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A TABULATION OF K-Ar, Rb-Sr, AND Pb-Pb
OBTAINED FOR MATERIALS WITHIN THE
UNITED STATES (INCLUDING ALASKA AND HAWAII)
DURING THE YEARS 1965 THROUGH 1968

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A TABULATION OF K-Ar, Rb-Sr, AND Pb-A AGES
OBTAINED FOR MATERIALS WITHIN THE
UNITED STATES (INCLUDING ALASKA AND HAWAII),
DURING THE YEARS 1965 THROUGH 1968

By Richard F. Marvin, ^{redarick} 1926 -

Open-file report

1974

This report is preliminary and has not
been edited or reviewed for conformity
with U.S. Geological Survey standards
and nomenclature.

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U.S. GEOLOGICAL SURVEY
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1. A tabulation of K-Ar, Rb-Sr, and Pb- α ages obtained for materials within the United States (including Alaska and Hawaii) during the years 1956 through 1964, by Richard F. Marvin. 174 p. (172 tabular).
2. A tabulation of K-Ar, Rb-Sr, and Pb- α ages obtained for materials within the United States (including Alaska and Hawaii) during the years 1965 through 1968, by Richard F. Marvin. 245 p. (243 tabular).
3. A tabulation of K-Ar, Rb-Sr, and Pb- α ages obtained for materials within the United States (including Alaska and Hawaii) during the years 1969 through 1971, by Richard F. Marvin. 193 p. (192 tabular).
4. Preliminary report of seismic refraction survey along the east side of the San Francisco Bay, Alameda County, California, by R. M. Hazlewood. 11 p., 1 pl., 8 figs. 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012; California Div. Mines and Geology, Resources Bldg., 1416 9th St., Sacramento, Calif. 95814; Ferry Bldg., San Francisco, Calif. 94111; and State Office Bldg., 107 So. Broadway, Los Angeles, Calif. 90012. [Material from which copy can be made at private expense is available in the San Francisco, Los Angeles, and Menlo Park offices of the U.S. Geological Survey.]
5. Application of ERTS technology in development programs for the Liptako-Gourma Authority countries (Mali, Niger, and Upper Volta), by J. R. Jones and R. H. Miller. 16 p., 1 fig.
6. Preliminary geologic map of the Witch Lake quadrangle, Michigan, by W. F. Cannon and John S. Klasner. 7 p., 1 map (scale 1:62,500). Michigan Dept. Natural Resources, Geol. Survey Div., Stevens T. Mason Bldg., Lansing, Mich. 48026. [Material from which copy can be made at private expense is available in the Michigan office listed.]
* * * * *

The following are also placed in open file, with copies available for inspection only in the USGS Library, 1033 GSA Bldg., Washington, D.C. 20244:

7. Preliminary geologic map and cross-section of the Betterton quadrangle, Kent County, Maryland, by J. P. Minard. 1 sheet (scale 1:24,000).
8. Selected geologic data for the Beltsville quadrangle, Prince Georges, Montgomery, and Howard Counties, Maryland, by Charles F. Withington and Albert J. Froelich. 2 p. text (incl. 1 text fig.), 1 plate (scale 1:24,000), 8 sheets tabular material.

Contents

Text-----	page -----1
Ages published in 1965-----	3
Alaska-----	3
Arizona-----	5
California-----	8
Colorado-----	17
Connecticut-----	19
Idaho-----	22
Illinois-----	22
Maine-----	22
Massachusetts-----	23
Michigan-----	24
Montana-----	27
Nevada-----	27
North Carolina-----	40
Oregon-----	43
South Carolina-----	44
Tennessee-----	45
Texas-----	45
Utah-----	45
Virginia-----	47
Wisconsin-----	48
Wyoming-----	48
References for 1965-----	49
Ages published in 1966-----	53
Alabama-----	53
Alaska-----	53
Arizona-----	57
California-----	61
Colorado-----	63
Connecticut-----	68
Florida-----	68
Hawaii-----	68
Idaho-----	69
Illinois-----	69
Indiana-----	70
Iowa-----	71
Kansas-----	72
Maine-----	74
Maryland-----	74
Massachusetts-----	77
Michigan-----	78
Minnesota-----	82
Missouri-----	82
Montana-----	84
Nebraska-----	87
Nevada-----	89

Contents (Cont'd)

	page
New Mexico-----	94
North Dakota-----	95
Ohio-----	96
Oklahoma-----	97
Oregon-----	99
Pennsylvania-----	100
South Dakota-----	100
Texas-----	102
Utah-----	104
Washington-----	105
West Virginia-----	105
Wisconsin-----	106
Wyoming-----	106
References for 1966-----	107
 Ages published in 1967-----	 111
Alaska-----	111
Arizona-----	118
Arkansas-----	123
California-----	123
Colorado-----	129
Idaho-----	131
Illinois-----	134
Kansas-----	134
Kentucky-----	135
Maine-----	135
Massachusetts-----	135
Michigan-----	136
Minnesota-----	137
Montana-----	142
Nevada-----	142
New Hampshire-----	145
New Jersey-----	147
New Mexico-----	148
New York-----	150
North Carolina-----	151
Oregon-----	152
Pennsylvania-----	152
South Dakota-----	153
Tennessee-----	153
Utah-----	153
Vermont-----	154
Virginia-----	155
Washington-----	156
Wyoming-----	157
References for 1967-----	158

Contents (Cont'd)

	page
Ages published in 1968-----	162
Alaska-----	162
Arizona-----	163
California-----	170
Colorado-----	179
Connecticut-----	186
Hawaii-----	191
Maine-----	195
Maryland-----	196
Massachusetts-----	196
Michigan-----	197
Minnesota-----	198
Montana-----	199
Nevada-----	203
New Jersey-----	210
New Mexico-----	213
New York-----	217
North Carolina-----	219
Oregon-----	220
Puerto Rico-----	220
Rhode Island-----	220
Tennessee-----	221
Texas-----	222
Utah-----	223
Vermont-----	228
Virginia-----	230
Washington-----	231
Wyoming-----	234
References for 1968-----	238

A TABULATION OF K-Ar, Rb-Sr, AND Pb- α AGES OBTAINED FOR MATERIALS
WITHIN THE UNITED STATES (INCLUDING ALASKA AND HAWAII)
DURING THE YEARS 1965 THROUGH 1968

Richard F. Marvin

This tabulation of ages has been made as a convenience to anyone desiring a quick reference to ages published in the United States and Puerto Rico from 1965 through 1968. This tabulation does not include all published K-Ar, Rb-Sr, or Pb- α ages, but is probably 98 percent complete. Many of the radiometric ages published in abstracts, footnotes, personal communications, and even some articles are not included as sample localities are lacking or are not sufficiently detailed to be of value. Such ages are often published in a subsequent article with detailed sample locations and geologic interpretation. There may be some duplication of ages in this tabulation. The references listed are either the original source for an age or the best source in regard to sample location, decay constants, interpretation, etc. A minor number of unpublished radiometric ages from Ph.D. or M.S. theses are also listed in this tabulation.

The tabulated ages are systematized according to year and state. All ages published during a specific year (i.e. 1965) are grouped together, with the ages listed under the name of the state in which the sample was collected. The states are alphabetized. The dated sample is described as to rock type, location, material analyzed, age(s) determined, radiometric

Ages Published in 1965

Rock type and location Material Dated	K-Ar	Rb-Sr	Pb-α	Reference
<u>Alaska</u>				
Tuff, approx. 56°52'30"N, 133°55'W (Norian age) glass	126(too low)			Brew (1965)
Quartz diorite, Aleutian Range batholith, 59°42'05"N, 153°42'W				Detterman (1965)
biotite	160			
hornblende	168			
Quartz diorite, Aleutian Range batholith, 60°15'10"N, 152°53'10"W				Detterman (1965)
biotite	170			
hornblende	168			
Quartz diorite boulders, Chisik Conglomerate, Naknek Fm., 60°06' 50"N, 152°35'05"W				Detterman (1965)
biotite	153			
hornblende	156			
Granodiorite, Kosina Batholith				Detterman (1965)
biotite	166			
biotite	169			
biotite	157			
hornblende	159			
hornblende	159			
Granodiorite, Kosina Batholith				Detterman (1965)
biotite	170			
hornblende	163			
Diorite, Shumagin batholith, Yvonne Harbor, Nagai Island, 55°N, 160°W				Burk, 1965
muscovite	56			
Diorite, Shumagin batholith, Granite Point, Sanborn Harbor, Nagai Island, 55°N, 160°W				Burk, 1965
muscovite	64			
biotite	57			

