 3:13(38.6)
vol. 11 14:89(38.6)
- Nathrop volcanics
vol. 11 27:199(29.3); 28:200(28.0), 201(29.1)
- Never Summer stock
vol. 11 10:57(28)
- Ophir pluton
vol. 2 3:8(25.4)
vol. 11 19:130(25.4)
- Pando Porphyry
vol. 11 15:101(70)
- Paradise stock
vol. 11 17:117(24.0)
- Potosi volcanic group
vol. 11 23:158(24)
- Rabbit Ears volcanics
vol. 11 8:44(33)
- Rawley Andesite
vol. 11 27:194(34.2), 195(33.2, 33.7)
- Rico dome
vol. 11 20:132(43.0, 48.0, 82.1), 133(48, 58, 64.0)
- Rito Alto stock
vol. 11 30:221(27.1, 31.8)
- Salida stock
vol. 2 4:14(69.4, 70.4)
vol. 11 27:196(69.4, 70.4)
- San Juan Formation
vol. 11 18:120A(31.8, 40.3, 80.0, 80.4), 120B(26.7, 27.2,
28.2); 19:125(31.4, 32.1, 32.9), 129(25.5)
- Silverton stock
vol. 2 2:6(24.1); 3:7(26.9)
vol. 11 21:138(26.9), 139(24.1)
- Snomass Creek sill
vol. 11 16:109(31.2)
- Snomass pluton
vol. 11 16:110(34.1)
- Spanish Peak stock
vol. 11 32:241(22.9)
- Spruce Ridge dike
vol. 11 19:127(66.9)
- Sunshine Peak tuff
vol. 6 31:1(22.4, 22.7); 33:2(22.0, 22.9)
vol. 11 21:144(22.4, 22.7)

- Thirtynine Mile Andesite
vol. 11 28:206(34.1)
- Treasure Mountain Tuff
vol. 11 23:157(29.6, 30.0), 159(22); 25:173(27.0, 27.6),
174(28.5)
- Tucker Mountain stock
vol. 11 14:90(42.8)
- Tungsten Slide complex
vol. 3 29:3(26)
- Twin Lakes pluton
vol. 11 16:104(18.5, 39.2, 44.1), 105(41.7, 49.7), 106(56)
- Upper Buckin Gulch stock
vol. 11 28:203(64, 64)
- Wall Mountain Tuff
vol. 11 27:198(35.4, 37.3); 28:205(40.0), 207(34.8, 44.5);
29:209(35.7, 36.2), 215(34.7)
- West Elk Breccia
vol. 11 18:123(23, 25)
- Whitehorn stock
vol. 11 27:197(70.0)
- White Porphyry
vol. 11 15:103(100)
- Whiterock pluton
vol. 11 17:114(33.9)
- Idaho**
- Albion Limestone
vol. 15 23:16(32.7)
- Albion Schist
vol. 15 23:15(36)
- Almo pluton
vol. 15 28:1(23.1, 24.5), 2(28.6, 28.3); 29:3(19, 23, 25),
4(24.6), 5(22.7); 30:6(21.5, 24.5), 7(20.8), 8(23.3), 9(16,
24.3), 10(22.3)
vol. 15 30:11(20.8, 24.1), 12(20.1), 13(24, 27.5), 14(28);
31:15(24.8, 31.9), 16(24.6, 25.2)
- Arbon Valley Tuff
vol. 14 18:34(9.6); 19:35(10.3)
- Banbury Basalt (upper)
vol. 14 12:15(4.4), (lower) 17(4.9), 21(7.3); 13:25(13.5);
14:6 (upper) 3.5
- Beaverhead pluton
vol. 15 11:3(441)
- Belt series
vol. 15 2:9(46.2), 10(46.7), 11(59.9), 12(189); 5:36(328)
- Berry Ranch lava flow
vol. 14 11:8(1.7)
- Bighorn Crags batholith
vol. 14 27:9(47.5), 11(47.7), 12(35, 51)
- Boehls Butte Anorthosite
vol. 15 2:13(46.5), 14(61); 10:11(1366, 1605, 1625);
11:12(1404, 1530, 1665)
- Bruneau Basalt
vol. 14 13:26(1.36)
- Bungalow pluton
vol. 14 50:10(43.1)
- Camel Rock Gneiss
vol. 15 26:1(230); 27:2(24), 3(24), 5(22.7, 80), 6(67, 67);
28:7(20.7), 8(18.6), 9(20.9, 28.6), 10(20.2, 24.6), 11(21.5)
- Canyon Creek Orthogneiss
vol. 15 10:10(1096, 1360, 1803)
- Cascade Granodiorite
vol. 14 40:46(75)
- Cassia batholith
vol. 2 4:17(23.1, 24.5)
- Cathedral Rock batholith
vol. 14 27:9(47.5), 11(47.7), 12(35, 51)
- Cedar Butte Basalt
vol. 14 16:10(0.1)
- Chalk Hills Formation
vol. 14 13:22(8.2), 23(8.6)
- Challis intrusive rocks
vol. 14 26:1(45.9, 54.3), 2(44.7), 3(46.0), 4(45.3);
27:5(47.7), 6(50.2), 7(50.7, 51.0), 8(50.7, 57.0), 9(47.5),
10(44.2), 11(47.4), 12(35, 51); 28:13(44.4), 14(39, 42),
15(44.1), 16(43.7), 17(42.7, 47); 29:18(41), 19(48.0),
20(44.0), 21(46, 49), 22(30, 42), 23(46.8, 50.9), 24(45.2,
49.7)
- (following are dubious dates)
vol. 14 29:1; 30:2-8
- (following are Pb α dates)
vol. 14 30:1(50), 2(50); 31:3(59), 4(73), 5(50, 60, 62),
6(23, 40, 40, 42); 31:7(40), 8(40), 9(50-150)
- Challis Volcanics
vol. 14 23:1(47.7), 2(41.5, 46.2); 24:3(47.3), 4(45.6); 5(49.0),
6(48.0), 7(46.7), 8(38.7), 9(43.8); 25:10(45.5), 11(49.0),
12(42.0), 13(49.9), 14(40.3, 42.3)
- (following are dubious dates)
vol. 14 25:1-3; 26:4-6
- Columbia River Basalt
vol. 14 22:1(12.1), 2(97), 3(25), 4(13.5, 23.6), 5(21.3),
6(19.5, 23.1), 7(19.5), 8(15.0, 15.4); 23:9(17.0), 10(15.2),
11(15.1), 12(12.1)
- Council Mountain Quartz Diorite
vol. 14 40:47, 48(ind.), 49(82.0, 117)
- Coolwater Ridge Orthogneiss
vol. 14 45:7(100-300, 309, 375, 818)
- Cottonwood Creek pluton
vol. 14 35:17(86.0, 89.2)
- Dayley Creek Formation
vol. 15 21:2(73.4)
- Deadman Canyon lava flow
vol. 14 10:6(1.35)
- Deadman Creek Orthogneiss
vol. 14 45:4(50-100, 137, 218, 1230)
- Deep Creek stock
vol. 14 39:41(117, 137)
- Deer Gulch lava flow
vol. 14 12:18(5.9)
- Deserette Quartz Diorite
vol. 14 41:50(ind.), 51(84.0)
- Donnelly Quartz Diorite
vol. 14 39:43, 44(ind.), 45(76, 90)
- Eagle Rock Basalt
vol. 14 19:40(4.9)
- Gem stock
vol. 2 4:18(128, 134)
vol. 14 34:7(131); 48:15(94, 116)
- Glenns Ferry Formation
vol. 14 12:16(4.5); 13:1(3.2); 14:2(3.3), 3(3.5), 4(2.8),
5(3.2), 7(4.0)
- Grassy Cone basalt flow
vol. 14 14:1(.02, .07)
- Green Creek complex
vol. 15 17:1(2550), 2(2400, 2439, 2445); 19:3(11), 4(22),
5(6), 6(8.7); 20:7(54.3), 8(535), 9(130), 10(76), 11(52.3),
12(43.3), 13(66.9); 21:14(22.9), 16(412, 804, 995)
- Hammet lava flow
vol. 14 10:5(1.2); 11:7(1.5)
- Harrison Summit Quartzite
vol. 15 23:17(70.2)
- Hole-in-the-Wall Diatomite
vol. 14 13:27(10)

Idaho

- Idaho batholith**
 vol. 2 5:21(66.2, 67.7, 68.3), 22(73.1), 23(115, 122, 126), 24(77); 6:25(43), 26(49), 27(152, 160), 28(43.7)
 vol. 14 32:1(73.1), 2(115, 124), 3(77.0), 4(156); 33:5(60.6), 6(67.0, 68.3); 37:32(ind.); 41:52(ind.); 42:55(ind.); 44:1(70, 74, 96, 700); 45:5(50-100, 226, 476, 1493); 47:3(100, 115), 4(102, 112), 5(113); 49:23(39), 24(43), 1(43.1), 2(43.7), 3(49.3); 50:4(42.0), 5(38.3), 6(54.8), 7(44.8), 9(46.2)
 vol. 15 3:20(43)
- Idavada Volcanics**
 vol. 14 12:20(5.6, 5.7, 5.8, 6.0, 6.5); 13:24(9.6, 9.7)
- Iron Mountain pluton**
 vol. 5 15:1(200)
 vol. 14 35:15(200)
- Kaniksu batholith**
 vol. 14 35:18(73.2), 19(76.1, 77.5, 95.2); 46:9(39, 124, 2455); 50:8(56.7)
- King Hill lava flow**
 vol. 14 11:10(2.5), 11(2.8), 12(3.75)
- Kinnikinic Quartzite**
 vol. 15 8:(2120)
- Lake Creek intrusive**
 vol. 14 27:5(47.7)
- Lava Creek basalt flow**
 vol. 14 15:2(0.1)
- Little Creek Basalt**
 vol. 14 17:22(4.8)
- Lucerne School lava flow**
 vol. 14 11:14(4.2, 5.0)
- Madson Basalt**
 vol. 14 10:2(.54)
- Mahogany Peaks Schist**
 vol. 15 22:4(42), 11(25.3)
- Mann Creek pluton**
 vol. 5 15:2(120)
 vol. 14 35:16(120)
- Manning Canyon-Milligan Phyllite**
 vol. 15 22:7(74.9), 10(66); 23:18(31.3)
- Marble Creek Gneiss**
 vol. 14 45:3(60, 66, 209, 2500)
- Massacre volcanics**
 vol. 14 19:41(6.1, 6.5)
- McCall Migmatite**
 vol. 14 36:27 (age indeterminate)
- McCall Tonalite-Granodiorite**
 vol. 14 36:28 (age indeterminate); 37:29 (age indeterminate)
- Mesa Falls Rugg**
 vol. 14 16:17(.94, 1.09)
- Middle Mountain injection complex**
 vol. 15 23:1(404); 24:2(16.6), 4(17.3), 5(20.6), 6(19); 25:7(18.8, 19.4), 8(17.5), 9(16.1), 10(17.7), 11(18.6)
 vol. 15 25:12(19.3), 13(60, 158, 335), 14(34); 26:15(23, 23), 16(26, 26), 17(19.1), 18(19.9), 19(20.6)
- Morrow Reservoir lava flow**
 vol. 14 10:4(1.2)
- Narrows schist**
 vol. 15 22:3(30.6), 5(25), 6(27.7), 9(27.3); 23:13(24.4)
- North Fork Diorite**
 vol. 15 7:5(1105)
- Orofino Orthogneiss**
 vol. 14 44:2(71)
- Page Mine diabase**
 vol. 2 5:20(1260)
 vol. 15 6:1(1260)

- Peck Mountain complex**
 vol. 14 35:20(161)
- Pogonip(?) Formation**
 vol. 15 22:8(28.8)
- Prichard Formation**
 vol. 15 3:16(68.4), 17(92.3); 7:10(846, 929, 964), 11(1472, 1478, 1490); 8:12(880)
- Purcell sill**
 vol. 15 6:2(870), 3(480), 4(1320)
- Ramey Ridge complex**
 vol. 15 3:18(93); 11:1(538, 574, 596, 680), 2(479, 520)
- Ramshorn Slate**
 vol. 15 4:32(331), 33(393)
- Revett Formation**
 vol. 15 8:3(1580)
- Round Top batholith**
 vol. 14 29:18(41)
- Running Creek pluton**
 vol. 14 29:21(46, 49)
- St. Maries Basalt**
 vol. 14 21:1(3.1)
- St. Regis Formation**
 vol. 15 3:15(76.3, 57); 5:39(279), 40(500), 41(530); 6:43(1033)
- Salt Lake Formation**
 vol. 14 20:43(11.6)
- Sand Springs Basalt**
 vol. 14 10:1(0.5)
- Sawtooth batholith**
 vol. 14 28:13(44.4), 14(39, 42), 15(44.1), 16(43.7)
- Shoestring Road lava flow**
 vol. 14 12:19(6.2)
- Silver City Granodiorite**
 vol. 14 34:12(66.8), 13(65.6); 35:14(62.1)
- Skookum Butte stock**
 vol. 14 49:20(56, 81), 25(42), 26(37)
- South Mountain Granodiorite**
 vol. 14 29:23(46.8, 50.9)
- Starlight Formation**
 vol. 14 18:27(6.5), 28(7.7)
- Stevens Springs Schist**
 vol. 15 23:12(71.8), 19(162)
- Swan Peak Quartzite**
 vol. 15 8:2(1950)
- Walcott Tuff**
 vol. 14 17:23(4.9, 5.7), 24(6.2), 25(6.3); 19:42(6.1)
- Wallace Formation**
 vol. 15 6:44(1780); 8:12(880)
- Wishards Sill**
 vol. 15 7:6(568)
- Kansas**
- Borchers ash**
 vol. 8 41:11(1.97)
- Pearlette ash**
 vol. 8 40:1(.64), 2(.57), 3(.59), 4(.64)
- Maine**
- Castine volcanics**
 vol. 8 22:12(395), 13(207)
- Ellesworth Schist**
 vol. 8 22:10(369), 14(260)
- Oak Point Granite**
 vol. 8 21:7(343); 22:8(264)
- Penobscot Diorite**
 vol. 8 21:5(348), 6(279)

Maine (cont.)