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
<u>Alaska</u> (Cont'd)				
Granite, 63°49'N, 144°54'W Gerstle Quarry zircon			105 \pm 10	Holmes (1965)
Granite, 63°38'N, 144°46'W, Mt. Horn zircon			90 \pm 10	Holmes (1965)
Granodiorite, 63°40'N, 144° 03'W, Dot Lake zircon			110 \pm 10	Holmes (1965)
Syenite, north of Point Hayes, Tenakee Area, Chichagof Island biotite	119 \pm 5			Lanphere (1965)
hornblende	247 \pm 10			
Syenite, island in Tenakee Inlet, southern Chichagof Island hornblende	406 \pm 16			Lanphere (1965)
Quartz diorite boulder, South Passage Point, Tenakee Area, Chichogof Island hornblende	275 \pm 11			Lanphere (1965)
Volcanics and intrusive, Doonerak Mountain area, Brooks Range hornblende (volcanics)	475			Pecora (1965)
hornblende (intrusive)	373			
Tuff (Late Triassic), Keku Strait glass	126			Pecora (1965)
Diorite, 67°30'N, 145°45'W plagioclase	155 \pm 6			Reiser (1965)
Leucogabbro, 67°28'N, 145°31'W hornblende	168 \pm 8			Reiser (1965)

Ages Published in 1965

Rock type & Location . Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Arizona</u>				
Quartz monzonite, Grand Wash Cliffs, approx. 35°47'N, 113°59'W				Wasserburg (1965)
biotite		1510		
		1517		
K-feldspar		1608		
K-feldspar crystal		1570		
whole rock		1500		
hornblende	1630			
Pegmatite, Grand Wash Cliffs, approx. 35°47'N, 113°59'W				Wasserburg (1965)
microcline		1667		
		1663		
albite		1538		
		1731		
muscovite		1663		
		1659		
Pegmatite, Grand Wash Cliffs, approx. 35°47'N, 113°59'W				Wasserburg (1965)
microcline		1630		
albite		1520		
Pegmatite, Grand Wash Cliffs, approx. 35°47'N, 113°59'W				Wasserburg (1965)
microcline		1647		
microcline		1663		
microcline		1616		
Welded tuff in Canelo Hills Volcanics, Canelo Hills, NWC, SE-1/4, T22S, R18E Santa Cruz County				Hayes, 1965
Biotite	173 ± 7			
Rhyolite, 32°26'36"N, 111°29'30"W, Ragged Top Peak, Silver Bell district, Pima Co.				Mauger (1965)
biotite	25.0±1.0			

Ages Published in 1965

Rock type and location Material Dated	K-Ar	Rb-Sr	Pb- α	Reference
<u>Arizona (Cont'd)</u>				
Gneiss, Grand Wash Cliffs, approx. 35°47'N, 113°59'W biotite		1593		Wasserburg (1965)
Gneiss, Grand Wash Cliffs, approx. 35°47'N, 113°59'W hornblende	1695			Wasserburg (1965)
Pegmatites, Grand Wash Cliffs, approx. 35°47'N, 113°59'W muscovite microcline	1610	1635 1654		Wasserburg (1965)
Gneiss, east side of Cerbat Mtns., north of Kingman biotite		1360		Wasserburg (1965)
Pegmatite, east side of Cerbat Mtns, north of Kingman microcline		1606		Wasserburg (1965)
Pegmatite, Kingman Feldspar, north of Kingman microcline muscovite microcline		1515 1325 1547		Wasserburg (1965)
Wall rock inclusion in pegmatite, Kingman Feldspar Mine, north of Kingman biotite plagioclase		1345 4888 (<i>excess Ar⁴⁰</i>)		Wasserburg (1965)
Pegmatite, Rare Metals Mine, sec. 21, R12W, T17N, Aquarius Mtns. muscovite microcline	1630	1679 1593		Wasserburg (1965)
Quartz monzonite, sec. 20, R12W, T17N, Aquarius Mtns. biotite		1587		Wasserburg (1965)
Pegmatite in granite, Aquarius Mtns. microcline		1554		Wasserburg (1965)

Ages Published in 1965

<u>Rock type or formation</u> <u>Material Dated</u>	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	<u>Reference</u>
<u>Arizona (Cont'd)</u>				
Pegmatite, Hualpai Mtns, north side of Signal				Wasserburg (1965)
microcline		1369		
microcline		1128		
Quartz monzonite, Hualpai Mtns., north side of Signal				Wasserburg (1965)
biotite		504		
microcline		1061		
total rock		937		
Granite, east of Yarnell				Wasserburg (1965)
microcline		941		
biotite		831		
Quartz monzonite, Yuma				Wasserburg (1965)
biotite		70		
Alaskite, 32°24.82'N, 111°33.10'W Silver Bell District, Pima Co.				Mauger (1965)
biotite	64.6±2.5			
Quartz monzonite, 32°23.87'N, 111°31.77'W, Silver Bell District Pima Co.				Mauger (1965)
biotite	67.1±2.7			
Quartz monzonite, 32°25.67'N, 111°32.22'W, El Tiro Pit, Silver Bell District, Pima Co.				Mauger (1965)
biotite (mineralized)	65.5±2.0			
biotite (weathered)	63.4±2.2			
Dacite (late Cretaceous) near Oxide Pit, Silver Bell district Pima Co.				Mauger (1965)
biotite	57.7±2.0			
Dacite (late Cretaceous), east side of Silver Bell Mts., Pima Co.				Mauger (1965)
biotite	55.3±2.8			
Rhyolite, Mt. Lord Ignimbrite (late Cretaceous), Silver Bell district, Pima Co.				Mauger (1965)
Sanidine	59.7±1.8			
Andesite, 32°23'07"N, 111°24' 42"W, Petroglyph Hill, Silver Bell district, Pima Co.				Mauger (1965)
biotite	27.9±1.4			

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>California</u>				
Quartz diorite, Spreckels quad., sec. 17, T16S, R3E biotite	66.0±1.8			Chesterman (1965)
Granodiorite, Patterson Mtn. quad., sec. 16, T11S, R25E biotite	101±5			Chesterman (1965)
Schist, Patterson Mtn. quad., sec. 27, T11S, R25E hornblende	105±6			Chesterman (1965)
Diorite, Avawatz Pass quad., sec. 8 (projected), T17N, R6E biotite	126±7			Chesterman (1965)
Pegmatite, Avawatz Pass quad., sec. 8 (projected), T17N, R6E biotite	62.9±1.8			Chesterman (1965)
Basalt, Jonesville quad., 40° 13'N, 121°23'W plagioclase	115±50[?]			Chesterman (1965)
Andesite, Tuscan Buttes quad., sec. 28, T28N, R2W plagioclase	84±15			Chesterman (1965)
Rhyodacite, Glendora quad., sec. 21, T1N, R9W biotite	27.5±2.5			Chesterman (1965)
Granitic rock, Pit River Stock Project City quad., 40°45'N, 122°20'W hornblende	215±18			Chesterman (1965)
Quartz monzonite, Mt. Whitney quad., 36°35'N, 118°20'W plagioclase	77±15			Chesterman (1965)
Syenite, San Fernando quad., sec. 24, T5N, R14W tremolite	168±15			Chesterman (1965)
Syenite, San Fernando quad., sec. 24, T5N, R14W chlorite	159±15			Chesterman (1965)

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr Pb-α	Reference
California (Cont'd)		
Granitic rock, Valley Mtn. quad., sec. 24 (proj.) T1S, R10E biotite	163±7	Chesterman (1965)
Aplite, Rocky Hill quad., sec. 7, T19S, R27E biotite	136±5	Chesterman (1965)
Chert layer in amphibolite Lindsay quad., sec. 31, T19S, R27E amphibole	307±30	Chesterman (1965)
Quartz monzonite, Shoshone quad., sec. 20, T22N, R6E biotite	18.8±1.2	Chesterman (1965)
Granitic rock, San Fernando quad., sec. 26, T3N, R14W biotite	76±2	Chesterman (1965)
Granodiorite, Rocky Hill quad., sec. 7, T19S, R27E biotite	128±5	Chesterman (1965)
Quartz monzonite, Rocky Hill quad., sec. 20, T18S, R27E biotite	109±4	Chesterman (1965)
Granitic rock, Vidal quad., sec. 28, T2S, R22E biotite	98.5±4.0	Chesterman (1965)
Granitic rock, Fenner quad., sec. 31, T9N, R19E biotite	70.3±3.0	Chesterman (1965)
Granitic rock, Montara Mtn. quad., 37°31'N, 122°30'W biotite	86.2±3.4	Chesterman (1965)
Granitic rock, Monterey quad., biotite	78.5 (tentative)	Chesterman (1965)
Granitic rock, Felton quad., 37°01'N, 122°03'W biotite	71.0±0.9	Chesterman (1965)
Granitic rock, Monterey quad., 36°37'N, 121°56'W biotite	75.9±1.9	Chesterman (1965)
Granitic rock (brecciated), Partington Ridge biotite	10.9±1.2 (too low)	Chesterman (1965)

page 9

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
<u>California</u> (Cont'd)				
Basalt, top of Benton Range NE1/4, sec. 16, T2S, R31E				Dalrymple (1965a)
biotite	3.17 \pm 0.30			
whole-rock	3.31			
whole-rock	3.38			
Basalt, top of Benton Range, SE1/4, sec. 16, T2S, R31E				Dalrymple (1965a)
whole-rock	3.24			
whole-rock	3.42 (avgs. of 12 determinations)			
Basalt, top of Benton Range, SE1/4, sec. 32, T2S, R31E				Dalrymple (1965a)
whole-rock	3.30			
whole-rock	3.20			
whole-rock	3.41			
Topaz Lake Quartz Monzonite along Highway 108, Sonora Pass area				Gromme (1965)
biotite	83.0			
	83.6			
hornblende	84.2			
Granodiorite, along Highway 108, Sonora Pass area				Gromme (1965)
biotite	87.0			
hornblende	90.1			
Lamarck Granodiorite, Mount Givens Granodiorite, alaskite of Evolution Basin, porphyritic biotite granite of Dinkey Lakes, east-central Sierra Nevada batholith				Hurley (1965)
whole-rock samples		90 \pm 10 (isochron)		