- Sedgwick Granite
vol. 8 22:9(413)
South Penobscot Granite
vol. 8 22:11(360)

Mexico

- Corrales Formation
vol. 10 28:5, 6(42.2, 53.8)
Escuadua Formation
vol. 10 23:2, 3(38.3, 44.5)
Mesa Formation
vol. 10 21:1(37.3)
Nopal Formation
vol. 10 23:4(43.8)

Montana

- Boulder batholith
vol. 2 7:33(76.9, 70.4), 34(70.4, 70.6, 78.4, 80.6), 35(77.3, 77.4); 8:36(68.1, 69.2), 36A(71.8, 72.7), 37(75.1, 75.2), 38(73.2, 76, 81.7)
Black Butte volcanic plug
vol. 10 20:8(22.9, 24.8)
Idaho batholith
vol. 2 6:29(38.3), 30(42); 7:31(59.1, 62.1), 32(54.8)
Judith Mountains pluton
vol. 2 8:39(49.3)
Libby stock
vol. 2 9:42(24.2)
Little Belt Mountains pluton
vol. 2 9:40(41.2, 44.9)
Tobacco Root batholith
vol. 2 9:41(71.9, 73.4, 118.4, 118.4)

Nebraska

- Bishop ash
vol. 8 41:7(.82)
Coleridge ash
vol. 8 41:8(1.26), 9(1.16), 10(1.22)

Nevada

- Aldrich Station Formation
vol. 4 20:56(11.0), 57(11.2), 58(10.5, 11.2), 59(10.6)
Alta Formation
vol. 4 12:11(16.5)
Ashdown pluton
vol. 1 12:C(102)
Ashdown Tuff
vol. 10 4:13(23.7, 25.3), 16(23.9)
August Mountains Andesite
vol. 1 6:C(24)
Aurora-Crater Basaltic Andesite
vol. 4 16:32(.25)
Austin pluton
vol. 1 11:C(157)
vol. 3 5:16(103, 130)
Bates Mountain Tuff
vol. 2 27:27(23.9), 33(23.3), 38?(23.1); 30:51(24.7); 34:83(24.1), 88(23.7); 38:122(23.1)
vol. 6 6:14(22.8)
Battle conglomerate
vol. 1 26:22(37.2), 23(37.2)
Bauers Tuff (Quichapa Group)
vol. 6 19:114(21.3); 23:136(21.6)
Belmont pluton
vol. 1 10:C(79.6); 30:35(78.2)
Belmont-Toquima pluton
vol. 3 5:17(75, 77.3)
Belted Range Tuff (see Shingle Pass Tuff)
vol. 6 16:89(13.8)

- Blackcap Mountain Basalt
vol. 3 25:7(11.8), 8(12.9)
Black Dyke Mountain Andesite
vol. 1 5:A(252), B(253)
Blind Mountain stock
vol. 3 30:1(34.9)
"Bodie Canyon" rhyolite
vol. 4 15:27(11.2)
Box Canyon Formation
vol. 6 8:29(27)
Brougher Dacite
vol. 4 24:86(16.2, 16.2)
Buffalo Mountain pluton
vol. 1 21:4(145, 146); 22:5(153, 160), 6(153), 7(151)
Bullionville Granodiorite
vol. 7 3:1(81.4, 106.7)
Caetano Tuff
vol. 2 28:34(32.7); 29:40(31.2, 33.4), 41(33.3), 42(33.6); 30:50(31, 31.3), 55(33.5), 56(31.2); 31:58(38.4), 59(35.5), 60(32), 61(30.6), 63(32.6, 34.4)
Cain Creek stock
vol. 1 29:29(155)
Calloway Well Formation
vol. 6 18:101(32.3)
Canyon Rhyolite
vol. 10 33:3(13.7, 16.3, 22.3)
"Cherry Valley" crystal tuff
vol. 2 25:10(24.5)
"Clipper Gap Canyon" tuff
vol. 2 34:89(22.2); 38:123(22.1)
Chloropagus Formation
vol. 1 13:B(14.5)
vol. 4 11:5(14.5); 12:15(13.9)
Clipper Gap stock
vol. 1 24:33(151)
Coal Valley Formation
vol. 4 11:3(5.7); 12:8(12.3); 20:60(10.8)
Contact stock
vol. 2 11:51(140, 147)
Copper Canyon stock
vol. 1 26:20(38.2), 21(38.5)
Crescent Peak stockwork
vol. 1 14:A(98.9)
Crow Springs pluton
vol. 1 2:C(202)
Currant Tuff
vol. 6 17:98(31.7)
"Desatoya Mountains" tuff
vol. 2 26:20(24.1)
"Dry Creek" tuff
vol. 2 34:85(34)
Edwards Creek Tuff
vol. 2 27:31(26.9), 32(27)
Elder Creek pluton
vol. 1 25:19(37.3)
Esmeralda Formation
vol. 4 21:65(11.1), 66(11.4), 68(11.5); 22:69(10.7), 71(12.7)
Excelsior Mountains Andesite
vol. 1 6:A(253), B(211)
Fish Creek Mountains Tuff
vol. 2 24:3(24.6); 28:34(24.5), 35A(23.6), 35B(23.9), 36(24.4), 37(25.5)
Forge stock
vol. 12 4:4(78.9)
"Fye Canyon" volcanics
vol. 2 41:144(36.8)

Nevada (cont.)

- Gabbs pluton
vol. 1 10:D(11.3)
- Gilbert Andesite
vol. 4 21:67(15.1)
- Goat Ridge stock
vol. 1 24:14(35.1)
- Granite Mountain stock
vol. 1 23:11(36, 38); 24:12(36, 36)
- Granite Range pluton
vol. 1 10:A(88.8)
- Grass Valley stock
vol. 1 29:32(168)
- Gregg Canyon stock
vol. 1 27:24(104)
- Hartford Hill Rhyolite
vol. 4 11:6(22.7, 22.8); 12:12(22.7)
- Hiko Tuff
vol. 5 23:5(19.6)
vol. 6 23:140(19.6), 142(17.6, 17.7); 24:144(17.9)
- Hilltop stock
vol. 1 24:13(38.1)
- Horse Spring Formation
vol. 6 20:119(29.4); 21:125(13.6); 25:153(19.6), 154(21.3),
155(13.0), 157(15.3), 158(13.1), 159(15.1); 26:160(15.0),
162(13.2)
- Humboldt Formation tuff
vol. 2 32:73(38.6); 33:76(33.2, 34.9), 77(33.9), 78(39.2)
- Humboldt lopolith
vol. 1 2:A(156), B(151)
- Iowa Creek stock
vol. 1 29:31(67.9)
- IXL Canyon pluton
vol. 1 4:B(28)
- Kane Wash Tuff
vol. 6 23:141(13.3); 24:148(13.0), 149(14.0), 150(12.5)
- Kate Peak Formation
vol. 1 13:A(12.8)
vol. 4 12:9(12.4), 10(12.8)
- Kendall Tuff
vol. 8 28:6(31.1)
- Lane Valley stock
vol. 2 10:45(108, 109)
- Lee Peak stock
vol. 1 28:26(131, 149)
- Liberty Pit stock
vol. 2 9:44(?) (103); 10:47(107), 48(107, 115), 49(111)
- Lincoln stock
vol. 1 11:A(88.1); 12B(92.7)
- Lodi Hills pluton
vol. 1 10:E(46.9)
- Lone Mountain pluton
vol. 3 1:2(63)
- Lousetown Formation
vol. 4 12:7(6.9)
- Malpais Basalt
vol. 3 23:1(7.6), 2(8), 3(6.8), 4(8.7)
vol. 4 24:89(7.6), 90(8.0); 25:91(6.8), 92(8.7)
- McClellan Peak Basalt
vol. 4 12:13(1.14)
- “McCoy Mine” tuff
vol. 2 27:24(25.2, 26.5); 30:52(26.3), 53(26.2)
- McCoy stock
vol. 1 28:28(153)
- Meadow Springs pluton
vol. 1 3:A(103)
- Meda Rhyolite
vol. 4 26:98(17.8)
- Mizpah Trachyte
vol. 4 23:83(20.4)
- Monotony Formation
vol. 6 8:33(26.4, 28.4, 28.5)
- Monotony Tuff
vol. 6 9:36(24.9, 25.3); 10:44(27.0); 16:91(26.1); 20:115
(27.4, 27.8)
- Monte Cristo stock
vol. 3 5:18(140), 19(75, 86, 94, 113)
- Morena Rhyolite
vol. 8 28:3(27.7, 31.1)
- Morgan Ranch Formation
vol. 4 20:61(9.3)
- Mt. Como pluton
vol. 1 12:F(146)
- Mount Davis volcanics
vol. 6 26:163(12.7); 27:171(11.8), 172(12.2), 174(13.2),
175(13.2); 28:179(13.8), 182(14.5 – dike in)
- Mount Hope pluton
vol. 1 30:37(35.6)
vol. 3 3:7(49.2), 8(29.9, 32.6), 9(39.8)
- Muddy Creek Formation
vol. 6 26:161(11.1), 164(11.3)
- Needles Range Formation
vol. 6 18:105(26.5), 106(26.2), 108(27.2), 109(28.5, 30.6),
110(29.8), 111(30.8); 21:126(28.9), 127(30.7), 128(30.9),
129(28.3), 130(30.7); 22:134(28.7, 33.4); 24:145(29.1)
- New Pass tuff
vol. 2 27:25(22)
- New York Canyon pluton
vol. 1 4:1st(69); 28:27(69.1)
- North Humboldt Mountains intrusive
vol. 2 11:51A(21.8)
- North Tempiute stock
vol. 1 12:4th(95.5)
- “Northumberland Canyon” tuff
vol. 2 35:94(32.3)
- Northumberland stock
vol. 1 30:34(154)
- Olsen stock
vol. 12 4:3(86.8)
- Osgood Mountain stock
vol. 1 21:1(89.9), 2(88.3, 92.2)
- Paintbrush Tuff
vol. 6 13:62(12.4), 67(11.3, 12.6); 14:72(13.2); 15:79(12.4),
81(12.8, 13.3), 82(12.1, 13.0); 20:118(9.6)
- “Pancake Summit” tuff
vol. 2 34:91(31.3); 35:96(30.1, 30.7); 38:124(32.9);
39:128(32.6), 130(31.5, 33.4), 133(33.9)
- Patsy Mine volcanics
vol. 6 27:173(12.5), 176(13.9); 28:177(15.8, 18.6),
180(14.5, 15.5), 181(15.3), 183(15.8, 16.1)
- Pine Grove Hills pluton
vol. 1 11:5th(87), 6th(90)
- Pyramid Formation
vol. 1 13:3rd(15.2)
vol. 4 11:2(15.2)
- Quichapa Group
vol. 6 19:114(21.3); 22:133(23.8); 23:136(21.6), 139(19.8);
25:152(20.4, 20.9)
- Railroad Valley Rhyolite
vol. 6 17:95(34.0); 18:99(33.4)
- Ravenswood stock
vol. 1 29:30(71.4)

Nevada (cont.)

- Rawhide Formation
vol. 6 8:31(28.5)
- Ruby Hill stock
vol. 1 30:38(99.8)
vol. 3 4:13(78, 123)
- Santa Rosa stock
vol. 1 31:39(97.8, 99.5)
- Searchlight pluton
vol. 1 11:4th(14)
- Shingle Pass Tuff
vol. 6 9:38(23.8, 25.4); 10:42(21.8, 22.5, 25.5, 27.4);
17:92(25.3)
- Siebert Tuff
vol. 4 24:85(15.5); 25:97(14.2)
- Silver Zone pluton
vol. 2 11:52(124)
- Soldier Meadow Tuff
vol. 10 4:19(15.6)
- South Willow Formation (dike)
vol. 1 10:2nd(31.3)
vol. 10 5:24(31.3)
- Spearhead "rhyolite"
vol. 3 24:5(6.7, 6.8); 25:6(7.1)
- Springer stock
vol. 1 12:1st(90)
vol. 12 4:5(78.4), 6(76)
- Stone Cabin Formation
vol. 2 39:129(33.2, 34.8)
vol. 6 18:100(33.4, 34.9), 103(32.4)
- Summit Lake Tuff
vol. 10 1:2(15.6); 15:4(15.1)
- Swett Tuff member (of Wuichapa Group)
vol. 6 23:138(23.3), 143(22.6, 23.5)
- Table Mountain Andesite
vol. 6 21:124(12.0)
- Tenabo stock
vol. 1 23:9(38.2), 10(37.4, 38.2)
- Thirsty Canyon Tuff
vol. 4 24:87(6.7, 6.8), 88(7.1)
vol. 6 11:52(7.8, 9.5), 53(6.2); 12:55(7.5)
- Thumb Formation
vol. 6 26:165(15.6, 17.2), 166(11.7, 13.4); 27:168(11.8),
169(11.8), 170(10.9)
- Timber Mountain Tuff
vol. 6 12:54(11.4), 56(10.6, 10.8, 10.9, 10.9), 58(11.1, 11.4,
11.7), 59(11.1), 60(11.2); 14:75(10.4); 15:76(10.5), 77(10.8,
10.8), 78(10.9); 16:86(11.3, 11.3); 20:117A(12.1)
- Tobin stock
vol. 1 27:25(153)
- Topog Peak pluton
vol. 1 3:3rd(75.9)
- Toquima pluton
vol. 1 11:2nd(76.4)
- Toiyabe Quartz Latite
vol. 2 26:19(23.1)
vol. 4 22:70(21.5)
- Trenton Canyon stock
vol. 1 25:17(87.2), 18(87)
- Tungsten Mountain pluton
vol. 1 3:B(87.4)
- Uncle Sam stock
vol. 12 4:7(74)
- Vindicator pluton
vol. 3 3:3(173)
vol. 8 28:1(19.6, 170)
- Vindicator Rhyolite
vol. 8 28:2(33)

Wahmonie Formation

- vol. 6 15:83(12.9); 16:84(12.5)
- Walti pluton
vol. 1 30:36(33.4)
- "War Canyon" rhyolite
vol. 2 25:6(28.4), 11(22.1)
- Weary Flat stock
vol. 2 10:46(109)
- Whistler Mountain pluton
vol. 3 4:10(84), 11(93, 154, 178), 12(143, 148)
- Windous Butte Tuff
vol. 2 34:131(29.8, 31.6), 132(30.3, 31.7)
vol. 6 6:15(30.9), 16(30.7, 32.8); 17:96(30.3, 30.7),
97(30.2, 30.7); 18:102(30.2), 104(30.6)
- Yuba dike
vol. 3 30:2(94.4)

New Mexico

- Anchor Canyon stock
vol. 1 37:3rd(28.3)
- "Apache Creek" basalt
vol. 3 11:3(0.9)
- Bearwallow Mountain Basalt
vol. 3 11:4(20)
- Bonita Lake stock
vol. 2 13:61(26.6)
- Cibola Gneiss
vol. 12 5:D-J(1610)
- Cooney Quartz Latite
vol. 3 12:8(32)
- Datil Group
vol. 1 35:1st(28.3); 37:1st(30.6); 38:2nd(23.1, 42.6),
3rd(28.3); 39:1st(27.2); 40:2nd(32.1); 41:3rd(32.4);
42:1st(37.1)
- Espinasio volcanics
vol. 1 33:1st(36.9)
- Hanover-Fierro stock
vol. 2 12:55(70.4), 56(57.1, 67.2), 57(58.0, 58.4)
- Jerky Mountain Rhyolite
vol. 3 11:5(25.3)
- Juan Tabo series
vol. 12 9:3(1376)
- Kneeling Nun volcanics
vol. 2 3:60A(33.4)
- La Java Peak Andesite
vol. 2 44:A(23.8)
- Luis Lopez Tuff
vol. 2 47:A(15), B(22.2-glass)
- Magdalena Tuff
vol. 2 47:C(22.5)
- Mickey Pass pluton
vol. 2 46:A(111)
- "Moonstone" tuff
vol. 3 11:6(25.7, 26.3), 7(25.3, 26.2)
- Nitt stock
vol. 1 37:2nd(28)
- Pinos Altos intrusive complex
vol. 2 13:60(69.1, 72.6, 80)
- Popotosa Formation
vol. 1 34:1st(15.8)
- Post-Datil volcanics
vol. 1 38:1st(14.3); 39:2nd(18.6); 40:1st(23.7, 33.2);
41:1st(10.7)
- "Rain Creek" dacite
vol. 3 9:1(33)
- Red Canyon dike
vol. 2 48:A(11.7)
- Sandia Granite
vol. 10 12:1(1300, 1340), 2(1410), 3(1470); 13:4(1120, 1250,

New Mexico (cont.)