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
California (Cont'd)				
Pyroxene-quartz diorite, western Central Sierra Nevada Mtns.				Kistler (1965)
biotite	79			
hornblende	83			
Granodiorite of "Dinkey Creek type", western Central Sierra Nevada Mtns.				Kistler (1965)
{ biotite	97			
{ hornblende	115			
biotite	89			
{ biotite	89			
{ hornblende	109			
biotite	90			
{ biotite	83			
{ hornblende	92			
biotite	85			
{ biotite	83			
{ hornblende	88			
biotite	88			
Granodiorite of "Dinkey Creek type", NW cor., sec. 18, T9S, R25E				Kistler (1965)
{ biotite	92			
{ hornblende	91			
Porphyritic biotite granite, western Central Sierra Nevada Mtns.				Kistler (1965)
biotite	82			
Porphyritic biotite granite of Dinkey Lakes, NE cor., sec. 11, T9S, R26E				Kistler (1965)
biotite	83	82		
Mount Givens Granodiorite, western Central Sierra Nevada Mtns.				Kistler (1965)
{ biotite	87			
{ hornblende	86			
{ biotite	85			
{ hornblende	87			
biotite	82			
Sheared granodiorite of the Goddard pendant, western Central Sierra Nevada Mtns.				Kistler (1965)
biotite	86			

Ages Published in 1965

Rock type & Location Material Dated	Ages (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
California (Cont'd)				
Lamark Granodiorite, east side of Bishop Creek, S. of Cardinal Mine				Kistler (1965)
biotite	77			
hornblende	84			
Tungsten Hills Quartz Monzonite, east side of Bishop Creek, NE of Cardinal Mine				Kistler (1965)
biotite	76	75		
Tungsten Hills Quartz Monzonite, eastern Central Sierra Nevada Mtns.				Kistler (1965)
biotite	75			
biotite	74			
Round Valley Peak Granodiorite, 1/4 mi. NE of Rock Creek Lake				Kistler (1965)
{ biotite	87			
{ hornblende	84			
Wheeler Crest Quartz Monzonite near center of sec. 36, T6S, R31E				Kistler (1965)
biotite	81			
Wheeler Crest Quartz Monzonite, eastern Central Sierra Nevada				Kistler (1965)
{ biotite	69			
{ hornblende	96			
{ biotite	79			
{ hornblende	99			
Granodiorite of Coyote Flat, NW1/4, sec. 35, T8S, R32E				Kistler (1965)
biotite	88			
Rocks similar to Cathedral Peak Granite, eastern Central Sierra Nevada				Kistler (1965)
biotite	87	87		
biotite	81			
biotite	85			
Inconsonable Granodiorite, SW1/4, sec. 32, T9S, R32E				Kistler (1965)
{ biotite	87			
{ hornblende	98			

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
California (Cont'd)				
Tinemaha Granodiorite, eastern Central Sierra Nevada				Kistler (1965)
{biotite	78			
{hornblende	150			
{biotite	91			
{hornblende	170			
{biotite	131			
{hornblende (-60+100 mesh)	183			
{hornblende (-150+200 mesh)	180			
biotite	83			
Tinemaha Granodiorite (Santa Rita Flat pluton), Inyo Mtns.	93			Kistler (1965)
biotite				
Granodiorite of McMurry Meadows N1/2, sec. 9, T10S, R33E				Kistler (1965)
{biotite	104			
{hornblende	151			
Quartz Monzonite of Paiute Monument, Inyo Mtns.				Kistler (1965)
biotite	157			
biotite	154			
Quartz Monzonite of Papoose Flat, Inyo Mtns.				
biotite	75			
biotite	81			
Dacite boulder in Rose Canyon Shale, SW side of False Point, La Jolla quad.				DeLisle (1965)
zircon			230±25	
Dacite boulder in Poway Con- glomerate, Murray Canyon quarry, LaJolla quad.				DeLisle (1965)
zircon			257±25	
Rhyodacite boulder in Poway Con- glomerate, Murray Canyon quarry, LaJolla quad.				DeLisle (1965)
zircon (unscreened)			245±25	
zircon (-100 + 250 mesh)			242±25	
zircon (-250 mesh)			262±25	

Ages Published in 1965

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-Cr	Reference
California (Cont'd)				
Rhyodacite boulder in Poway Conglomerate, Murray Canyon quarry, La Jolla quad.				DeLisle (1965)
zircon (-100 + 200 mesh)			188±20	
zircon (-200 mesh)			186±20	
Quartzite boulder in Poway Conglomerate, Murray Canyon quarry, LaJolla quad.				DeLisle (1965)
zircon			2150±220	
Quartzite boulder in Poway Conglomerate, Murray Canyon quarry, LaJolla quad.				DeLisle (1965)
zircon			1450±145	
Metaquartzite boulder in Poway Conglomerate, Fenton gravel quarry, La Jolla quad.				DeLisle (1965)
zircon			2900±290	
Dacite, Sidewinder Volcanic Series, SW1/4, sec. 25, T7N, R4W, Victorville quad.				DeLisle (1965)
zircon (-100 + 200 mesh)			230±25	
zircon (-250 mesh)			248±25	
Rhyolite, Sidewinder Volcanic Series, C. sec. 23, T7N, R2W, Apple Valley quad.				DeLisle (1965)
zircon (+200 mesh)			267±25	
zircon (-200 mesh)			250±25	
Foliated metarhyolite, Hodge Volcanic Series, SW1/4, sec. 28, T9N, R3W, Barstow quad.				
zircon (+200 mesh)			225±25	
zircon (-200 mesh)			209±20	
Salmon Hornblende Schist, 40° 35'45"N, 122°48'00"W				Lanphere (1965a)
hornblende	182±10			

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
CALIFORNIA (Cont'd)				
Quartz monzonite, Papoose Flat pluton, (2,282, 900E) (605, 700N) Independence quad. biotite	81			Ross, 1965
Quartz monzonite, Papoose Flat pluton, (2,294, 700E) (599, 100N) Independence quad. biotite	75			Ross, 1965
Quartz monzonite, Santa Rita Flat pluton, (2,255, 500E) (596,800N) Independence quad. biotite zircon	123		160±20	Ross, 1965
Quartz monzonite, Paiute Monument pluton, (2,293, 400E) (553, 000N) Independence quad. biotite zircon	156		190±20	Ross, 1965
Quartz monzonite, Paiute Monument pluton, (2,281, 700E) (541,000N) Independence quad. biotite zircon	157		170±20	Ross, 1965
Quartz monzonite, Pat Keyes pluton, (2,292, 800E) (520, 200N) Independence quad. zircon			210±20	Ross, 1965
Bishop Tuff, quarry, NW1/4, sec. 4, T6S, R33E, Inyo Co. sanidine	0.736±0.07 0.754±0.08			Dalrymple (1965)
Bishop Tuff, roadcut near junction in sec. 34, T4S, R30E, Mono Co. sanidine	0.730±0.07 0.692±0.06			Dalrymple (1965)
Bishop Tuff, SE corner, sec. 28, T1S, R29E, Mono Co. sanidine	0.639±0.07 0.717±0.07			Dalrymple (1965)