- 1290, 1475), 5(1290, 1295, 1360, 1470), 6(865, 935, 1105, 1460), 7(1100, 1215, 1430), 8(1110, 1235, 1460), 9(1125, 1170, 1275, 1455), 10(1065, 1130, 1250, 1455), 11(1460, 1462, 1470); 14:12(1450, 1456, 1480), 13(1440, 1460, 1490), 14(12 dates), 15(1400), 16(50)
 vol. 12 5:A, B, C(1504); 11:1(1334), 2(1336), 3(1313), 4(1152), 5(1550)
Santa Rita stock
 vol. 2 11:53(56.5, 58.9), 54(55.9, 58.2)
Sierra Blanca volcanics
 vol. 1 35:2nd(31.8); 36:1st(34.4)
Thurman Formation
 vol. 1 41:2nd(33.6)
Tyrone stock
 vol. 2 12:58(56.2)
Uracca Mesa Basalt
 vol. 2 45:A(4.3)

Oregon

- Alvord Creek Formation**
 vol. 9 28:3(21.3)
Antelope Flat Basalt
 vol. 9 29:9(15.6)
Bald Mountain batholith
 vol. 9 26:4(102), 5(99)
Butte Creek Volcanic Sandstone
 vol. 9 29:106(15.1)
Clarno Formation
 vol. 9 26:7(41.0), 8(37.5), 9(36.5), 10(34.0)
Colebrook Formation
 vol. 9 7:13ab(138), 14ab(125)
Collier Butte Diorite
 vol. 9 6:3, 4(151, 150)
Columbia River Basalt (see also Picture Gorge and Yakima Basalts)
 vol. 9 27:21(15.4)
Danforth Formation
 vol. 9 27:25(9.2), 26(6)
Deer Butte Formation
 vol. 9 28:5(19.7)
Deschutes Formation
 vol. 9 28:28(5.3), 29(4.3)
Dothan Formation
 vol. 9 7:7(149); 8:16(30-sill in)
Drewsey Formation
 vol. 9 31:22ab(8.9), 23(8.5)
Drinkwater Basalt
 vol. 9 30:21(10.8)
Ecola State Park sill
 vol. 7 15:2(15.9)
Grassy Mountain Formation
 vol. 9 31:24(7.6)
Gunsight Butte sequence
 vol. 9 21:15(4.1)
John Day Formation
 vol. 9 26:11(36.4), 12(32.0), 13(31.5); 27:14(31.1), 15(25.7), 16(25.5), 17(24.9), 18(23.3)
Juntura Formation
 vol. 9 30:19(12.1), 20(11.3)
Laurel Hill pluton
 vol. 9 20:8(8.4), 9(8.0)
Littlefield Rhyolite
 vol. 9 29:7(17.5)
Mascall Formation
 vol. 9 27:20(15.8)
Molalla Formation
 vol. 9 20:7(10.8)

Neahkahnie Mountain sill

- vol. 7 13:1(15.5)
 vol. 9 5:6(16)
Owyhee Basalt
 vol. 9 28:1(24.6), 2(15.2), 3(14.4)
Payette Formation
 vol. 9 29:8(16.7)
Pearce Peak Diorite
 vol. 9 7:11ab(275), 12a(145), b(146); 8:12c(141), d(141)
Picture Gorge Basalt
 vol. 9 27:19(16.6), 22(15.2), 23(14.6), 24(14.5)
Rattlesnake Formation
 vol. 9 27:26(6); 28:27(6.4)
Rhododendron Formation
 vol. 9 20:10(7)
Saddle Mountain Diorite
 vol. 9 6:1ab(285, 285)
Shumurray Ranch Basalt
 vol. 9 30:18(12.1)
Steens Basalt
 vol. 9 24:11(14.7, 15.0, 15.0, 15.0, 15.0, 15.2, 15.3, 15.5)
 12(14.8, 14.8, 14.9, 14.9, 15.0, 15.0, 15.0, 15.2, 15.4, 15.4,
 14.9, 15.5); 30:13(14.8, 14.9, 15.0, 15.1, 15.1, 14.9, 15.2,
 15.1, 15.3), 14(14.7), 15(14.5)
Still Creek intrusive
 vol. 9 20:6(11.6)
Sucker Creek Formation
 vol. 9 28:6(15.4, 18.5)
Table Mountain Syenite
 vol. 9 5:2(33.6)
Tims Peak Basalt
 vol. 9 28:4(21.0)
Trout Creek Formation
 vol. 9 30:17(13.1)
Tupper Rock Schist
 vol. 9 7:9(145, 147)
Wallowa batholith
 vol. 9 25:(VII) 1(149); 26:6(95)
Yakima Basalt
 vol. 9 6:7(15.2), 8(14.5), 9(14.0)
Zigzag Mountain lavas
 vol. 9 20:12(5.8)
- South Dakota**
Ahearn Member (of Chadron Formation)
 vol. 7 11:1(36.3)
Bear Butte laccolith
 vol. 2 14:65(50.9)
Chadron Formation
 vol. 7 11:1(36.3)
Duchesne River Formation
 vol. 7 12:2(39.3)
Gilt Edge Mine pluton
 vol. 2 13:64(58.9)
Hartford ash
 vol. 8 40:5(.71); 41:6(.76)
Homestake Mine Phonolite
 vol. 2 13:62(54.3, 56.8)
Sheep Mountain stock
 vol. 2 13:63(49.4)
Terry Peak pluton
 vol. 2 14:67(57.1)
Vannocker laccolith
 vol. 2 14:66(55.9)
- Utah**
Bingham stock
 vol. 2 15:75(36.9), 76(36.9)

Utah (cont.)

- Harmony Hills Tuff
vol. 5 23:6(19.9)
vol. 6 22:133(23.8); 23:139(19.8); 24:152(20.4, 20.9)
- Last Chance stock
vol. 2 16:77(40.5)
- Little Cottonwood stock
vol. 2 16:78(26.7)
- Marysvale stock
vol. 2 15:73(21.8)
- Ox Valley Tuff
vol. 5 22:1(12.3); 23:2(15.1)
vol. 6 24:147(15.1)
- Quichipa Formation
vol. 5 23:6(19.9)
vol. 6 23:138(23.3), 143(22.6, 23.5)
- Racer Canyon Tuff Member
vol. 5 23:3(18.2), 4(20.3)

Washington

- Anderson Creek pluton
vol. 9 13:30(106.5)
- Beckler Peak stock
vol. 9 13:34(94.2), 35(90.0); 14:36(42, 83, 84, 89.3, 89.9, 98)
- Cascade Pass Quartz Diorite
vol. 9 18:77(20)
- Castle Peak stock
vol. 9 16:59(49.5, 49.8)
- Cathedral batholith
vol. 9 14:39(94)
- Chelan complex
vol. 9 11:16(183, 184, 193), 19ab(134), 20(111, 132, 183);
12:21ab(121), 22(71, 107, 113, 113), 23(82, 107, 113, 113),
24ab(107), 25(104), 26(87, 100, 101, 111), 27ab(87)
- Chopaka pluton
vol. 9 11:14(190)
- Clark Mountain pluton
vol. 9 16:55(56.2, 57.1, 59.2)
- Cloudy Pass batholith
vol. 9 18:74(22.5, 30), 75a(20, 20, 22, 30), 75b(20, 22.1, 30)
- Colville batholith
vol. 9 22:7a(95), 8a(92)
- Coryell batholith
vol. 9 23:13(50.7), 14(50.4)
- Duncan Hill pluton
vol. 9 17:63(45), 64(44.8)
- Eldorado Orthogneiss
vol. 9 14:37(92, 92, 92, 110)
- Ellensburg Formation
vol. 9 25:6(10)
- Fifes Peak Andesite
vol. 9 18:3(30)
- Fortune Creek Granodiorite
vol. 9 18:2(50)
- Golden Horn batholith
vol. 9 16:62(46.6)
- Granite Falls stock
vol. 9 17:65(43.3)
- Grotto batholith
vol. 9 17:72(25.0, 26.3)
- Index Granodiorite
vol. 9 17:66(40), 67(32.5), 68(33, 35), 69a(32.5, 32.5),
69b(32.5)
- Kaniksu batholith
vol. 9 21:4(99.1), 5(92.2)
- Klondike Mountain Formation
vol. 9 22:9(55)
- Loomis pluton
vol. 9 11:13(179, 194)

Marblemount Diorite

- vol. 9 10:7(214, 221, 222), 8(216, 221, 222, 230), 9(220, 221,
221, 223, 233, 243), 10(212, 215, 218, 220, 221, 278), 11(215,
219, 219)
- Monte Cristo stock
vol. 9 18:73(23.9, 24.2)
- Monument Peak stock
vol. 9 16:60(47.9)
- Mount Pilchuck stock
vol. 9 16:61(47.6, 48.0)
- Mount Stuart Granodiorite
vol. 9 15:44(62, 80.3, 92.7), 45(65, 87.7, 87.8, 92.0),
46(71, 85.5, 90.9), 47(57, 85.8, 87.2, 94), 48(86), 49(28,
82.5, 83.4), 50(77, 80)
- O'Brien Creek Formation
vol. 9 23:17(49.9), 18(49.7), 19(41.6), 20(40.2)
- Pasayten dike
vol. 9 15:51(68.0, 85.3, 87.7)
- Perry Creek intrusive
vol. 9 17:71(30)
- Rock Creek dike
vol. 9 16:53(86.1)
- Sanpoil volcanics
vol. 9 23:21(49.8)
- Shuksan metamorphics
vol. 9 10:6(218, 259)
- Silver Point Quartz Monzonite
vol. 9 22:11(48.1, 51.0); 23:12(46.7, 46.8)
- Skagit Gneiss
vol. 9 13:32(46, 98, 112, 428), 33(57, 90); 16:52(66, 67, 79)
- Snoqualmie batholith
vol. 9 18:4(62); 19:5(20), 6(18), 7(17), 8(16.5), 9(16.3,
17.0, 17.7), 10(15.5)
- Spanish Camp Gneiss
vol. 9 13:31(101.6)
- Spirit pluton
vol. 9 21:1(100.0), 2(91.0, 96.0), 3(94.0)
- Squire Creek stock
vol. 9 17:70(34.2, 34.3)
- Swakane Gneiss
vol. 9 9:4(405, 425, 471, 619, 620, 646, 1326, 1422, 1510),
5(69); 18:76(20.4)
- Tatoosh Granodiorite
vol. 9 19:11(14.7), 12(13)
- Turtleback complex
vol. 9 9:1(379, 389, 448), 2(357, 365, 420)
- Yakima Basalt
vol. 9 24:1(20.6), 2(16.8), 3(15.7), 4(14.5), 5(13.8), 6(13.4),
7(13.0), 8(12.1)
vol. 9 25:1(15.5, 16.5, 16.9), 2(16.2, 16.4, 16.4, 16.8),
3(16.1, 16.6), 4(15.1, 15.2), 5(12.3, 13.1, 13.3)
- Yellow Aster complex
vol. 9 9:1(410, 415, 415, 711, 912, 1452), 2(368, 370, 374,
376, 411, 412), 3(64, 75, 248, 427)

Wyoming

- Bear Lodge pluton
vol. 2 14:68(38.8), 69(48.9)
- Black Buttes stock
vol. 2 14:70(54.3)
- Leucite Hills pluton
vol. 2 15:72(1.1)
- Missouri Buttes pluton
vol. 2 15:71(49.6)
- Wigging Formation
vol. 4 31:1(40.2)

PERIODS AND EPOCHS

All age determinations are listed within epochs, for the Cenozoic Era, and within periods for the pre-Cenozoic eras. Epochs and periods are arranged together chronologically.

Index style: *volume page number:sample description number*

Pleistocene (.01-1.8 m.y.)

- vol. 2 15:72
- vol. 3 11:3
- vol. 4 13:13; 16:32, 34
- vol. 6 14:71
- vol. 7 9:1
- vol. 8 40:1-5; 41:6-11
- vol. 10 3:4
- vol. 11 16:107, 108
- vol. 12 1:1, 4, 5, 6, 7; 2:15
- vol. 13 4:1-4; 5:1, 2; 6:3-10A; 8:10B, 11
- vol. 14 10:1-6; 11:7, 8, 9; 13:26; 14:1; 15:2-9; 16:10-17; 17:18; 20:43-51
- vol. 15 38:1-5

Pliocene (1.8-5 m.y.)

- vol. 2 45:A
- vol. 3 19:9
- vol. 4 16:30, 31, 33, 35; 17:36-41; 18:42-48; 22:74; 23:76
- vol. 5 9:1, 2, 5
- vol. 6 14:71
- vol. 7 9:2
- vol. 8 9:78; 41:11
- vol. 9 21:14-17; 28:29
- vol. 10 19:6, 7
- vol. 11 16:108; 24:165, 166, 167, 171
- vol. 13 8:11-18; 9:19, 20, 21; 19:9
- vol. 14 11:7-14; 12:15-18; 13:1; 14:2-7; 17:18-23; 19:40; 20:51, 52, 53; 21:54, 55, 56, 1
- vol. 15 38:6-11; 39:12-16

Miocene (5-22.5 m.y.)

- vol. 1 10:4th; 11:4th; 13:1st, 2nd, 3rd, 4th; 34:1st; 38:1st; 41:1st
- vol. 2 2:2; 3:11; 11:51A; 15:73; 24:1; 26:15, 17, 18; 27:5; 29:43-47; 30:57; 32:67-70, 72; 33:79; 34:89; 38:122, 123; 39:134; 41:147; 47:A, B, C; 48:A
- vol. 3 3:6, 6:23, 24, 25; 11:4; 17:1-4; 18:5-8; 19:10-14; 20:15-20; 21:21, 22, 23; 23:1, 2; 24:3, 4, 5; 25:6-9; 26:10-12; 27:13, 14
- vol. 4 2:5; 3:6-11; 4:12, 13; 6:1, 2, 3; 11:1-5; 12:7-11; 13:14-18; 14:22, 23, 24; 15:25-29; 19:49-53; 20:56-61; 21:62-68; 22:69-76; 23:77, 79-83; 24:84-90; 25:91-97; 26:98-105
- vol. 5 9:3, 4; 10:6-12; 11:13-17; 22:1; 23:2-6
- vol. 6 4:1; 5:6, 7, 9, 10; 7:22; 8:27, 32; 9:34, 35, 40; 10:42; 11:48-53; 12:54-60; 13:60-63; 65-67; 14:68, 69, 70, 72-75; 15:76-83; 16:84-90; 17:94; 19:113; 114; 20:116, 117, 118, 120; 21:121-125; 23:136, 139-143; 24:144, 147-151; 25:152-159; 26:160-167; 27:168-176; 28:177-183; 31:1; 33:2, 3; 37:5
- vol. 7 5:1; 13:1; 15:2
- vol. 8 3:11, 14, 18, 19, 20; 4:21; 5:39; 6:52; 7:59; 8:73, 75; 10:4; 12:25; 14:46; 16:75; 28:1, 4; 33:1, 2; 34:4, 5; 37:1
- vol. 9 5:4, 1b1, 1c6; 6:7, 8, 9; 18:74-77; 19:5-12; 20:6-13; 21:14; 24:1-9; 25:1-6; 27:19-26; 28:27, 28, 2-6; 29:7-12; 30:13-21; 31:22a-24
- vol. 10 1:1, 2; 3:3, 5, 7-10; 4:11, 12, 14, 15, 19-22; 5:25-29, 31, 32; 20:8
- vol. 11 3:2; 4:3-9; 5:11-17; 6:18-26; 7:30-35; 8:40, 41, 42; 9:46; 10:54; 13:85; 16:104; 17:115, 116; 18:123; 20:131; 21:140-146; 22:147, 148, 149; 23:161, 162; 24:163, 166, 168, 172; 25:175, 179, 180, 181; 26:182-185, 188; 29:217; 32:239, 240, 241; 33:243-247; 37:271, 275, 277; 39:285

vol. 12 1:3

- vol. 13 2:3; 8:18; 9:19-28; 10:29-31; 18:1, 2, 3; 19:8, 10, 11; 20:12, 13, 15, 16; 21:19
- vol. 14 9:1-8; 10:9, 10; 11:14; 12:15, 17-21; 13:22-25, 27; 17:22-25; 18:26-34; 19:35-42; 20:43; 21:55-59; 22:1, 3-8; 23:9-12; 26:6; 30:5, 6
- vol. 15 19:3-6; 21:14; 24:2, 4, 5, 6; 25:7-12; 26:17-19; 27:5; 28:7-11; 29:3, 5; 30:6, 9-12; 39:14-22; 40:23-33; 41:34-40

Oligocene (22.5-37.5 m.y.)

- vol. 1 4:2nd; 6:3rd; 10:2nd; 23:8, 9, 11; 24:12, 14; 25:19; 30:36, 37; 33:1st; 35:1st, 2nd; 36:1st; 37:1st, 2nd, 3rd; 38:2nd, 3rd; 39:1st, 2nd; 40:1st, 2nd; 41:2nd, 3rd; 42:1st
- vol. 2 2:6; 3:7, 8, 10; 4:17; 9:43; 13:60A, 61; 15:74, 75, 76; 16:78; 24:2, 3; 25:4-13; 26:14, 16, 19-22; 27:23, 24, 26-31; 28:32-39; 29:40, 41, 42, 48; 30:49-56; 31:59-65; 32:66, 71, 74; 33:75-78, 80, 81, 82; 34:83-91; 35:92-100; 36:101-109; 37:110-116; 38:117-125; 39:126-134; 40:135-142; 41:143-146, 148; 44:A; 47:B, C
- vol. 3 3:8; 6:25; 9:1; 11:5, 6, 7; 12:8; 27:14; 29:1, 2, 3; 30:1; 31:1, 2
- vol. 4 2:4; 11:6; 12:12; 14:19, 20, 21; 19:54, 55; 21:62, 63, 64
- vol. 5 23:7
- vol. 6 4:2, 3, 4; 5:5, 8, 9, 11; 6:12-19; 7:20, 21, 23-26; 8:28-33; 9:36-41; 10:42-47; 11:48; 13:64; 16:91; 17:92-98; 18:99-106; 19:107-112; 20:115, 119; 21:126, 127, 128; 22:129-135; 23:143; 24:145, 146; 31:1; 33:2, 3; 37:5
- vol. 7 11:1
- vol. 8 2:4; 3:10, 16; 4:27-30; 5:31, 32, 38-43; 6:46, 47, 52; 7:57-65; 8:66, 67, 68, 70, 73, 74, 75; 9:76, 84, 85; 10:1, 4, 9, 10; 11:19, 21; 12:24, 32; 13:33, 43, 44, 45; 14:46; 15:63, 68; 16:74, 75; 17:88; 28:2-7
- vol. 9 1:3; 5:(1c) 1-5; 8:16, 17; 15:49; 17:67-71; 18:72, 74, 75ab, 3; 19:3; 20:4, 5; 26:8-13; 27:14-18; 28:1, 4
- vol. 10 3:3, 6; 4:13, 16, 17, 18; 5:23, 24, 26, 30; 15:1, 2; 19:2, 3, 4; 20:8; 21:1
- vol. 11 3:1; 5:10, 17; 7:36; 8:37, 38, 39, 43, 44, 45; 9:46-53; 10:54-58; 13:80-86; 14:87, 88, 89, 91, 93; 15:95, 97, 98; 16:104, 109, 110, 117, 118; 17:119; 18:120A, 120B, 121, 123; 19:125, 128, 129, 130; 21:138, 139, 143-146; 22:149-154; 23:155-160, 162; 24:164, 169, 170; 25:173, 174, 176, 177, 178, 180, 181; 26:183-190; 27:191-195, 198, 199; 28:200, 201, 202, 206, 207; 29:209-216; 30:218-222, 224, 225; 31:226, 227, 228, 233; 32:234, 237, 240, 241; 33:242-247; 37:275, 276; 38:279, 282
- vol. 13 1:1; 2:2; 11:1; 19:8
- vol. 14 22:3-6; 24:8; 25:1, 2, 3; 26:4, 5; 29:22, 1; 30:2-5, 7, 8; 31:6-8; 49:23, 26
- vol. 15 2:5, 6, 8; 3:25-28; 21:14; 22:3, 5, 6, 8, 9, 11; 23:13, 15, 16, 18; 25:14; 26:14-16; 27:2-5; 28:9, 10, 1, 2; 29:3-5; 30:6, 8-11, 13, 14; 31:15, 16

Eocene (37.5-53.5 m.y.)

- vol. 1 10:5th; 23:9, 10, 11; 24:13; 26:20-23
- vol. 2 3:13; 5:19; 6:25, 26, 28, 29, 30; 7:39; 9:40; 13:63; 14:65, 68, 69; 15:71; 16:77; 31:58; 32:73; 36:104, 109; 41:148, 149
- vol. 3 3:7, 9
- vol. 4 31:1
- vol. 7 12:2
- vol. 8 4:30; 9:82, 83; 10:9; 11:17, 18; 13:35, 42, 44; 14:55; 15:57, 60, 67; 17:84; 28:5; 29:8

Eocene (cont.)

- vol. 9 13:32; 16:56-62; 17:63-66, 68; 18:74, 2; 22:10, 11; 23:12-21; 26:7, 8, 9, 11
 vol. 10 14:16; 17:1A, 1B; 19:5; 21:1; 23:2-6
 vol. 11 11:65, 67, 69; 12:79; 14:89, 90, 92, 94; 15:102; 16:104, 105, 106; 17:113, 114; 18:120A; 19:128; 20:132, 133; 27:198; 28:205, 207, 208; 30:222; 31:229, 232; 32:234, 236, 238; 34:252, 253, 255; 35:258, 263; 37:275; 38:286
 vol. 13 11:1
 vol. 14 23:1, 2; 24:3-9; 25:10-14, 1; 28:13, 15, 16, 17; 29:18-24, 1; 30:7, 1, 2; 31:3, 5-8; 49:22-26, 1, 2, 3; 50:4-7, 9, 10
 vol. 15 1:1, 4; 2:5, 6, 7, 9, 10, 13; 3:20-22, 24; 4:29; 20:7, 11, 12; 22:4

Paleocene (53.5-65)

- vol. 2 1:1; 2:3, 3A, 4, 5; 4:15, 16; 5:19; 7:31, 32; 11:53, 54; 12:56-59; 13:62, 64; 14:66, 67, 70; 19:1; 20:4
 vol. 3 1:2; 5:20; 6:26
 vol. 4 2:1, 2
 vol. 7 24:1, 2, 4; 25:5
 vol. 8 2:3, 5-9; 3:9A, 17; 4:23; 6:44, 45; 7:54; 8:72; 9:79, 82, 83; 10:6; 11:11-16, 20, 23; 13:35, 38, 39, 40, 42; 14:51, 52, 53, 55, 56; 15:57, 58, 60, 62; 17:87
 vol. 9 1:2; 9:3; 11:17; 13:33; 15:44, 45, 47; 16:55, 56, 57; 18:2, 4; 22:9
 vol. 10 10:4, 17:1B; 23:6; 11:7-28, 29; 10:59, 61, 62; 11:63, 64, 67, 68, 70; 12:71-78; 15:99, 100, 103; 16:105, 106; 18:127; 20:132, 133, 134, 137; 28:203, 204
 vol. 11 31:230, 231, 232; 34:255; 35:257, 259-263; 36:268, 270; 37:277; 38:282
 vol. 14 26:1-4; 27:5-11; 28:1, 2; 30:1, 2; 31:3, 4, 5; 34:5, 13; 35:14, 23; 37:30; 38:39; 42:53; 45:3-6; 46:8; 48:18, 19; 49:20, 21, 22; 50:6, 8
 vol. 15 1:2, 3; 2:11, 14; 3:15; 20:7, 11; 25:13

Cretaceous (65-136 m.y.)

- vol. 1 3:1st, 2nd, 3rd; 4:1st; 10:1st, 3rd; 11:1st, 2nd, 5th, 6th; 12:1st-5th; 14:1st; 21:1, 2, 3; 24:15, 16; 25:17, 18; 27:24, 25; 28:26, 27; 29:30, 31; 30:35, 38; 31:39
 vol. 2 3:9, 12; 4:14, 18; 5:19, 21-24; 7:33, 34, 35; 8:36-38; 9:41, 44; 10:45-50; 11:52; 12:55, 56; 13:60; 19:1, 3; 46:A, B
 vol. 3 1:1; 3:4, 5; 4:10, 11, 13, 14, 15; 5:16, 17, 19; 6:22, 26; 30:2; 31:3
 vol. 4 2:2, 3; 29:1-4
 vol. 5 3:1-5; 4:6, 7, 8; 15:2
 vol. 6 37:2, 3
 vol. 7 1:1; 3:1; 24:1, 2, 3; 25:5
 vol. 8 2:2, 3, 5, 6, 7; 3:12, 13, 15, 17; 4:22-26; 5:33-37; 6:48-51; 7:54; 9:77; 10:3, 5, 6, 7; 12:25, 26, 28, 30, 31; 13:35, 37, 39, 40, 42; 14:47, 52, 54; 15:69; 16:71, 72, 73, 76, 78; 17:83, 85, 86; 33:2
 vol. 9 7:6, 8, 10; 8:12cd, 13ab, 14ab, 15ab; 9:IVa3; 10:5, 12; 11:17, 19ab, 20, 21a; 12:21b-27b; 13:28a-35; 14:36-43; 15:44-51; 16:52, 53, 54; 19:2; 21:1-5; 22:6-86; 26:3-6
 vol. 11 7:27, 28, 29; 10:60, 61, 62; 11:64, 66, 68, 70; 12:21, 72, 77; 15:95, 96, 100, 101, 102, 103; 17:111, 112; 18:120, 120A, 122; 19:124, 126, 127; 20:132, 133, 135, 136, 137; 27:196, 197; 30:223; 31:230; 32:235; 34:251, 254, 255; 35:256, 262; 36:264-267, 269, 270; 37:272, 273, 274; 38:278, 280, 281, 283, 284; 39:287
 vol. 12 3:1, 2; 4:3-9
 vol. 13 18:5; 19:6, 7; 20:14, 17; 21:18, 18A
 vol. 14 22:2; 31:3, 4, 9; 32:1, 2, 3; 34:6, 7, 12, 13; 35:16-19, 21, 22, 23; 36:24, 25; 37:30, 31; 38:33-38; 39:40, 41, 42; 40:44, 45, 46; 41:48, 49, 51; 42:53, 54, 56, 57; 43:59, 60, 61; 44:1-4, 1, 2; 45:4-7; 46:8, 1, 2; 47:3-7,

- 8, 9, 10; 48:11-19; 49:20, 21, 22; 50:1
 vol. 15 3:15-18, 23, 24; 4:26; 9:3, 4, 5; 20:9, 10, 13; 21:2; 22:7, 10; 23:12, 14, 17; 27:5, 6; 35:1-3; 36:4, 5

Jurassic (136-190 m.y.)

- vol. 1 2:1st, 2nd; 11:3rd; 21:4; 22:5, 6, 7; 28:26, 28; 29:29, 32, 33; 30:34
 vol. 2 6:27; 11:51; 19:2
 vol. 3 3:3; 4:11, 12; 5:18; 32:4
 vol. 6 37:3, 4
 vol. 7 19:1
 vol. 8 10:3, 5, 8; 12:26, 27, 30; 13:34, 36, 40, 41; 14:47, 48, 49; 15:64, 66; 16:70, 77, 79, 80; 17:81, 82, 89; 21:2, 4; 28:1
 vol. 9 1:1; 6:3, 4, 5; 7:6-10, 12ab; 8:12cd, 13ab, 15ab; 11:13, 14, 16, 17, 18, 20; 18:1; 25:VII 1; 26:2
 vol. 10 15:102
 vol. 11 20:134
 vol. 14 32:3; 34:9, 10, 11; 35:20; 39:40, 41
 vol. 15 2:12; 3:19; 23:19; 24:13

Triassic (190-225 m.y.)