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr Pb-α	Reference
California (Cont'd)		
Salmon Hornblende Schist, 40° 37'00"N, 122°58'30"W hornblende	286±12	Lanphere (1965 a)
Salmon Hornblende Schist, 40° 46'45"N, 123°02'45"W hornblende	273±11	Lanphere (1965 a)
Salmon Hornblende Schist, 40° 44'30"N, 122°59'45"W hornblende	270±10	Lanphere (1965 a)
Abrams Mica Schist, 40°36'15"N, 122°58'30"W muscovite	309±12	Lanphere (1965 a)
Abrams Mica Schist, 40°39'00"N, 122°56'30"W muscovite	329±13 329±13	Lanphere (1965 a)
Abrams Mica Schist, 40°37'00"N 122°56'45"W biotite	135±5	Lanphere (1965 a)
Granodiorite, Shasta Bally Batho- lith, 40°40'00"N, 122°47'15"W biotite hornblende	132±5 128±5	Lanphere (1965 a)
Granodiorite, Rock Hill Stock, T19S, R27E, Tulare Co. biotite	128±5	Putman (1965)
Aplite, Rock Hill Stock, T19S R27E, Tulare Co. biotite	136±5	Putman (1965)
Granodiorite, sec. 31, T18S, R27E Tulare Co. biotite	109±4	Putman (1965)
Metachert in serpentinite, 1 mi. N. of Lindsay, Tulare Co. tremolitic amphibole	307±30	Putman (1965)

Ages Published in 1965

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
CALIFORNIA (Cont'd)				
Rhyolite, Mono Craters (Hill 8044)				Evernden, 1965
sanidine		.056		
sanidine		.049		
Rhyolite (?), Craters Mt., Mono Craters				Evernden, 1965
sanidine		.005		
Diorite, Russian Peak Batholith, Klamath Mtns.				Davis, 1965
biotite		140		
Granodiorite, Russian Peak Batholith, Klamath Mtns.				Davis, 1965
biotite		137		
Trondhjemite, Caribou Mountain Stock, Klamath Mtns.				Davis, 1965
biotite		133		
Diorite (?), Deadman Peak stock, Klamath Mtns.				Davis, 1965
biotite		127		
Diorite (?), Horseshoe Lake stock, Klamath Mtns.				Davis, 1965
biotite		127		
Colorado				
Mount Rosa Granite, approx. 38° 44'50"N, 104°57'W				Gross (1965)
zircon			1110±125	
Mount Rosa Granite, NE of Rosemont				Gross (1965)
riebeckite		1040		
Vitrophyric welded tuff NE side of Threemile Creek, T51N, R8E, Chaffee Co.				Van Alstine (1965)
glass		34±3		
biotite		34±3		

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-Cr	
Colorado (Cont'd)				
Granites, gneisses, and grano- diorites, central Colorado 15 whole-rocks		1650±35 (isochron)		Wetherill (1965)
Quartz Creek Granite, near Indian Head, sec. 4, T50N, R3E, Gunnison Co. whole-rock & constituent minerals		1384±20 (isochron)		Wetherill (1965)
Granite, 15 mi. S. of junction of U. S. 50 and Colorado 114 whole-rock & constituent minerals		1356±25 (isochron)		Wetherill (1965)
Granite, 7.1 mi. NE of Almont on Colorado 135 whole-rock & constituent minerals		1397±35 (isochron)		Wetherill (1965)
Granite, approx. 5 mi. S. of Brown Derby Mine on U. S. 50, Gunnison Co. whole-rock & constituent minerals		1275±30 (isochron)		Wetherill (1965)
Quartz Creek pegmatite, SE1/4, sec. 32, T50N, R3E, Gunnison Co. muscovite whole-rock		1250 1395		Wetherill (1965)
Quartz Creek pegmatite NE1/4, sec. 32, T50N, R3E, Gunnison Co. biotite K-feldspar		1366 1437		Wetherill (1965)
Quartz Creek pegmatite SW1/4, sec. 20, T50N, R3E, Gunnison Co. biotite (weathered)		1031		Wetherill (1965)
Quartz Creek pegmatite, SE1/4, sec. 20, T50N, R3E, Gunnison Co. biotite muscovite K-feldspar		1129 1384 1390		Wetherill (1965)
Quartz Creek pegmatite ("Bucky"), E1/2, sec. 22, T50N, R3E, Gunnison Co. biotite K-feldspar		{ 1465 1434 1444 1433		Wetherill (1965)

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Connecticut</u>				
Maromas Granite Gneiss, eastern Connecticut				Brookins (1965)
whole-rocks (two)		285 (isochron)		
Glastonbury Gneiss, eastern Connecticut				Brookins (1965)
whole-rocks (four)		355 (isochron)		
Amphibolite and schist, Middle-town Formation, eastern Connecticut				Brookins (1965)
whole-rocks (two)		440 (isochron)		
Ammonoosuc Volcanics (rhyolites, gneiss, and schist) eastern Connecticut				Brookins (1965)
whole-rocks (four)		418 (isochron)		
Monson Gneiss, eastern Connecticut				Brookins (1965)
whole-rocks (two)		472 (isochron)		
Monson Gneiss and granite dikes, eastern Connecticut				Brookins (1965)
whole-rocks (four)		418(?) (isochron)		
Pegmatite cutting Fly Pond Member of Tatnic Hill Fm., 0.45 mi. N30°W of Leffingwell School, Fitchville quad.				Zartman (1965a)
monazite			300±40	
Pegmatite in gabbro, quarry on S. side of Owunnegunset Hill, Willimantic quad.				Zartman (1965a)
biotite	236±12	215±15		
muscovite	244±12	300±55		
Pegmatite cutting Fly Pond Member of Tatnic Hill Fm., 0.15 mi. NW of Cote Pond, Norwich quad.				Zartman (1965a)
zircon			500±60	
monazite			300±40	
Pegmatite in gabbro, 0.3 mi. NW of intersection of Route 87 & Oliver Rd., Willimantic quad.				Zartman (1965a)
muscovite	244±12	280±30		
biotite	228±11	215±15		
Canterbury Gneiss, 0.45 mi. S 48°W from top of Hearthstone Hill, Norwich quad.				Zartman (1965a)
zircon			290±30	

Ages Published in 1965

Rock type & location Material dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Connecticut (Cont'd)</u>				
Canterbury Gneiss, 0.1 mile NW of hairpin curve of Round Brook, south-central ninth, Fitchville quad. WR isochron		405±20		Zartman (1965a)
Canterbury Gneiss, near top of 672-foot hill, Wells Woods, Columbia quad. WR isochron		405±20		Zartman (1965a)
Canterbury Gneiss, quarry 0.5 mi. W. of Little River and Fort Ned Pond, Scotland quad. WR isochron		405±20		Zartman (1965a)
Canterbury Gneiss, quarry in SW Pomfret, Hampton quad. WR isochron		405±20		Zartman (1965a)
Gabbro gneiss (Gabbro of Lebanon), Parson Brook 0.5 mi. North of Scott Hill road, central ninth, Fitchville quad. hornblende biotite	343±17	195±40		Zartman (1965a)
Gabbro of Lebanon, on S. side of Commons Hill, 0.5 mi. W. of Route 89, SW ninth, Willimantic quad. biotite	240±12	195±60		Zartman (1965a)
Granitic gneiss (Gabbro of Lebanon), S. side of Pigeon Swamp, south-central ninth, Willimantic quad. biotite	234±12	220±15		Zartman (1965a)
Gabbro of Lebanon, north side of Obwebetuck Hill, center of Willimantic quad. hornblende	285±14			Zartman (1965a)
Quartz monzonite gneiss, 0.15 mi. SW of Brewster Pond, Colchester quad. WR isochron		405±20		Zartman (1965a)
Quartz monzonite gneiss, 0.2 mi. NNW of Route 207 & Levita Road, Columbia quad. WR isochron		405±20		Zartman (1965a)

Ages Published in 1965

Rock type & location Material dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Connecticut (Cont'd)</u>				
Quartz monzonite gneiss, SW ninth, Columbia quad.				Zartman (1965a)
WR isochron		405±20		
Quartz monzonite gneiss, quarry 0.2 mi. NW of Route 207 & Levita Rd. south-central ninth, Columbia quad.				Zartman (1965a)
muscovite	240±12			
WR isochron		405±20		
M, F, WR isochron		285±15		
Pegmatite cutting Quinebaug Fm., western part of Willimantic				Zartman (1965a)
muscovite		245±10		
Carbonatite vein cutting Quinebaug Fm., quarry east of Windham Airport, north- central ninth, Willimantic quad.				Zartman (1965a)
biotite	252±13	215±15		
Pegmatite, Strickland quarry				Brookins (1965a)
whole rock (?) <i>isochron</i>		255		

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>IDAHO</u>				
Syenite of the Ramey Ridge Complex, Idaho Batholith hornblende	93			Pecora, 1965
Basalt, 3500ft N, 4100 ft W of SEC, sec. 27, T4S, R10E, Bennett Mountain Quad., Elmore Co. whole rock	1.3			Evernden, 1965
Microsyenite dike, T12N, R29E, Willow Creek, Beaverhead Range biotite	441 ± 15			Ramspott, 1965
<u>Illinois</u>				
Granite from H.O.Carr #1 Vedovell well, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T20N, R10E, Lee Co. biotite	630 (too young?)			Bradbury, 1965
Granite from A.C.Otto #1 Swenson well, NE $\frac{1}{4}$ sec. 1, T36N, R5E, LaSalle Co. biotite	1260			Bradbury, 1965
<u>Maine</u>				
Bottle Lake Quartz Monzonite, 45° 20'N, 68°05'W biotite	342			Larrabee (1965)
Quartz monzonite near Center Pond, 45°22'N, 68°27'W biotite K-feldspar	349		350±100	Larrabee (1965)