- vol. 1 2:3rd; 6:3rd
 vol. 5 15:1
 vol. 7 19:1, 2, 3; 20:4, 5
 vol. 8 10:2, 8; 12:27, 29; 13:34, 36; 15:59, 64; 16:70; 17:81; 22:13
 vol. 9 6:2; 10:6-11; 11:13-16, 20
 vol. 13 18:4
 vol. 14 34:8, 9, 10, 11; 35:15
 vol. 15 2:12

Permian (225-280 m.y.)

- vol. 1 5:1st, 2nd; 6:1st
 vol. 2 9:42
 vol. 6 37:1
 vol. 8 15:59, 65, 66; 17:81; 21:6; 22:8, 14
 vol. 9 6:II 1ab; 7:11ab; 9:IVa3; 10:5, 6, 8, 9, 10; 11:15
 vol. 15 4:30; 5:39; 9:2; 26:1

Pennsylvanian (280-320 m.y.)

- vol. 3 6:21
 vol. 8 21:6
 vol. 9 6:II 1ab; 7:11ab; 10:10
 vol. 10 9:1, 3; 16:4
 vol. 14 31:9
 vol. 15 4:34; 5:39

Mississippian (320-345 m.y.)

- vol. 8 21:1, 7
 vol. 10 9:1
 vol. 15 4:31, 32; 5:36; 25:13

Devonian (345-395 m.y.)

- vol. 8 21:5, 7; 22:10, 11, 12
 vol. 9 9:III 1, 2, IVa2
 vol. 15 4:33; 23:1

Silurian (395-430/440 m.y.)

- vol. 8 21:3; 22:9, 12
 vol. 9 9:III 1, 2, IVa1-4; 13:32; 19:1
 vol. 15 4:33; 11:3, 4; 21:16; 23:1

Ordovician (430/440-ca. 500 m.y.)

- vol. 8 21:3
 vol. 9 9:IVa 1, 3, 4
 vol. 11 15:99; 20:135
 vol. 15 5:38, 40; 6:45, 3; 11:2-4

Cambrian (500-570 m.y.)

- vol. 8 21:3
 vol. 11 15:99

Cambrian (cont.)

vol. 15 5:40, 41, 42; 6:45; 7:6; 9:4, 5, 6; 11:1, 2; 20:7

Precambrian Z (570-800 m.y.)

vol. 8 15:61

vol. 9 9:IVa1, 4

vol. 11 15:99

vol. 15 4:35; 5:37, 38; 7:6, 7; 9:5, 6; 11:1, 2; 21:16, 1

Precambrian Y (800-1600 m.y.)

vol. 2 5:20

vol. 6 35:1

vol. 8 2:1; 6:53; 7:55, 56; 8:69, 71; 11:22; 14:50; 15:60, 61

vol. 9 9:IIa1, 4

vol. 10 9:2; 10:5-8; 12:1, 2, 3; 13:4-11; 14:12-15

vol. 12 5:A, B, C; 9:1, 2, 3; 11:1-5

vol. 14 27:12; 28:14

vol. 15 5:37; 6:43, 1, 2, 4; 7:5, 7-11; 8:12, 3; 9:1, 6; 10:7-11; 11:12; 21:16, 1

Precambrian X (1600-2500 m.y.)

vol. 6 35:1

vol. 8 8:69, 71; 9:80, 81; 15:61

vol. 12 5:D-J

vol. 14 31:9

vol. 15 6:44; 8:1-3; 10:10, 11; 11:12; 17:1, 2; 19:2

Precambrian W (>2500 m.y.)

vol. 15 17:1; 19:2

ROCK TYPES ANALYZED

Index style: *volume page number:sample description number*

Volcanic rocks**Andesite (including andesite tuff)**

vol. 1 5:1st, 2nd; 6:1st, 2nd, 3rd; 41:1st

vol. 2 25:4, 8; 26:15; 36:108; 40:135; 41:148, 149; 44:A

vol. 3 11:2; 19:9; 20:19; 25:7, 8, 9; 26:10, 11, 12; 27:13

vol. 4 11:3; 12:11; 13:15, 16, 18; 14:19, 22, 23, 24; 15:25; 16:33; 17:36, 37, 41; 21:67; 22:75, 76; 23:80-83; 25:93-96; 26:105

vol. 5 10:6

vol. 6 20:116; 21:124; 26:163, 165

vol. 8 3:10, 15; 4:23, 30; 5:31; 6:44; 11:21; 17:81

vol. 9 7:7; 18:3; 20:10-13; 21:15, 16, 17; 23:15, 16; 25:6 (Tuff)

vol. 10 17:1A, 1B

vol. 11 19:129; 22:152; 23:160; 27:193, 194, 195; 28:204, 206; 29:211, 217; 31:229; 32:236

vol. 12 1:5

vol. 13 9:22, 25; 10:29AB; 18:3

vol. 14 23:2; 24:3, 4

Andesitic basalt (see basaltic andesite)**Ash (see rhyolite, bentonite)****Basalt**

vol. 1 13:2nd

vol. 2 29:43, 46; 37:114; 38:120, 121; 45:A

vol. 3 11:3, 4; 20:18; 23:1, 2; 24:3, 4

vol. 4 2:5; 11:2, 4, 5; 12:7; 13:13; 16:34; 18:43-48; 22:74; 24:89, 90; 25:91, 92

vol. 5 9:1, 2; 10:9, 10

vol. 6 7:22; 9:34; 14:71; 19:113; 26:161, 162, 164; 27:169; 28:179

vol. 7 9:2; 13:1; 15:2

vol. 8 3:11 (diike); 4:21; 12:25

vol. 9 5:Ib 1, Ic 1; 6:7, 8, 9; 24:1-9; 25:1-5; 27:19, 21-24; 28:1-4; 29:8, 9, 11, 12; 30:13-16, 18, 21; 31:24

vol. 10 3:4, 4:18; 19:2, 3, 4, 6, 7; 20:8

vol. 11 3:2; 5:10, 15, 16, 17; 6:18-26; 7:30-36; 8:37-40; 9:47; 12:74; 16:107, 108; 21:141, 142; 22:147; 24:165, 166, 168-172; 25:173, 179; 26:185; 27:194

vol. 12 1:1, 2, 3, 6, 8; 2:9, 11, 12

vol. 13 4:1-4; 8:11, 14AB; 9:19, 26, 28; 10:31; 19:9, 10

vol. 14 9:7; 10:1-6; 11:7-12, 14; 12:15-19, 21; 13:22, 23, 25, 26; 14:3-7, 1; 15:2, 6-9; 16:10, 11, 13, 15, 16; 17:18, 19, 22; 18:33; 19:40, 41; 20:44, 45, 46, 48, 50-53; 21:54-57, 59, 1; 22:1, 3, 5-8; 23:9-12; 24:5, 7; 25:12, 2; 26:4, 5; 30:2, 4, 5; 50:1

Basaltic andesite (andesitic basalt)

vol. 1 34:1st

vol. 2 29:47; 32:69, 70; 33:79; 39:126

vol. 4 16:32

vol. 6 24:151; 27:171

vol. 8 3:19, 20; 4:27; 5:38, 39, 43; 10:4

vol. 10 3:5, 6

vol. 11 5:10-14

vol. 12 1:4, 7; 2:10, 14

vol. 13 5:1; 7:4-7, 9, 10A; 8:10B, 12, 13, 15-18; 9:20, 21, 23, 24, 27; 10:30

Bentonite

vol. 9 26:12; 31:23

vol. 11 18:120, 122; 19:124

Comendite

vol. 10 4:21, 22

Dacite (including andesite-dacite, tuff, pumice)

vol. 1 10:2nd; 13:1st

vol. 2 33:82; 34:86; 36:103; 37:110A, 111, 112, 113, 116; 39:126, 127

vol. 3 20:15, 16, 17; 21:21; 27:14

vol. 4 11:1; 12:10; 13:14, 17; 20:61; 23:79; 25:100, 102, 103, 104

vol. 6 26:167; 28:177

vol. 8 2:8, 9; 4:28; 13:37; 15:65, 66; 16:74; 28:7; 29:8

vol. 9 7:7; 16:58

vol. 10 17:1A, 1B

vol. 11 12:75

vol. 12 2:13

vol. 13 5:2; 7:3, 8

vol. 14 30:8

vol. 15 38:7

Extrusive rocks (see volcanic rocks)**Felsic lava**

vol. 14 17:20

Granodiorite (extrusive)

vol. 8 9:80

Ignimbrite (see rhyolite)**Keratophyre**

vol. 8 22:13

Latite (and quartz latite, tuff)

vol. 1 33:1st; 35:1st, 2nd; 42:1st

vol. 2 26:16, 19; 32:71; 33:75; 35:98, 100; 40:139, 140, 141; 41:145

vol. 3 12:8; 31:2

Volcanic rocks (cont.)**Latite (and quartz latite, tuff)**

vol. 4 14:21; 17:39, 40; 19:49-53; 22:70; 24:86

vol. 5 23:3-7

vol. 6 13:61; 19:110-113; 20:115; 21:128; 22:129, 132; 23:137; 33:3

vol. 8 2:4; 3:17; 4:22; 8:74; 12:29; 13:44; 14:55, 56;

15:58, 62; 16:76, 78; 28:4, 5, 6

vol. 10 3:10; 5:28

vol. 11 9:48, 52; 21:145; 22:149, 154; 23:155, 156, 157;

25:173, 174, 175, 181; 26:182, 186

vol. 14 24:4, 6; 25:10, 2; 30:3, 7

Mafic alkalic rock

vol. 6 27:168, 170

Mafic volcanic

vol. 14 25:12, 1, 2; 29:1; 30:2

Olivine basalt (see basalt)**Perlite**

vol. 1 38:1st, 2nd; 39:1st, 2nd; 40:1st

Phonolite

vol. 11 29:212

Porphyry (undifferentiated)

vol. 8 5:43; 7:63

Quartz latite (see latite)**Rhyodacite (volcanic)**

vol. 2 25:12; 26:18

vol. 3 21:23; 31:1

vol. 4 14:20; 26:101

vol. 6 16:84; 17:94; 26:166; 28:181

vol. 8 3:13, 14; 4:24, 25, 26; 12:31, 32; 13:43

vol. 9 23:21

vol. 11 18:120A; 19:125, 126, 127; 24:164; 25:176, 178, 180; 27:191, 192

vol. 12 2:15

vol. 14 24:6; 25:13

vol. 15 39:13

Rhyolite A. Includes tuff, welded tuff, ignimbrite, ash flow, pumice, silicic tuff

vol. 1 40:1st, 2nd

vol. 2 13:60A; 24:1, 2, 3; 25:5, 6, 10, 13; 26:14, 17, 20, 21, 22; 27:23-31; 28:32-39; 29:40, 41, 42, 48; 30:49-57; 31:58-61; 32:73; 33:76, 77, 78; 34:83, 84, 85, 87-91; 35:92-97; 36:102; 37:110B, 115; 38:119, 122-125; 39:128-134; 41:143

vol. 3 6:23; 11:6, 7; 24:5; 25:6

vol. 4 11:6; 12:8, 12; 17:38; 18:42; 19:54, 55; 20:56-60; 21:63-66, 68; 22:69, 71, 72, 73; 23:77, 78; 24:84, 85, 87, 88; 25:97; 26:98

vol. 5 10:8, 11, 12; 11:14-19; 22:1; 23:2, 3, 4

vol. 6 4:1, 2, 4; 5:6-11; 6:12-15, 17-19; 7:20, 21, 23-26; 8:27-33; 9:34, 36-41; 10:42-47; 11:48, 49, 52, 53; 12:54-60; 13:62-64, 66, 67; 14:68, 69, 70, 72, 73, 75; 15:76-83; 16:85-89, 91; 17:92, 93, 96-98; 18:100-106; 19:107, 108, 109, 114; 20:117, 117A, 118, 119; 21:125-127; 22:130, 131, 133, 134, 135; 23:136, 138-143; 24:144-150; 25:152-155, 157-159; 26:160; 27:174, 175; 28:178; 31:1; 33:2

vol. 7 11:1; 12:2

vol. 8 4:22; 5:40, 41; 6:47; 8:70, 73, 75; 9:76, 78;

10:10; 11:20; 12:24; 13:36, 45; 14:46; 15:59, 68;

16:70, 75, 77, 79, 80; 17:84; 28:2, 3; 40:1-5; 41:6-11

vol. 9 20:4, 7; 22:9; 26:10-13; 27:14-18, 20, 25, 26;

28:27, 28, 29, 6; 29:10a; 30:20; 31:22ab

vol. 10 1:1, 2; 3:7, 8, 9; 4:11, 13-16, 19, 20; 5:30; 23:3

vol. 11 3:1; 8:41-45; 9:46; 10:58; 18:119, 120B, 121,

123; 21:144, 146; 22:150, 151, 153; 23:159; 26:187;

27:198; 28:202, 205, 207; 29:209, 210, 214, 215, 216;

30:218, 219, 220, 223; 31:226, 228; 32:235

vol. 13 1:1; 2:2

vol. 14 13:24, 27, 1; 14:2; 15:3, 4; 16:14, 17; 17:21, 23, 24, 25; 18:26-31, 34; 19:35-38, 42; 20:43; 22:4; 23:1; 24:9; 25:11, 14

vol. 15 38:2, 8; 39:12; 40:26, 31

Rhyolite B. Includes domes, flows, lava, vitrophyre, perlite, obsidian, glass

vol. 1 38:3rd

vol. 2 25:7, 9, 11; 29:44, 45; 32:66, 67, 68, 72, 74; 33:80, 81; 35:99; 36:101, 106; 38:117; 40:136, 137, 138; 41:144, 147

vol. 3 11:5; 20:20

vol. 4 3:6-11; 12:9; 15:28; 16:35; 21:62; 26:99

vol. 5 9:3, 4, 5; 10:7; 11:13

vol. 6 5:5; 6:16; 11:50; 13:65; 14:74; 16:90; 17:95; 18:99; 28:180, 183

vol. 8 3:9A, 18; 4:22; 5:32, 36, 37; 6:45; 8:72; 22:12

vol. 9 26:7; 29:7

vol. 10 3:3; 4:17, 21, 22; 5:23, 25, 25, 27, 31; 19:5; 23:2, 4, 5, 6

vol. 11 9:49, 50, 51; 12:77; 13:81-86; 22:148; 26:184; 27:199; 28:200, 201; 30:222, 224; 31:227

vol. 13 18:1; 21:19

vol. 14 9:1-6; 11:13; 12:20; 15:5; 16:12; 17:24; 18:32; 19:39; 20:47, 49; 21:58; 26:6; 30:6

vol. 15 38:1, 3-6, 9-11; 39:14-22; 40:23-25, 27-30, 32, 33; 41:34-40

Trachyte (volcanic)

vol. 3 6:24

vol. 4 23:83

vol. 8 3:18

vol. 10 21:1

vol. 11 20:131; 30:225

Tuff – under rhyolite unless otherwise indicated**Vitrophyre (see rhyolite B unless otherwise indicated)****Volcanics (undifferentiated)**

vol. 6 20:120; 21:121, 122, 123; 25:156; 27:172, 173, 176

vol. 7 9:1

vol. 14 22:2

Intrusive rocks**Adamellite**

vol. 11 32:238

vol. 14 26:2, 3, 4; 27:9, 10, 12; 36:28, 29; 37:32; 38:33, 34; 41:52; 42:54

vol. 15 9:1-4; 23:1; 24:2, 4-6; 25:7-14; 26:15-19, 1; 27:2-6; 28:7-11, 2; 29:3, 4; 30:6, 8, 9, 11, 12

Alaskite

vol. 8 2:6; 28:1

Andesite

vol. 3 6:21

vol. 4 14:22, 24; 15:25, 26; 16:31

vol. 5 3:1

vol. 9 21:14

vol. 11 4:7

Anorthosite

vol. 15 10:11

Aplite

vol. 5 3:4

vol. 8 10:6

vol. 10 12:3

vol. 11 17:112

vol. 14 27:11, 12; 39:40

Camptonite

vol. 8 21:4

vol. 9 5:3

Dacite (porphyritic)

vol. 2 36:104

Intrusive rocks (cont.)**Dacite (porphyritic)**

- vol. 3 3:8; 17:4; 18:5-8; 19:10, 11, 13, 14
- vol. 4 2:4
- vol. 6 28:182
- vol. 8 6:48; 13:35
- vol. 9 1:2; 16:56, 57
- vol. 11 4:9
- vol. 12 3:1

Diabase

- vol. 3 3:6
- vol. 11 24:167
- vol. 15 6:1

Diorite

- vol. 2 2:4; 3:9; 7:35; 8:39; 12:59
- vol. 3 3:2
- vol. 8 11:13; 13:39, 40; 21:5, 6
- vol. 9 1:1; 5:6; 6:1ab, 3, 4; 7:11ab, 12ab; 8:12c; 20:5, 6
- vol. 11 11:65; 19:128; 20:134, 135; 32:241; 33:243, 244, 245, 246
- vol. 14 26:1; 46:1, 2; 47:3
- vol. 15 6:1; 7:5, 6

Felsite

- vol. 1 24:16
- vol. 8 21:14
- vol. 11 4:4; 21:140

Gabbro

- vol. 1 2:1st
- vol. 2 6:27; 19:3
- vol. 9 5:4; 11:14
- vol. 11 32:237; 33:247
- vol. 13 20:17
- vol. 14 32:4; 34:10, 11
- vol. 15 6:2, 4; 35:1-3; 36:5

Granite

- vol. 1 10:5th; 30:35; 37:3rd
- vol. 2 2:3; 11:52; 15:67
- vol. 3 1:2; 3:3; 5:17; 6:25; 29:1
- vol. 5 4:6
- vol. 8 2:1; 5:35; 6:53; 9:79; 10:1, 5, 7; 12:30; 13:41, 42; 17:89; 21:7; 22:8, 9, 11
- vol. 9 16:60; 19:3; 25:(VII) 1
- vol. 10 9:3; 10:5, 7; 12:1, 2; 13:4-11; 14:12-16
- vol. 11 15:97; 16:106; 21:143; 23:162; 31:230, 231; 31:233; 32:239, 240
- vol. 12 3:2; 5:A, B, C; 11:1-5
- vol. 13 20:14; 21:18A
- vol. 14 28:13-17; 29:21, 22; 30:2; 31:3-8; 35:21, 22, 23; 50:10
- vol. 15 11:4

Granodiorite

- vol. 1 2:3rd; 3:2nd; 10:1st, 4th; 12:3rd; 21:1, 2, 3; 23:9, 10, 11; 24:12, 13, 14; 25:17, 18, 19; 27:24, 25; 28:26, 27, 28; 29:29, 31, 32; 30:34, 36; 31:39
- vol. 2 3:12; 4:14, 16, 17; 5:22; 6:25, 28; 11:51, 51A; 12:55, 56, 57; 13:60; 19:1
- vol. 3 3:4; 6:26
- vol. 4 2:1, 2, 3
- vol. 5 15:2
- vol. 7 3:1; 19:2; 24:3; 25:5
- vol. 8 3:12, 16; 6:50; 7:54; 8:67 (pegmatite); 9:77, 80, 85; 11:11, 12, 17; 12:28; 13:33, 38; 14:50, 51; 15:57, 60, 61; 17:83, 86
- vol. 9 11:13, 18; 13:29ab, 30, 34, 35; 14:39, 42; 15:44-50; 16:53, 54, 59, 61; 17:66-69b; 18:2, 3; 19:5-12, 1, 2; 21:1; 22:6a, 7a, 8ab; 26:5
- vol. 11 7:27, 28, 29; 10:57; 11:66, 67; 15:99, 100; 16:104, 109, 110; 17:113, 114, 117, 118; 27:196, 197

vol. 12 4:3, 4, 5, 7, 9

- vol. 14 27:6, 7; 29:18, 23, 24; 32:1; 34:9, 12, 13; 35:14, 16, 18, 19; 36:24, 26, 28; 37:32; 38:33-39; 39:40; 40:46; 41:52; 42:53, 55, 56; 45:5; 46:9; 47:4, 5, 9, 10; 48:11, 15, 18, 19; 49:21, 22, 1, 2; 50:7, 8
- vol. 15 9:1, 5; 28:1, 2; 29:5; 30:7, 10

Granogabbro

- vol. 9 18:74, 75ab

Granophyre

- vol. 8 5:33

Kersantite

- vol. 8 11:19

Lamprophyre

- vol. 1 5:19
- vol. 7 20:5
- vol. 9 22:10
- vol. 11 4:3; 33:243
- vol. 14 27:8

Latite

- vol. 2 15:75, 76
- vol. 4 24:86
- vol. 6 9:35
- vol. 10 5:29
- vol. 11 4:5; 9:53; 10:54, 55, 56, 59; 11:68-70; 12:71, 72, 73; 14:88; 20:137; 23:161; 24:163; 26:188; 31:232
- vol. 14 24:8

Mafic dike

- vol. 9 6:2; 8:15a, 17; 12:73

Minette

- vol. 9 23:17

Monchquite

- vol. 9 21:2

Monzonite

- vol. 1 22:5, 6; 37:2nd
- vol. 2 2:5; 3:9; 4:18; 9:44; 10:45-50; 14:70; 15:74; 19:2
- vol. 8 2:2; 10:3; 13:34
- vol. 9 23:13, 14
- vol. 10 10:4
- vol. 11 11:65, 69; 12:78; 13:79; 19:130; 20:132, 133, 136; 25:177
- vol. 14 29:20

Norite

- vol. 15 36:4

Orendite

- vol. 2 15:67

Pegmatite

- vol. 8 7:65; 8:67; 10:9
- vol. 9 5:5; 9:3; 10:5, 12; 13:33; 18:1; 21:4
- vol. 10 9:2; 10:6
- vol. 12 9:1, 2
- vol. 13 21:18
- vol. 14 43:61
- vol. 15 1:1; 3:18; 30:13, 14; 31:15, 16

Phonolite (porphyritic)

- vol. 2 13:62; 15:71

Porphyry (undifferentiated)

- vol. 11 4:8; 13:80; 15:99, 101, 102, 103; 17:111; 28:208
- vol. 14 30:1

Quartz diorite

- vol. 2 46:B
- vol. 3 4:10; 32:4
- vol. 5 3:5; 4:7, 8; 15:1
- vol. 7 19:1
- vol. 8 7:57; 15:69
- vol. 9 7:12b; 8:12d; 9:III 1, 2, IVa 2; 10:7-11; 11:16, 17, 19a; 12:23, 24a, 26; 15:51; 16:52, 55; 17:63, 64, 65, 70, 72; 18:73, 77; 20:8, 9; 21:3, 5; 26:2, 3, 4

Intrusive rocks (cont.)**Quartz diorite**

- vol. 11 19:128
- vol. 14 34:8; 35:15, 20; 36:26; 39:40, 41, 42, 43; 40:44, 45, 47; 41:48, 49, 50, 51; 42:55, 57; 43:58, 59, 60; 44:1; 46:8; 48:16; 50:9
- vol. 15 4:26; 6:3, 4

Quartz monzonite

- vol. 1 3:1st, 3rd; 4:1st, 2nd; 10:3rd; 11:1st-6th; 12:1st, 2nd, 4th, 5th, 6th; 21:4; 22:7; 24:15; 26:20, 21; 29:30, 33; 30:38
- vol. 2 1:1; 2:2, 3A, 6; 3:7, 8, 11, 13; 4:15; 5:21; 6:26, 29, 30; 7:32, 33, 34; 8:36-38; 9:41; 12:58; 13:63, 64; 14:65, 66; 15:73; 16:77, 78; 46:A
- vol. 3 4:11, 13; 5:16, 18, 19; 30:1; 31:3
- vol. 4 29:1-4; 31:1
- vol. 5 3:3
- vol. 8 2:3, 5, 7; 5:34; 6:46, 49; 7:55, 56; 8:69, 71; 9:82, 83, 84; 10:2, 8; 11:14, 22, 23; 12:27; 14:48, 49, 52, 53, 54; 15:64; 16:71, 72, 73; 17:82, 88; 28:1
- vol. 9 14:38; 21:2; 22:6b, 11; 23:12
- vol. 11 4:6; 10:61, 62; 11:63, 64; 14:89, 90, 92, 93, 94; 15:95; 16:105; 21:138, 139; 32:234
- vol. 13 18:4, 5; 19:6, 7
- vol. 14 29:19; 34:6, 7; 36:24, 25; 47:7, 8; 48:14, 17; 49:21, 22, 3; 50:4, 5, 6

Quartz porphyry (see rhyolite-intrusive)**Rhyodacite**

- vol. 3 19:12
- vol. 8 6:51; 17:85

Rhyolite (intrusive or porphyritic) See also volcanic rocks

- vol. 1 23:8; 30:37
- vol. 2 9:43; 31:64, 65; 36:101, 105, 107; 38:118; 40:142; 41:146
- vol. 3 3:5, 7, 9; 4:12, 14, 15; 21:22
- vol. 4 15:27, 29; 16:30
- vol. 6 4:3
- vol. 8 6:52; 9:81; 12:26; 15:64, 67; 17:87
- vol. 9 8:16
- vol. 10 4:12
- vol. 11 14:87, 91, 98; 26:189, 190
- vol. 13 19:8, 11; 20:12, 13
- vol. 14 29:22; 31:9

Rhyolite (domes)

- vol. 15 38:1, 3-6, 9-11; 39:14-22; 40:23-25, 27-30, 32, 33; 41:34-40

Shonkinite

- vol. 9 23:18

Shoshonite

- vol. 11 12:73

Soda-granite

- vol. 11 17:115, 116

Syenite

- vol. 1 36:1st
- vol. 2 3:10; 5:20; 9:40, 42; 13:61; 14:68, 69
- vol. 8 14:47
- vol. 9 5:2
- vol. 11 29:213; 32:241; 33:243, 244, 246
- vol. 15 6:1; 11:1-3

Theralite (see gabbro)**Tonalite (see granodiorite ?)**

- vol. 2 5:23, 24
- vol. 9 11:19b, 21a; 12:21b, 24b, 25, 27ab; 13:28ab; 14:36, 40ab; 21:7b
- vol. 14 32:2, 3; 36:28; 37:29, 30; 47:6; 48:11, 13, 16

Trachyte

- vol. 2 15:72

Trondhjemite

- vol. 9 11:20; 12:22; 14:41, 43; 26:6

Sedimentary rocks**Sandstone**

- vol. 9 28:5; 29:106; 31:23

Conglomerate

- vol. 1 26:22, 23

Evaporite

- vol. 6 37:1-5

Tuff (see volcanic rocks also)

- vol. 2 39:134
- vol. 7 12:1
- vol. 9 23:19, 20; 25:6; 30:17

Metamorphic and mineralized**Amphibolite**

- vol. 8 21:3
- vol. 9 6:5; 18:1
- vol. 15 3:19; 4:29; 20:8; 21:15, 16; 22:12, 19

Argillite

- vol. 15 3:16, 17; 7:11; 8:12

Gneiss

- vol. 2 7:31
- vol. 3 5:20
- vol. 7 24:1, 4
- vol. 8 6:46; 7:58-62; 11:22
- vol. 9 9:IVa 1-4; 10:5, 8-11; 11:14-17; 12:23, 24a; 13:31, 32, 33; 14:37, 41, 43; 16:52, 54; 18:76; 22:7a, 8a
- vol. 10 9:1
- vol. 12 5:D-J
- vol. 14 34:5; 36:27, 29; 37:31, 32; 44:2; 45:3, 4, 6, 7; 48:18, 19; 49:21, 22
- vol. 15 1:4; 2:5, 14; 3:22; 4:26; 7:10; 9:6; 10:7-10; 17:1, 2; 19:4-6; 20:7, 10, 12, 13; 21:14; 23:1; 24:2, 4-6; 25:7-14; 26:15-19, 1; 27:2-6; 28:7-11

Granulite

- vol. 15 9:6

Greenschist

- vol. 5 3:1-5
- vol. 15 4:30

Metagabbro and metadiabase

- vol. 14 34:10, 11
- vol. 15 4:35; 5:37, 38

Metasediment

- vol. 3 6:22
- vol. 12 9:3

Phyllite

- vol. 7 24:2
- vol. 9 1:3; 5:4
- vol. 15 4:31; 5:40, 41; 22:7, 10; 23:18

Quartzite

- vol. 15 3:24; 4:27; 8:1-3

Schist

- vol. 2 20:4
- vol. 3 1:1
- vol. 8 7:64 (lens in gneiss); 8:66, 68; 21:1; 22:10
- vol. 9 7:6, 8, 9, 10; 8:13b, 14ab; 10:6
- vol. 10 10:8
- vol. 15 1:2, 3; 2:6-13; 3:15, 21; 4:25, 28; 5:36, 42; 6:43-45; 11:12; 17:1, 2; 19:3; 20:9, 11; 21:1, 2; 22:4-6, 8, 9, 11; 23:13-17