Ages Published in 1965

Rock type & location Material dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
<u>Massachusetts</u>				
Gneiss (Ayer Granite), quarry east side Millstone Hill, SE ninth, Worcester North quad. muscovite WR isochron	245 \pm 12	360 \pm 10 345 \pm 15		Zartman (1965a)
Gneiss (Ayer Granite), quarry top of Millstone Hill, SE ninth, Worcester North quad. WR isochron		345 \pm 15		Zartman (1965a)
Gneiss (Ayer Granite), 0.17 mi ESE of Bolton Station, east-central ninth, Clinton quad. biotite zircon	250 \pm 13		410 \pm 50	Zartman (1965a)
Gneiss (Ayer Granite), 0.2 mi inside west end of Wachusett-Marlboro Tunnel, Clinton quad. zircon			420 \pm 50	Zartman (1965a)
Gneiss (Ayer Granite), 0.8 mi inside west end of Wachusett-Marlboro Tunnel, Clinton quad zircon			520 \pm 60	Zartman (1965a)
Northbridge Granite Gneiss, near Northbridge and Uxbridge whole rock isochron of 7 samples of Moorbath, MIT		535 \pm 20		Castle (1965)
Dedham Granodiorite, south of Boston whole rock isochron of 4 samples of Ramo, MIT		558 \pm 20		Castle (1965)
Gneiss (Ayer Granite), 0.35 mi. W of top of Wigwam Hill, SE ninth, Worcester North quad. WR isochron		345 \pm 15		Zartman (1965a)

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
<u>Michigan</u>				
Pegmatite, Peavy Complex, NE1/4, sec. 28, T42N, R31W, Iron Co.				Aldrich (1965)
biotite	1100	1300		
muscovite	1280	1680		
K-feldspar	970	1680		
Granite, Peavy Complex, Hill 1403, sec. 19, T42N, R31W, Iron Co.				Aldrich (1965)
biotite	1330	1370		
muscovite	1240	1680		
K-feldspar	1150	1630		
Metapyroxenite, Peavy Complex, sec. 21, T42N, R31W, Iron Co.				Aldrich (1965)
hornblende	1800			
Gabbro pegmatite, West Kiernan Sill, sec. 17, T43N, R31W, Iron Co.				Aldrich (1965)
hornblende	1540			
Granite, NW1/4, NE1/4, sec. 28, T43N, R32W, Iron Co.				Aldrich (1965)
biotite	1250	1420		
Granite, NE1/4, sec. 21, T42N, R32W, Iron Co.				Aldrich (1965)
biotite	1160	1290		
Pegmatite, Pink Rock Quarry, SE1/4, SE1/4 sec. 19, T42N, R29W, Dickinson Co.				Aldrich (1965)
biotite	1220	1420		
muscovite	1510	1810		
K-feldspar	1160	1710		
Pegmatite, Black Rock Quarry, SW1/4, SE1/4 sec. 30, T42N, R29W, Dickinson Co.				Aldrich (1965)
biotite	1240	1350		
muscovite	1350	1880		
muscovite	1620	1690		
K-feldspar		1900		
Banded gneiss, Black Rock Quarry, SW1/4, SE1/4, sec. 30, T42N, R29W, Dickinson Co.				Aldrich (1965)
biotite	1240	1380		
hornblende	1680			

Ages Published in 1965

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
Michigan (Cont'd)				
Granite dike in Vulcan Iron Fm., NW1/4, NW1/4, sec. 33, T42N, R28W, Dickinson Co. biotite	1570	1620		Aldrich (1965)
Granite dike in Randville Dolo- mite, quarry, SW1/4, sec. 26, T42N, R28W biotite K-feldspar	1580 1120	1570 1650		Aldrich (1966)
Schist (Michigamme Slate), Peavy Dam, sec. 32, T42N, R31W, Iron Co. biotite muscovite	1240 1140	1350		Aldrich (1965)
Amphibolite (Michigamme Slate), near Peavy Dam, sec. 32, T42N, R31W, Iron Co. hornblende	2500			Aldrich (1965)
Schist (Michigamme Slate, Animikie Series), SE1/4, sec. 35, T41N, R32W, Iron Co. biotite	1100	1310		Aldrich (1965)
Amphibolite cutting Hemlock(?) Fm., sec. 6, T41N, R31W, Iron Co. hornblende	1580			Aldrich (1965)
Animikie Series				
Amphibolite (Hemlock Fm/) sec. 6, T41N, R31W, Iron Co. hornblende	1570			Aldrich (1965)
Micaceous schist (Michigamme Slate, Animikie Series), sec. 21, T41N, R28W, Dickinson Co. biotite	1360	1490		Aldrich (1965)
Micaceous schist (Michigamme Slate, Animikie Series), sec. 20, T41N, R28W, Dickinson Co. biotite muscovite	1340 1480	1570 1620		Aldrich (1965)

Ages Published in 1965

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
Michigan (Cont'd)				
Schist (Michigamme Slate, Animikie Series) NW1/4, NW1/4, sec. 16, T41N, R31W, Iron Co. biotite	1280	1390		Aldrich (1965)
Schist (Michigamme Slate, Animikie Series) SW1/4, sec. 26, T41N, R30W, Dickinson Co. biotite	1230	1310		Aldrich (1965)
Slate (Michigamme Slate, Animikie Series), Cayia Mine in sec. 26, T43N, R32W, Iron Co. whole rock	1440	1210±200		Aldrich (1965)
Micaceous rock (Randville Dolomite, Animikie Series), NW1/4, sec. 35, T42N, R29W, Dickinson Co. biotite muscovite	1440 1450	1590 1740		Aldrich (1965)
Muscovite schist (Sturgeon Quartzite, Animikie Series), sec. 31, T42N, R29W, Dickinson Co. muscovite	1150	2020		Aldrich (1965)
Banded gneiss, SW1/4, sec. 26, T42N, R29W, Dickinson Co. biotite hornblende	1420 1730	1540		Aldrich (1965)
Granite gneiss, Carney Lake Complex, SE1/4, sec. 23, T40N, R29W, Dickinson Co. biotite K-feldspar	1360 1170	1390 2300		Aldrich (1965)
Granite gneiss, C. sec. 22, T41N, R30W, Dickinson Co. biotite K-feldspar	1160 1150	1110 1570		Aldrich (1965)
Gneiss, SE1/4, sec. 18, T44N, R31W, Iron Co. biotite	1370	1590		Aldrich (1965)

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
<u>Michigan (Cont'd)</u>				
Granite gneiss, NE1/4, NE1/4, sec. 7, T43N, R28W, Dickinson Co. K-feldspar	910	2390		Aldrich (1965)
Pegmatite, NE1/4, sec. 7, T46N, R29W, Dickinson Co. muscovite	1760	1840		Aldrich (1965)
Diabase dike, NE1/4, sec. 29, T42N, R28W, Dickinson Co. whole rock	960			Aldrich (1965)
<u>Montana</u>				
Crevasse Mtn. Granite, Jardine- Crevasse Mtn. Mining district, Park Co. muscovite	1820			Brown (1965)
K-feldspar	1180 (too low)	2700		
whole-rock				
muscovite-biotite- microcline			1900 (mineral isochron)	
Vitrophyre unit, Lowland Creek Volcanics, N1/2, sec. 5, T3N, R8W biotite	50 \pm 2			Smedes (1965)
Welded-tuff unit, Lowland Creek Volcanic, SEC, sec. 33, T3N, R9W biotite	48 \pm 2			Smedes (1965)
<u>Nevada</u>				
Quartz monzonite, S1/2, NW1/4, sec. 18, T26S, R68E (Kinsley Stock) zircon			60	Sayyah (1965)
zircon			65	
biotite	52			
Quartz latite porphyry, SW1/4, NW1/4, sec. 18, T26S, R68E (Kinsley Stock) zircon			40	Sayyah, (1965)
biotite	35.1			