Slate

- vol. 9 1:3
- vol. 15 4:32, 33

Veins

- vol. 1 2:2nd; 13:4th; 14:1st
- vol. 3 17:1, 2, 3; 29:2

Metamorphic and mineralized (cont.)**Veins**

- vol. 4 4:12, 13
 vol. 6 35:1
 vol. 7 1:1; 5:5; 19:3; 20:4
 vol. 8 11:13, 15, 16, 18; 21:1; 33:1, 2, 3; 34:4, 5; 37:1
 vol. 10 5:25, 32; 15:1, 2; 16:3, 4
 vol. 11 33:250; 34:251-255; 35:256-263
 vol. 12 4:6, 8
 vol. 13 11:1
 vol. 14 9:8; 10:9, 10; 35:21; 44:1, 3, 4
 vol. 15 7:7, 8, 9

Alteration (not listed if "incipient" or "minor" or "some" or "slight")

- vol. 1 24:15, 16; 26:20-23; 30:38

- vol. 2 1:1; 2:2, 5, 6; 3:7, 8, 9, 10, 11; 4:16, 17, 18;
 5:19, 20, 21; 7:34; 8:39; 9:40, 44; 10:49, 50; 11:54;
 12:55, 56, 59; 13:61, 64; 14:67; 15:71, 73-76; 16:77, 78;
 46:A, B
 vol. 3 24:3; 30:2
 vol. 4 29:4; 31:1
 vol. 9 18:76, 1
 vol. 10 5:25; 15:1, 2; 16:3, 4
 vol. 11 13:80; 15:96; 26:183; 36:265-270; 37:271-277;
 38:278-284; 39:285, 286, 287
 vol. 12 3:2
 vol. 13 2:2, 3; 18:2, 4, 5; 19:6, 7; 20:12, 16
 vol. 14 44:2
 vol. 15 3:20, 23; 4:34; 5:39

MINERALS ANALYZED

Index style: *volume page number:sample description number*

Actinolite

- vol. 9 7:10; 11:14
 vol. 15 5:38

Adularia

- vol. 1 13:4th
 vol. 3 17:1, 2, 3
 vol. 4 4:12, 13
 vol. 7 5:1
 vol. 8 33:1, 2, 3; 34:4, 5; 37:1
 vol. 10 5:25, 32
 vol. 12 4:6, 8
 vol. 13 2:2, 3; 11:1; 18:2; 20:16
 vol. 14 9:8; 10:9, 10

Aegirine-augite

- vol. 2 3:10; 13:62; 14:67, 68
 vol. 11 29:213

Albite

- vol. 9 27:17

Alkali feldspar – see K-feldspar**Allanite**

- vol. 9 14:36; 15:47

Alunite

- vol. 11 26:183

Amphibole

- vol. 9 13:31; 15:45
 vol. 11 31:232

Anorthoclase

- vol. 5 11:17

Apatite

- vol. 2 29:41
 vol. 8 28:1, 3-7; 29:8
 vol. 9 11:17; 13:32; 14:36; 38, 41, 42, 43; 19:10, 1
 vol. 10 14:16
 vol. 11 11:64, 67; 16:104; 31:243-246
 vol. 14 49:20, 23-26
 vol. 15 3:20-22, 24; 4:25-29

Augite

- vol. 2 9:42; 14:68, 69, 70; 15:71
 vol. 11 20:136

Biotite

- vol. 1 3:1st, 2nd, 3rd; 4:1st; 2nd; 10:1st-5th; 11:1st-6th;

- 12:1st, 2nd, 4th; 14:1st; 21:1-4; 22:5, 6, 7; 23:8-11;
 24:12, 14, 15; 25:17, 18, 19; 26:20, 21; 27:24, 25;
 28:26, 27, 28; 29:29-33; 30:34, 36, 37, 38; 31:39;
 35:1st; 36:1st; 37:1st, 2nd, 3rd; 40:2nd; 41:2nd, 3rd; 42:1st
 vol. 2 1:1; 2:3, 3A, 5; 3:7, 8, 11, 13; 4:14-17; 5:19, 21-24;
 6:25, 26, 28, 29, 30; 7:31, 33, 34, 35; 8:36-38; 9:40,
 41, 43; 10:48, 49, 50; 11:51-54; 12:56, 57, 58; 13:60A-64;
 14:65, 66; 15:73, 75, 76; 16:77, 78; 19:1, 3; 20:4;
 25:5, 6, 9, 10, 12, 13; 26:14, 18, 20; 27:24, 26, 28, 30;
 29:40, 42; 30:50, 52:55; 31:60-65; 32:71, 73; 33:75-78,
 82; 34:84, 85, 87, 90; 35:92, 95, 96, 97, 99, 100; 36:101,
 102, 103, 106-109; 37:110A-112, 115, 116; 38:117, 118,
 124; 39:127-134; 40:136-142; 41:143-146, 148, 149;
 46:A, B
 vol. 3 1:2; 3:3, 4, 7, 8; 4:13; 5:16-20; 6:26; 11:6, 7;
 12:8; 17:4; 19:10, 11, 12, 14; 20:15, 16, 17, 20; 21:21,
 22, 23; 27:14; 29:2; 31:1, 2, 3
 vol. 4 3:6, 9; 12:8, 9; 14:20, 21; 15:26, 27, 28; 16:30,
 31; 17:37, 39, 41; 19:49, 50, 53; 20:56, 57, 58, 60, 61;
 21:62, 64-67; 22:69-73, 75, 76; 23:77, 78, 79, 83;
 24:84, 85, 86; 25:97; 26:98-104; 29:1, 2, 3; 31:1
 vol. 5 3:3; 4:6, 7, 8; 9:5; 15:1, 2; 23:3, 4, 6
 vol. 6 4:1, 2, 4; 5:6, 8, 11; 6:16-19; 7:20, 21, 23-26;
 8:27-33; 9:36, 38, 39, 40; 10:42-47; 11:48, 49, 51;
 12:54, 56, 57, 58, 60; 13:60A, 62, 65, 66; 14:68, 69,
 70, 72, 73, 74; 15:78, 79, 81, 82, 83; 16:84, 87, 91;
 17:92-98; 18:99-102, 106; 19:107-112, 114; 20:115, 116,
 117A, 119, 120; 21:121, 122, 123, 125-128; 22:129-
 134; 23:137, 138, 139, 142, 143; 24:144, 145; 25:152-155,
 157, 158, 159; 26:160, 166; 27:173-176; 28:177, 178,
 180-183; 31:1; 33:3
 vol. 7 1:1; 3:1; 11:1; 12:2; 19:1; 24:4
 vol. 8 2:2-9; 3:10, 12, 13, 17; 4:22, 24, 25, 26, 28, 29,
 30; 5:31-35; 6:44, 45, 46, 49-52; 7:54-57, 59, 62;
 8:66-75; 9:76, 77, 82-85; 10:1, 10; 11:11-14, 17, 19, 20,
 21, 23; 12:24, 26, 27, 28, 30, 31; 13:33, 38, 39, 44, 45;
 14:46, 49, 51-56; 15:57, 58, 60, 62, 68, 69; 16:72, 74-80;
 17:82-89; 21:7; 22:9, 10, 11
 vol. 9 7:12ab; 8:12cd; 11:18; 13:30, 34, 35; 14:36,
 39; 15:44-51; 16:55, 59-62; 17:63, 66, 68-72; 18:73-77;
 19:5-9, 11, 12; 21:1, 2, 5; 22:9, 11; 23:12, 13, 14, 16-20;
 25:VII 1; 26:6
 vol. 10 5:24, 27-30; 9:1, 3; 10:4-8; 12:1; 17:1A, 1B;
 19:5; 23:6
 vol. 11 3:1, 2; 4:3, 5, 6, 7; 7:27, 28, 29; 9:52; 10:55, 57,

- Biotite (cont.)**
 60, 62; 11:63, 67, 70; 12:71, 72, 76; 14:89, 90, 92,
 93, 94; 15:95, 98-102; 16:105, 106, 109, 110; 17:112-118;
 18:119-121, 123; 19:124-127, 130; 20:131, 133, 136;
 21:138, 144, 145; 22:152, 153; 23:156, 157, 162;
 24:164; 25:173, 174, 176, 177, 178, 180, 181; 26:182,
 186, 187, 189, 190; 27:191, 192, 195-198; 28:203,
 207; 29:209, 214; 30:219, 223; 31:226, 230-233; 32:234,
 236, 237, 240; 33:247
 vol. 12 3:1; 4:3, 4, 5, 7, 9; 11:1-4
 vol. 13 18:3; 19:6, 11; 20:15; 21:18A
 vol. 14 9:6; 19:38; 24:3; 25:13, 14; 26:1-4; 27:5, 7-11;
 28:15, 16, 17; 29:18-24; 32:1, 2, 3; 34:5, 6, 8, 9, 11;
 35:15-19, 22, 23; 36:24, 25; 37:30, 31; 38:33-39; 39:41,
 42; 40:44, 45, 46; 41:48, 49, 51; 42:53, 54, 56, 57;
 43:59, 60; 44:1, 3; 49:1, 2, 3; 50:4, 5, 7, 8, 10
 vol. 15 1:1-4; 2:5-7, 13, 14; 3:15-17, 21, 22; 6:44; 9:2-5;
 11:3; 19:3-6; 20:7, 9-13; 21:14, 2; 23:14, 16, 17; 24:2,
 4-6; 25:7, 8, 11, 12; 27:2, 3, 5; 28:7-10, 1; 29:3, 5;
 30:6, 7, 9-12; 35:1; 36:4, 5; 38:11; 40:24, 28, 32
- Calcite**
 vol. 10 16:3
- Carnotite**
 vol. 11 36:264, 265, 266, 268, 269, 270; 37:271-277; 38:278-284
- Chlorite**
 vol. 11 19:130; 20:134; 21:138; 22:152
 vol. 14 26:1-4; 27:5; 34:8, 9; 35:20; 37:30, 31; 38:39
 vol. 15 1:3, 4; 5:37, 38; 20:7, 9, 10, 12; 21:2; 23:17
- Clinopyroxene**
 vol. 1 6:3rd
 vol. 2 25:4
- Crossite**
 vol. 9 10:6
- Epidote**
 vol. 9 14:36
 vol. 10 10:5-8
 vol. 14 41:48
- Feldspar** (see also K-feldspar, orthoclase, plagioclase, adularia,
 microcline, sanidine, etc.)
 vol. 3 24:5; 27:14
 vol. 8 5:36, 37, 40; 11:13, 18
 vol. 11 31:229
 vol. 14 11:13; 12:20; 16:17; 18:28, 32; 19:35, 38; 22:4;
 24:6; 25:10; 29:21; 43:61
- Ferrostilpnomelane**
 vol. 10 15:1, 2; 16:3, 4
- Fuchsite**
 vol. 3 1:1
- Galena**
 vol. 6 35:1
- Glass** (obsidian, perlite, etc.)
 vol. 1 38:3rd
 vol. 2 30:57
 vol. 4 20:59
 vol. 5 11:18, 19
 vol. 6 5:5; 9:37; 11:50, 52; 16:89; 20:118
 vol. 8 9:78; 40:1-5; 41:6-11
 vol. 9 27:16, 20, 25, 26; 28:6; 29:106; 30:20
 vol. 10 3:3; 4:12, 19, 21, 22; 5:23, 26
 vol. 11 12:77; 26:184; 27:199; 30:222
 vol. 13 18:1
 vol. 14 18:29; 20:43; 22:4; 26:6; 30:6
 vol. 15 38:1, 3-5, 8-10; 39:14, 17, 20, 21; 40:23, 27, 29, 33;
 41:34, 35, 37
- Glaucofanite**
 vol. 9 7:6, 9, 10
- Hornblende**
 vol. 1 2:1st, 2nd, 3rd; 5:1st, 2nd; 6:1st, 2nd; 12:3rd, 5th,
 6th; 21:2, 4; 22:5; 23:10, 11; 24:12, 13; 28:26; 31:39;
 33:1st
 vol. 2 2:2, 4, 6; 3:9, 12; 4:14, 18; 5:19, 20, 23; 6:27;
 7:33, 34, 35; 8:36-39; 9:40, 41, 44; 10:45-48; 11:51,
 53; 12:55, 56, 57, 59; 13:60; 14:68, 69; 15:74; 19:1,
 2; 25:8; 34:86; 35:98; 36:104; 37:113; 38:125
 vol. 3 17:4; 18:6, 7, 8; 19:12, 13; 20:19; 21:23; 30:1; 32:4
 vol. 4 13:14, 16, 17, 18; 14:19, 22, 23; 15:26; 16:31,
 33; 23:79; 26:102, 105
 vol. 6 19:109; 22:130, 134; 23:142; 25:156; 26:166;
 28:177
 vol. 7 3:1; 24:1, 2, 3; 25:5
 vol. 8 6:48; 8:69; 9:83; 12:24, 32; 13:35, 37, 44; 14:49,
 51; 16:75; 17:83
 vol. 9 1:1, 2; 6:1-5; 7:11ab; 8:15ab; 11:13, 14, 18;
 14:36; 15:44-47, 49, 51; 16:53, 56-59; 17:64, 65, 67,
 69a, 70, 72; 18:73; 20:8, 9, 10; 21:3; 22:10, 11; 23:12,
 15, 21
 vol. 10 5:28
 vol. 11 10:59, 62; 11:65, 66, 69; 13:79; 18:120AB;
 19:125, 126; 20:132, 135, 137; 21:139; 22:156; 23:164;
 25:178; 26:182, 187, 189; 27:191, 192, 196; 30:219
 vol. 13 20:17
 vol. 14 26:1; 27:6, 7, 8; 29:23, 24; 32:2, 4; 34:7-11;
 34:19, 20; 40:44, 45; 41:48, 49; 43:59, 60; 50:9
 vol. 15 3:18, 19; 4:35; 6:1-3; 7:5; 20:8; 21:15, 16;
 23:12, 19; 35:1-3; 36:5
- K-feldspar** (see also orthoclase, microcline, adularia)
 vol. 2 26:16, 17; 48:A
 vol. 6 5:8; 13:67; 14:68; 15:81, 92
 vol. 8 3:17; 22:8
 vol. 10 3:3, 7, 8, 10; 4:11
 vol. 11 30:220
 vol. 14 24:9
 vol. 15 4:34; 11:4; 19:4, 6; 24:2, 4; 25:14; 26:15, 16;
 27:2, 3, 5, 6; 29:3, 4; 30:13, 14; 31:15, 16
- Langbeinite**
 vol. 6 37:1, 3, 4
- Mafic Minerals**
 vol. 11 19:128
- Microcline**
 vol. 5 3:4
 vol. 8 33:3
 vol. 10 10:5-8
 vol. 15 30:14; 31:15, 16
- Monazite**
 vol. 14 47:4, 5, 7, 8; 48:17, 18, 19; 49:21, 22
 vol. 15 3:23
- Muscovite**
 vol. 1 30:35
 vol. 2 4:17; 5:21; 7:32
 vol. 3 4:11, 12; 5:19; 29:1
 vol. 4 2:1, 2, 3
 vol. 7 1:1
 vol. 8 2:1; 6:53; 7:58-62, 64, 65; 8:66, 67; 9:82, 84;
 10:9; 11:16
 vol. 9 7:6, 8, 9, 10; 16:55, 61; 21:2, 4
 vol. 10 9:2; 12:3
 vol. 11 15:97; 17:111
 vol. 12 3:2; 9:1, 2, 3
 vol. 13 18:5; 19:7; 20:12, 14; 21:18

Muscovite (cont.)