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u> (Cont'd)				
Granite, sec. 34, T16N, R32E, Sand Springs Range biotite	79.6±2.0			Schilling (1965) (1965)
Granodiorite, SW1/4, sec. 11, T15N, R31-1/2E, Sand Springs Range biotite	76.0±2.0			Schilling (1965) (1965)
Pegmatite, sec. 4, T15N, R32E, San Springs Range biotite	66±4			Schilling (1965)
Pegmatite, NE1/4, sec. 9, T15S, R71E muscovite	1370±140			Schilling (1965) Beal (1965)
Andesite, SW1/4, sec. 20, T22N, R64E, near Boulder City biotite	13±2			Schilling (1965)
Andesite, SW1/4, sec. 27, T25S, R64E, near Nelson biotite	15±2			Schilling (1965)
Granodiorite, NW1/4, sec. 4, T23S, R64E biotite-hornblende	16±2			Schilling (1965)
Granite, NE1/4, sec. 28, T26S, R64E, south of Nelson biotite	26 ⁺⁴ ₋₂			Schilling (1965)
Quartz monzonite, T37N, R53E, at the Lone Wolf Mine biotite	12±20 [?]			Schilling (1965)
Quartz monzonite, NE1/4, sec. 5, T30N, R53E, Pinon Range, Railroad Mining District biotite	33 ⁺⁵ ₋₂			Schilling (1965)
Pegmatite, southern Ruby Mtns. lepidolite		140-175		Schilling (1965)

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u> (Cont'd)				
Quartz monzonite, NE1/4, sec. 13, T28N, R57E, Ruby Mtns, 3 miles east of Harrison Pass biotite	26 ⁺⁴ -2			Schilling (1965)
Pegmatite, Wood Hills, Elko Co. (?)	41.5			Schilling (1965)
Pegmatite, Wood Hills, Elko Co. (?)	29.8			Schilling (1965)
Syenite, SW1/4, sec. 36, T29N, R65E, Dolly Varden Mtns. biotite-hornblende	125 ⁺¹⁹ -6			Schilling (1965)
Quartz monzonite, SE1/4, sec. 21, T28N, R68E, Whitehorse Mtn. biotite with (10% hornblende)	140 ⁺²¹ -7			Schilling (1965)
Pegmatite, Mineral Ridge, 5 miles NW of Silver Peak, Esmeralda Co. lepidolite		620-700		Schilling (1965)
Quartz monzonite, NW1/4, sec. 34, T5S, R38E, Palmetto Wash biotite	153±5			Schilling (1965)
Quartz monzonite, southern part of Sylvania Mtns, Esmeralda Co. biotite	155±8			Schilling (1965)

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u> (Cont'd)				
Quartz monzonite, SW1/4, sec. 21, T29N, R50E, Cortez Range biotite	125 ⁺¹⁹ ₋₆ 145 ⁺²² ₋₇			Schilling (1965)
Diorite, NW1/4, sec. 11, T28N, R49E, Cortez Range Impure hornblende	150 ⁺²³ ₋₈			Schilling (1965)
Granodiorite, Mill Canyon Stock, SW1/4, sec. 21, T27N, R48E, Cortez Range biotite	124 ⁺¹⁸ ₋₆	(average of 4 runs 115 to 140 m.y.)		Schilling (1965)
Granodiorite, Mill Canyon Stock, Cortez Range, Eureka Co. biotite	147			Schilling (1965)
Quartz monzonite, NW1/4, sec. 1, T20N, R52E, north of Devils Gate muscovite with (10% biotite)	165 ⁺²⁵ ₋₈			Schilling (1965)
Granodiorite, SW1/4, sec. 22, T19N, R53E, near Eureka Impure biotite	64 ⁺¹⁰ ₋₃			Schilling (1965)
Quartz monzonite, 0.5 mile W of Austin, Lander Co. biotite	140 ⁺²¹ ₋₇			Schilling (1965)
Granodiorite, sec. 1, T13N, R32E, south end of Sand Springs Range biotite biotite	87.5±1 83.6±3.5			Schilling (1965) (1965a)

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
Nevada (Cont'd)				
Quartz monzonite, sec. 23(?), T6N, R35E, Spearmint Canyon, Pilot Mtns, Mineral Co. biotite	68.7±1.8			Schilling (1965)
Quartz monzonite, SE1/4, sec. 5, T11N, R58E, White Pine Mtns. biotite with (15% hornblende)	27 ⁺⁴ -2 31 ⁺⁵ -2			Schilling (1965)
Quartz monzonite, sec. 36, T12N, R57E, White Pine Mtns. biotite	36 ⁺⁵ -2			Schilling (1965)
Quartz monzonite, Troy Stock, SW1/4, sec. 29, T6N, R57E, Grant Range biotite	23 ⁺⁴ -2			Schilling (1965)
Quartz monzonite, Climax composite Stock, T8S, R53E, Oak Springs mining district biotite	93 (average of 6 determinations)			Schilling (1965)
Gabbro, NW1/4, SW1/4, SW1/4, sec. 24, T26N, R32E, West Humboldt Range Titanobiotite	150±3			Schilling (1965)
Quartz monzonite Kingsley Stock, SW1/4, sec. 18, T26N, R68E, Kingsley Mtns. biotite with (10% hornblende)	35 ⁺⁵ -2			Schilling (1965)
Quartz monzonite, Kingsley Stock, Kingsley Mtns, White Pine Co. zircon				Schilling (1965)

41

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u> (Cont'd)				
Quartz monzonite, NW1/4, sec. 31, T23N, R63E, White Pine Co. biotite	32 ⁺⁵ ₋₂			Schilling (1965)
Granite, NW1/4, sec. 9, T20N, R63E, Egan Range biotite	38 ⁺⁶ ₋₂			Schilling (1965)
Quartz monzonite, NE1/4, sec. 27, T18N, R63E (Heuser Peak pluton) biotite	32 ⁺⁵ ₋₂			Schilling (1965)
(zircon)		(30±10) (Adair 1960)		
Quartz monzonite, Kern Mtn pluton, SE1/4, sec. 33, T22N, R69E muscovite with (10% biotite)	42 ⁺⁶ ₋₂			Schilling (1965)
Quartz monzonite, Seligman Stock, SE1/4, sec. 16, T16N, R57E altered biotite	110 ⁺¹⁷ ₋₆			Schilling (1965)
(zircon)		(128±15) (Adair 1960)		
Quartz monzonite, 1/4 mile W of Kimberly, White Pine Co. orthoclase	123±12			Schilling (1965)
Rhyolite, Ely mining district, White Pine Co. (?)	41±5			Schilling (1965)

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u> (Cont'd)				
Quartz monzonite, Osceola Stock, SW1/4, sec. 28, T14N, R68E, Snake Range impure biotite	125 ⁺¹⁹ ₋₆			Schilling (1965)
	105 ⁺¹⁶ ₋₅			
(zircon)		(170±20) (Adair 1960)		
Quartz monzonite, Wheeler Peak Pluton, sec. 28, T13N, R68E, Snake Range biotite	89 ⁺¹³ ₋₄			Schilling (1965)
	100 ⁺¹⁵ ₋₅			
(zircon)		(145±20) (Adair 1960)		
Quartz monzonite, Lexington Creek Stock, NW1/4, sec. 2, T11N, R69E, Snake Range muscovite	64 ⁺¹⁰ ₋₃			Schilling (1965)
(zircon)		(225±25) (Adair 1960)		
Tuff in Horse Spring Fm., SW1/4, sec. 8, T15S, R67E, Clark Co. biotite-hornblende	23±3			Schilling (1965)
Tuff in Horse Spring Fm., sec. 17, T15S, R67E, Clark Co. biotite	23			Schilling (1965)
Tuff in Willow Tank Fm., S1/2, sec. 36, T17S, R66E, Clarke Co. biotite	90.4±[2.7]			Schilling (1965)
Jarbridge Rhyolite, along Meadow Creek, Rowland 15' quad, Elko County sanidine	16.8±0.5			Schilling (1965)

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u> (Cont'd)				
Tuff in Chicken Creek Fm., sec. 11, T42N, R51E, Elko Co.				Schilling (1965)
biotite	35.2±1			
Deadhorse Tuff, south edge, sec. 30, T45N, R58E				Schilling (1965)
biotite	39±1			
sanidine	40±1			
Deadhorse Tuff, Jarbidge 15' quad, Elko Co.				Schilling (1965)
biotite	39.9			
Tuff, SE1/4, sec. 34, T31N, R53E, Railroad mining district, Elko Co.				Schilling (1965)
biotite	22 ⁺³ -2			
Tuff, SW1/4, sec. 23, T30N, R49E, Granite Hills, Eureka Co.				Schilling (1965)
biotite with (5% hornblende)	27 ⁺⁴ -2			
Tuff from Needles Range Fm., NE1/4, sec. 27, T1S, R68E, Condor Canyon, Lincoln Co.				Schilling (1965)
biotite	26 ⁺⁴ -2			
Tuff from Spearhead Member of the Thirsty Canyon Tuff, southern Nye Co.				Schilling (1965)
sanidine	7.5			
Thirsty Canyon Tuff, southern Nye Co.				Schilling (1965)
(?)	6.5-7.5 (several determinations)			
Timber Mountain Tuff, southern Nye Co.				Schilling (1965)
(?)	10.5-11.5 (several determinations)			
Paintbrush Tuff, southern Nye Co.				Schilling (1965)
(?)	12.5-13.5 (several determinations)			

page 34

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
Nevada (Cont'd)				
Tuffs in the Wahmonie and Salyer Fms., southern Nye Co. (?)	13-14(several determinations)			Schilling (1965)
Belted Range Tuff, southern Nye Co. (?)	13.5-14.5(several determinations)			Schilling (1965)
McClellan Peak Basalt, Mustang, Washoe Co. whole-rock	1.14±0.04			Schilling (1965)
Tuff in the Sacramento Pass Volcanics, SW1/4, sec. 3, T14N, R69E, Snake Range, White Pine Co. impure hornblende- biotite	27 ⁺⁴ -2			Schilling (1965)
Welded tuff in the Garrett Ranch volcanic group, Egan Range, White Pine Co. (?)	34			Schilling (1965)
Frenchman Mtn. Schist, SW1/4, sec. 24, T20S, R62E, Clark Co. biotite	1450 ⁺²²⁰ -70 1300 ⁺²⁰⁰ -70			Schilling (1965)
Metasediment, north end of Ruby - East Humboldt Range, Elko Co. (?)	18.6			Schilling (1965)
Gneiss, SE1/4, sec. 9, T32N, R58E, Lamoille Canyon, Ruby Mtns, Elko Co. biotite	25 ⁺⁴ -2			Schilling (1965)