- vol. 14 34:6, 12, 13; 35:14, 19, 21; 43:61; 44:1; 50:6
 vol. 15 1:2; 3:15; 21:2; 22:3-6, 9; 23:13; 25:7, 9, 10,
 14; 26:15-19; 27:5, 6; 28:9-11, 1; 29:3, 4; 30:6, 8, 9,
 11, 13, 14; 31:15, 16

Obsidian (see glass)**Orthoclase** (see also K-feldspar)

- vol. 3 4:13; 5:16; 6:23, 24, 25
 vol. 8 7:62; 10:3; 34:4, 5
 vol. 10 5:25
 vol. 13 20:16
 vol. 15 4:34; 19:4, 6; 30:13

Parisite

- vol. 14 44:4

Phengite

- vol. 9 7:6, 8, 9, 10

Phlogopite

- vol. 2 15:72
 vol. 7 20:5
 vol. 8 11:15
 vol. 14 28:13
 vol. 15 22:8

Pitchblende

- vol. 11 33:250; 34:251-253; 35:256-263
 vol. 15 7:7, 8

Plagioclase

- vol. 1 13:1st, 3rd
 vol. 2 26:15; 32:69; 39:126
 vol. 3 9:1; 11:2; 18:5, 6
 vol. 4 11:1, 2, 3, 6; 12:10, 11; 13:15; 14:24; 15:25,
 26, 29; 17:36, 37, 41; 19:51, 55; 21:62, 63; 26:100
 vol. 5 3:1
 vol. 6 18:105; 20:116; 23:142, 143; 25:152
 vol. 8 3:16; 5:42; 7:55, 63; 10:3; 13:43; 15:65
 vol. 9 6:7, 9; 8:13a-14b, 16, 17; 18:2, 3; 20:4, 7; 24:6;
 25:6; 26:10; 28:28, 29; 29:7, 8; 30:14; 31:23
 vol. 10 1:1; 3:5, 6; 5:31; 10:5-8; 17:18
 vol. 11 12:75; 18:120AB; 19:125, 128; 20:134, 135;
 22:147; 23:156, 157, 160; 24:166, 167; 25:173, 178,
 180; 26:182, 187; 27:194, 195; 29:211; 33:242
 vol. 13 18:3; 20:15
 vol. 14 14:3; 22:1, 2; 41:48
 vol. 15 19:4, 6; 24:2-4; 25:16; 27:2-6; 29:3, 4; 38:2, 7;
 39:12, 15, 18, 19; 40:26, 31; 41:40

Potash feldspar (see K-feldspar)**Pyroxene**

- vol. 6 20:116
 vol. 11 20:134
 vol. 14 14:3
 vol. 15 6:1; 7:5

Sanidine

- vol. 1 23:8
 vol. 2 24:1, 2; 25:11; 26:19, 21, 22; 27:23, 24, 25, 27,
 28, 29, 31; 28:32, 33, 34, 35A, 36, 39; 29:40, 44, 45;
 30:50, 51; 31:62-65; 32:68; 33:76; 34:83, 88, 89, 91;
 35:93-96; 36:105, 106, 107; 38:119, 122, 123; 39:129-132;
 40:142; 41:145, 147, 148; 47:A, C
 vol. 3 11:5, 6, 7
 vol. 4 3:10, 11; 11:6; 12:12; 15:28, 29; 16:35; 17:39,
 40; 18:42; 19:51, 52, 54; 21:62, 63, 68; 24:84, 86, 87;
 26:99
 vol. 5 23:2, 5, 7

- vol. 6 4:1-4; 5:6, 7, 9, 10, 11; 6:12-16; 7:20, 21, 23, 26;
 8:27, 30, 32, 33; 9:35, 36, 38, 39; 10:42, 43, 45, 46, 47;
 11:48, 53; 12:55-59; 13:63, 64, 66; 14:75; 15:76,
 77, 80; 16:85, 86, 90; 17:93, 96, 97; 18:100, 103, 104;
 20:117; 22:135; 23:136, 140, 141; 24:246-250; 28:178,
 180, 183; 31:1; 33:2, 3
 vol. 8 3:9a, 14, 18; 5:41; 6:47; 8:73, 74, 75; 15:63, 68;
 33:1, 2
 vol. 9 26:7, 9, 11, 12; 27:14, 15, 18; 28:27, 5, 6; 29:10a;
 31:22ab, 23
 vol. 10 1:2; 3:3, 9; 4:13-17, 20; 5:32; 21:1; 23:2-5
 vol. 11 4:4, 7, 8, 9; 8:44, 45; 10:58; 14:87, 91; 18:120,
 121, 122; 19:124; 21:144, 145, 146; 22:150, 151, 154;
 23:155, 156; 25:181; 26:182, 187; 27:198; 28:200,
 201, 205, 207; 29:209, 210, 212, 214, 215, 216; 30:218,
 219, 224; 31:227
 vol. 13 1:1; 2:2, 3; 18:2; 19:8, 11; 20:13; 21:19
 vol. 14 9:1, 2; 19:39; 25:14; 29:22
 vol. 15 38:6; 40:25, 30; 41:36, 38, 39

Sericite

- vol. 1 24:15, 16
 vol. 3 29:3; 30:2
 vol. 4 29:4
 vol. 7 19:3; 20:4
 vol. 11 13:80; 15:96, 103
 vol. 13 18:4
 vol. 14 44:2

Sphene

- vol. 2 28:38
 vol. 8 28:1; 29:8
 vol. 9 9:IVa 1; 11:17; 12:22, 23, 26; 14:42; 16:54
 vol. 10 13:11; 14:12, 13, 15
 vol. 11 11:64, 69; 12:78; 16:104; 20:132, 133, 137;
 28:208; 30:221
 vol. 14 49:20
 vol. 15 3:24

Sylvite

- vol. 6 37:2-5

Thorite

- vol. 14 47:6

Uraninite

- vol. 11 34:254, 255
 vol. 15 7:9

Uranium-vanadium mineral

- vol. 11 36:267

Vanadiferous hydromica

- vol. 11 39:285, 286, 287

Whole rock

- vol. 1 13:2nd; 26:3rd; 4th; 34:2nd; 35:2nd; 38:1st, 2nd,
 3rd; 39:1st, 2nd; 40:1st; 41:1st
 vol. 2 29:43, 46, 47; 30:56; 32:66, 67, 70, 72, 74; 33:79,
 80, 81; 37:114; 38:120, 121; 40:135; 44:A; 45:A; 47:B
 vol. 3 3:5, 6, 9; 4:10, 14, 15; 6:21, 22; 11:3, 4; 18:5,
 7; 19:9; 20:18; 23:1, 2; 24:3, 4, 5; 25:6-9; 26:10, 11,
 12; 27:13
 vol. 4 2:4, 5; 11:4, 5; 12:7; 13:13; 16:32, 34; 18:43-48;
 22:74; 23:80, 81, 82; 24:87-90; 25:91-96
 vol. 5 3:2, 5; 9:1-5; 10:6, 7, 9-12; 11:13, 14
 vol. 6 7:22; 9:34; 14:71; 19:113; 20:124; 24:151; 26:161-
 165, 167; 27:168-172; 28:179
 vol. 7 9:1, 2; 13:1; 15:2
 vol. 8 3:11, 15, 19, 20; 4:21, 23, 27; 5:38, 39, 43; 6:53;
 10:3, 4, 6, 7; 12:25; 15:61; 16:80; 21:1-6; 22:12, 13, 14

Whole rock (cont.)

- vol. 9 1:3; 5:4; 6:8; 7:7; 8:12d; 10:6; 20:6, 11, 12, 13;
21:14-17; 24:1-5, 7, 8, 9; 25:1-5; 26:8, 13; 27:19, 21-23;
28:1-5; 29:9, 11, 12; 30:13, 15-19; 21; 31:24
- vol. 10 3:4; 4:18; 10:5-8; 12:2; 19:2, 3, 4, 6, 7; 20:8
- vol. 11 5:10-17; 6:18-26; 7:30-36; 8:37-40; 9:47; 12:73,
74; 16:107, 108; 19:129; 21:140, 141, 142; 24:168-172;
25:179; 26:185; 27:193; 28:204, 206; 29:217; 30:225;
31:235, 238
- vol. 12 1:1-8; 2:9-15; 5:A-J; 11:5
- vol. 13 4:1-4; 5:1, 2; 7:3-10A; 8:10B-18; 9:19-28; 10:29A-31;
19:9, 10
- vol. 14 9:3, 5, 7; 10:1-6; 11:7-12, 14; 12:15-21; 13:22-27, 1;
14:2, 4-7, 1; 15:2-9; 16:10-16; 17:18-25; 18:26, 29-34;
19:36, 37, 40, 41, 42; 20:44-53; 21:54-59, 1; 22:3, 5-8;
23:9-12, 1, 2; 24:4, 5, 7; 25:11, 12, 1, 2, 3; 26:4, 5;
27:12; 28:14, 17; 29:1; 30:2-5, 7, 8; 36:26, 27, 28;
37:29, 32; 38:34, 35; 39:40, 43; 40:44, 47; 41:48, 50,
52; 42:55; 43:58; 50:1
- vol. 15 2:8-12; 4:30-33; 5:36-42; 6:43, 45, 4; 7:6; 8:12;
9:1-5; 11:4; 17:1, 2; 19:3-6; 21:1; 22:7, 10, 11; 23:15,
18, 1; 24:2-4; 25:13, 14; 26:15, 16, 1; 27:2-6; 28:2;

29:3, 4; 39:13, 16, 22

Xenotime

vol. 14 48:17

Zircon

- vol. 2 24:3; 25:7; 28:35B, 37; 29:48; 30:49; 31:58, 59
- vol. 8 9:79, 80, 81; 10:2, 5, 8; 11:22; 12:26, 27, 29, 30;
13:34, 35, 36, 38-42, 44; 14:47, 48, 50; 15:59, 60, 61,
64, 66, 67; 16:70, 71, 73; 17:81; 28:2, 3
- vol. 9 9:III 1, 2, IVa 1-4; 10:5, 7-12; 11:15, 16, 17, 19a-21a;
12:21b-27b; 13:28a-29b, 32, 33; 14:37, 40a-43; 16:52;
18:74, 75ab, 1, 4; 19:1, 2, 3; 20:5; 22:6a-8b; 26:4, 5
- vol. 10 13:4-10; 14:14
- vol. 11 8:41, 42, 43; 9:46, 48-51, 53; 10:54, 56, 61;
13:81-86; 14:88; 15:99, 102; 16:104; 20:132, 133, 137;
21:143; 22:148, 149; 23:158, 159, 161; 24:163; 25:175;
26:188; 28:202; 30:221; 31:228; 32:239, 241
- vol. 14 30:1, 2; 31:3-9; 44:1, 2; 45:3-7; 46:8, 9, 1, 2;
47:3, 4, 6, 9, 10; 48:11-19; 49:22
- vol. 15 7:10, 11; 8:1-3; 9:6; 10:7-11; 11:12, 1, 2

MISCELLANEOUS REFERENCESIndex style: *volume:page number***Bibliographies**

- vol. 1:8, 14, 31-32, 43-45
- vol. 2:16, 20, 42, 43
- vol. 3:7, 21-22, 27-28, 32
- vol. 4:4, 27-28, 30
- vol. 5:5, 12, 15, 16, 23-24
- vol. 6:29-30, 33
- vol. 7:1, 4, 6, 9, 12, 15, 20, 25
- vol. 8:18-19, 23, 29, 34-35, 38, 42
- vol. 9:31, 32
- vol. 10:6, 10, 14, 16, 20
- vol. 11:40-41
- vol. 12:2, 4, 8, 9, 12
- vol. 13:2, 4, 10, 12, 21
- vol. 15:31-33, 36, 41

Chronology

- vol. 2:21, 43
- vol. 3:14, 16
- vol. 10:9, 23
- vol. 11:1, 3
- vol. 14:8
- vol. 15:1, 6, 12, 17, 35

Geologic column

vol. 10:22

Geologic discussion

- vol. 1:16-20
- vol. 2:17-18, 21, 43, 45, 47
- vol. 3:13-14

vol. 4:1, 5, 7, 9

vol. 5:1, 7, 13, 17-22

vol. 6:3, 4, 31, 35

vol. 7:1, 3, 4, 7, 11, 13, 17-19, 21-24

vol. 8:27-28, 31-33, 37, 39-40

vol. 10:7, 11-12, 17, 21

vol. 11:1, 3

vol. 12:3, 6-7, 9

vol. 13:1, 3, 11, 14-18

vol. 14:3

vol. 15:1, 6, 11, 12, 17, 35, 37

Geologic maps

vol. 2:18

vol. 3:15

vol. 4:1, 8

vol. 6:32

vol. 7:18, 22

vol. 10:18

vol. 12:6

vol. 14:5, 6, 7

vol. 15:13, 37

Histogram of ages

vol. 1:19

vol. 2:23

vol. 4:10

vol. 6:3

vol. 11:3

vol. 14:4

Isochrons

vol. 10:8

vol. 12:7

vol. 14:33

vol. 15:13, 15, 16, 18

Locality maps

vol. 1:17

vol. 2:18, 22

vol. 3:2, 10, 15

vol. 4:1

vol. 5:2, 8, 14, 18

vol. 6:2

vol. 7:8, 14

vol. 8:20, 26, 42

vol. 9:2, 3, 4

vol. 10:2, 8, 18

vol. 11:2

vol. 13:6, 13

vol. 14:5, 6, 7

vol. 15:13, 37

Space-time profile

vol. 14:8