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
Nevada (Cont'd)				
Gneiss, NE1/4, sec. 1, T31N, R58E, Lamoille Canyon, Ruby Mtns, Elko Co. biotite	29 ⁺⁴ -2			Schilling (1965)
Metamorphosed Dunderburg Shale (Cambrian), Wood Hills, Elko Co. whole-rock(?)	42.4			Schilling (1965)
Slate, NW1/4, sec. 3, T17N, R66E, McCoy Creek, Schell Creek Range, White Pine Co. impure muscovite- biotite	39 ⁺⁶ -2			Schilling (1965)
Schist, NW1/4, sec. 28, T16N, R70E, Snake Range, White Pine Co. muscovite	27 ⁺⁴ -2			Schilling (1965)
	34 ⁺⁵ -2			
Gneiss, NW1/4, sec. 11, T15N, R70E, Snake Range, White Pine Co. impure muscovite- biotite	40 ⁺⁶ -2			Schilling (1965)
	34 ⁺⁵ -2			
Harmony Formation (Late Cambrian), Battle Mtn., Humboldt Co. detrital zircon			680	Schilling (1965)
Wall rock at Kimberly, Ely mining district, White Pine Co. hydrothermal(?) biotite	121			Schilling (1965)
Welded tuff in Upper Cedarville Fm., NE1/4, sec. 35, T43N, R18E, Washoe Co. plagioclase	19.8(may be too high)			Schilling (1965)

Ages Published in 1965

Rock type & location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u> (Cont'd)				
Pegmatite, sec. 33, T16N, R32 E, Sand Springs Range biotite (chloritized)	31.5±3.0	(maybe too young)		Schilling (1965) (1965a)
Hiko Tuff, SE1/4, sec. 6, T7S, R62E, near Alamo, Lincoln Co. biotite-hornblende	24 ⁺⁴ -2			Schilling (1965)
Tuff above Sheep Pass Fm., Center sec. 34, T10N, R58E, Grant Range, Nye Co. biotite	30 ⁺⁵ -2			Schilling (1965)
	36 ⁺⁵ -2			
Tuff from Needles Range Fm., NW1/4, sec. 4, T8N, R59E, Grant Range, Nye Co. biotite	26 ⁺⁴ -2			Schilling (1965)
Granite Mountain Stock, northern Shoshone Range zircon			50±10	Gilluly (1965a)
Quartz monzonite, Mill Canyon Stock, N. slope of Cortez Mtns. biotite	151 147	(mentioned by Armstrong, 1963, but not listed in this tabulation)		Gilluly (1965)
Rhyolite welded tuff (?), Cactano Tuff, northern Toiyabe Range (?)	31.5	(seems too old)		Gilluly (1965)
Rhyolite, Fye Canyon, sec. 19, T25N, R481/2E biotite	36.8			Gilluly (1965)

Rock type or formation Material Dated	K-Ar	Rb-Sr	Pb-α	Reference
<u>Nevada (Cont'd)</u>				
Amphibolite, north Virgin Mtns., (southeast Nevada) hornblende	1650			Wasserburg (1965)
Gneiss, north Virgin Mtns. (southeast Nevada) Total rock K-feldspar biotite	1390	1620 1597		Wasserburg (1965)
Pegmatitic, north Virgin Mtns., (southeast Nevada) K-feldspar I K-feldspar II		1360 1455		Wasserburg (1965)
Pegmatite, Snowflake Mine, Gold Butte area K-feldspar muscovite biotite	910 1385 1390	1707 1610 1353		Wasserburg (1965)
Pegmatite, Nevada Mica Mine, Gold Butte area muscovite K-feldspar	1185 785	1335 1682		Wasserburg (1965)
Rapakivi granite, Gold Butte area K-feldspar biotite		1032 822		Wasserburg (1965)
Rapakivi granite, Gold Butte area K-feldspar		1031		Wasserburg (1965)
Pegmatite in rapakivi granite, Gold Butte area K-feldspar		1061		Wasserburg (1965)
Quartz monzonite, E1/2, NW1/4, sec. 18, T26S, R68E (Kinsley Stock) zircon			60	Sayyah (1965)
Quartz monzonite, S1/2, NE1/4, sec. 18, T26S, R68E (Kinsley Stock) zircon			66	Sayyah (1965)

Ages Published in 1965

Rock type & location Material dated	K-Ar	Age (m.y.) Rb-Sr Pb-α	Reference
Nevada (Cont'd)			
Granodiorite, 0.3 mi. S. of Indian reservation boundary on Route 11A, Mountain City quad., Elko Co.	90	110±20	Coats (1965)
biotite			
zircon			
Granodiorite, near Contact, U.S. 93 at Salmon Falls Creek, Elko Co.	152	160±20	Coats (1965)
biotite			
zircon			
Granodiorite, underpass at Silver Zone Pass, U. S. 40, Elko Co.	148	180±20	Coats (1965)
biotite			
zircon			
Granodiorite, Skull Creek, Owyhee quad., coord. N. 2, 612, 500, E. 381,000, Elko Co.	81	70±20	Coats (1965)
biotite			
zircon			
Granodiorite, Harrison Pass, Ruby Mtns., Elko Co.	34	40±10	Coats (1965)
biotite			
zircon			
Granodiorite, Bearpaw Mtn. pluton, SE1/4, NE1/4, SE1/4, sec. 20, T47N, R57E, Elko Co.	73	100±20	Coats (1965)
biotite			
zircon			
Granodiorite, roadcut at McDonald Creek, coord. N. 2, 612, 550, E. 449, 550, Elko Co.	88	130±20	Coats (1965)
biotite			
zircon			
Granodiorite, NE1/4, SE1/4, NE1/4, sec. 7, T.55N, R.53E, Elko Co.	38	40±10	Coats (1965)
biotite			
zircon			
Quartz monzonite wash, SW1/4, NW1/4, sec. 18, T26S, R68E(?)		39 44	Sayyah (1965)
zircon			
zircon			

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.)		Pb- α	References
	K-Ar	Rb-Sr		
<u>North Carolina</u>				
Gneiss, Ore Knob Mine near Jefferson, Ashe Co.				Kinkel, 1965
biotite (footwall)	335	310		
biotite (hanging wall)	345	320		
Gangue, Ore Knob Mine, near Jefferson, Ashe Co.				Kinkel, 1965
biotite	435	320		
biotite	465	320		
hornblende	1120			
Pegmatite, Jones Mine near Zirconia, Henderson Co.				Overstreet, 1965
zircon			280 \pm 30	
zircon			300 \pm 45	
Cherryville Quartz Monzonite, Muddy Creek, Cleveland Co.				Overstreet, 1965
monazite			260	
Toluca Quartz Monzonite, 0.8 mile NW of Toluca, Cleveland Co.				Overstreet, 1965
monazite			320	
Toluca Quartz Monzonite, Acre Rock Quarry, Cleveland Co.				Overstreet, 1965
zircon			440	
Pegmatite, Acre Rock Quarry, Cleveland Co.				Overstreet, 1965
zircon			425	
zircon			435	
monazite			380	
monazite			375	
zircon			455	
Toluca Quartz Monzonite, Hollis Quarry, Rutherford Co.				Overstreet, 1965
monazite			375	
Toluca Quartz Monzonite, 3.2 miles S of Dysartville, McDowell Co.				Overstreet, 1965
zircon			300	

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr Pb- α	References
<u>North Carolina (Cont'd)</u>		
Gneiss, 2.6 miles SSE of Hollis, Rutherford Co. zircon monazite	355 400	Overstreet, 1965
Biotite schist, 2 miles NE of Lawndale, Cleveland Co. zircon monazite zircon	420 390 395	Overstreet, 1965
Biotite schist, 2.4 miles S of Hopewell, Rutherford Co. monazite	395	Overstreet, 1965
Biotite schist, 1 mile NE of Boiling Springs, Cleveland Co. monazite	415	Overstreet, 1965
Henderson Gneiss, 1.4 miles E of Chimney Rock, Rutherford Co. zircon	355	Overstreet, 1965
Whiteside Granite, Highlands, Macon Co. Monazite	370	Overstreet, 1965
Whiteside Granite, 5 miles W of Highlands, Macon Co. Monazite monazite zircon	415 440 710	Overstreet, 1965
Biotite schist, 6.3 miles E of Franklin, Macon Co. zircon zircon	620 590	Overstreet, 1965
Whiteside Granite, 3.75 miles W of Cashiers, Jackson Co. monazite zircon	360 670	Overstreet, 1965

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-d	
<u>North Carolina (Cont'd)</u>				
Granite, Isenhour Quarry, Cabarrus Co.				Overstreet, 1965
zircon			445±50	
zircon			360±40	
zircon			430±50	
zircon			300±35	
Syenite dike, Isenhour Quarry, Cabarrus Co.				Overstreet, 1965
zircon			450±50	
Gneissic granodiorite, Isenhour Quarry, Cabarrus Co.				Overstreet, 1965
zircon			505±55	
zircon			495±55	
zircon			380±100	
zircon			470±55	
Mica schist, at bridge, 2.6 miles NE of Bessemer City, Gaston Co.				Overstreet, 1965
zircon			490	
Syenite, quarry 2.5 miles S of Concord, Cabarrus Co.				Overstreet, 1965
zircon			305	
zircon			540	
Sericite schist of Battleground Schist, 1.5 miles SE of the Pinnacle, Gaston Co.				Overstreet, 1965
zircon			980±110	

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
<u>Oregon</u>				
Rhyolite sill in Dothan Formation SE1/4, NW1/4, sec. 36, T40S, R14W whole-rock	30 \pm 1			Dott (1965)
Mafic dike, NW1/4, NE1/4, sec. 5, T39S, R14W whole-rock	28 \pm 1			Dott (1965)
Granite boulders in Dothan (?) Formation, NE1/4, SE1/4, sec. 14, T16N, R2W biotite (chloritized)	103 \pm 10 110 \pm 25			Dott (1965)
Quartz-mica schist, Colebrooke Formation, NW1/4, NW1/4, sec. 20, T33S, R14W whole-rock	125 \pm 6			Dott (1965)
Quartz-mica schist, Colebrooke Formation, NE1/4, NE1/4, sec. 3, T36S, R13W whole-rock	138 \pm 10			Dott (1965)
Mafic dike, SW1/4, SE1/4, sec. 34, T36S, R14W amphibole	130 \pm 15			Dott (1965)
Pearse Peak Diorite, NW1/4, SW1/4, sec. 15, T33S, R14W biotite biotite	141 \pm 7 145 \pm 4			Dott (1965)
Pearse Peak Diorite, NE1/4, NE1/4, sec. 27, T33S, R14W hornblende	275 \pm 20 (seemingly too high)			Dott (1965)
Rhyolite in Dotham Formation, SE1/4, SW1/4, sec. 20, T39S, R13W whole-rock	149 \pm 4			Dott (1965)
Collier Butte Diorite, Collier Butte, T37S, R12W hornblende	151 \pm 12			Dott (1965)
Saddle Mt. Diorite, 1.5 mi. WNW of Saddle Mt. T37S, R12N hornblende	285 \pm 25 (seemingly too old)			Dott (1965)
Mafic dike in shear zone, SE1/4, NW1/4, sec. 3, T39S, R14W whole-rock	215 \pm 5 (seemingly too old)			Dott (1965)

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.) K-Ar	Rb-Sr	Pb-α	References
<u>SOUTH CAROLINA</u>				
Pegmatite, 4 miles E of Tigerville, Greenville Co. zircon			255±30	Overstreet, 1965
zircon			270±30	
zircon			260±30	
Yorkville Quartz Monzonite 1.7 miles SSE of Henry Knob, York Co. zircon			260	Overstreet, 1965
Granite, 0.5 mile W of Lowrys, Chester Co. zircon			255±30	Overstreet, 1965
Granite, Leeds Lookout Tower, Chester Co. zircon			460±50	Overstreet, 1965
Granite, 5.5 miles S20°W of Winnsboro, Fairfield Co. zircon			270±30	Overstreet, 1965
Granite, 1.1 miles N of White Oak Creek, Kershaw Co. zircon			245±30	Overstreet, 1965
Granite, near Watts, Abbeville Co. zircon (nonmagnetic) zircon (magnetic)			565±65 505±55	Overstreet, 1965
Biotite gneiss, 4.5 miles E of Iva, on Abbeville and Anderson county line zircon			550±60	Overstreet, 1965
Granite, 0.9 miles SW of Blackjack, Fairfield Co. zircon			260±30	Overstreet, 1965

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Tennessee</u>				
Ore zone, Ducktown biotite	1200			Kinkel (1965)
Gangue, 35°03'N, 84°22'W, Boyd Mine, Ducktown hornblende	387			Kinkel (1965)
Gangue, 35°03'N, 84°22'W, Calloway Mine, Ducktown hornblende	1045			Kinkel (1965)
Hornblendite (drill core), 35° 03'N, 84°22'W, Eureka Mine, Ducktown hornblende	478			Kinkel (1965)
<u>Texas</u>				
Valley Spring Gneiss, Llano Uplift 4 whole-rock samples		1120±25 (isochron)		Zartman (1965)
<u>Utah</u>				
Granodiorite, SE1/4, sec. 33, T6N, R19W, Patterson Pass, Pilot Range, Box Elder Co. biotite	31			Coats (1965)
zircon			30±10	
Schist in Red Creek Quartzite, sec. 6, T2N, R25E, Jesse Ewing Canyon muscovite	1520	2320		Hansen (1965)
Pegmatite in Red Creek Quartzite, sec. 35, T3N, R24E, east shoulder of Mountain Home muscovite	1550			Hansen (1965)

Ages Published in 1965

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
Utah (Cont'd)				
Bentonite, Carmel Formation, sec. 32, T40S, R17W, Washington Co. biotite	165	85±50 (too low)		Marvin (1965)
Bentonite, Carmel Formation, sec. 30, T41S, R7W, Kane Co. biotite	162	163±10		Marvin (1965)
biotite	151	163±15		
biotite		148±15 (too low?)		
Bentonite, Carmel Formation, NE1/4, sec. 3, T24S, R17E, Grand Co. biotite	(too low?) 154	163±10		Marvin (1965)
Bentonite, Carmel Formation, sec. 11, T24S, R16E, Emery Co. biotite	(too low?) 140	147±15 (too low?)		Marvin (1965)
Massive granite, Raft River Range, 41°57'N, 113°22'W whole rock		2430		Sayyah (1965)
Metamorphosed granite, Raft River Range, 47°57'N, 113°21'W whole rock		3732 (appears too old)		Sayyah (1965)
Soda syenite porphyry, SW1/4, sec. 14, T26S, R24E, La Sal Mtns. aegerine-augite	25.5±2.5			Stern (1965)
Monzonite porphyry, SW1/4, sec. 15, T26S, R24E, La Sal Mtns. aegerine-augite	22.5±3.3			Stern (1965)
Diorite porphyry, SE1/4, sec. 5, T26S, R24E, La Sal Mtns. hornblende	54.8±1.5 (xenocrysts?)			Stern (1965)
Amphibole, Beaver Dam Mtns. (southwest Utah) hornblende	1660			Wasserburg (1965)
Pegmatite, Beaver Dam Mtns., (southwest Utah) K-feldspar		1500		Wasserburg (1965)
Granodiorite, Beaver Dam Mtns., (southwest Utah) biotite		1379		Wasserburg (1965)

Ages Published in 1965

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>Virginia</u>				
Granodiorite gneiss, Marys Rock Tunnel, Skyline Drive, Shenandoah National Park microcline		980±90		Doe (1965)
Granodiorite gneiss, Hogback Ridge Skyline Drive, Shenandoah National Park microcline		980±90		Doe (1965)
Gangue from ore zone, Gossan Lead (Monarat) Mine, SW Virginia muscovite	430	310		Kinkel (1965)
Gangue from ore zone, London- Virginia Mine, central Virginia biotite	300			Kinkel (1965)
Gangue from ore zone, Sulphur Mine, north central Virginia biotite-muscovite	365			Kinkel (1965)
hornblende	330			
Gangue from ore zone, Arminius Mine, North-central Virginia biotite	305			Kinkel (1965)

Ages Published in 1965

Rock type and location Material analyzed	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
<u>Wisconsin</u>				
Granite, SW1/4, SE1/4, sec. 8, T38N, R20E, Marinette Co.				Aldrich (1965)
biotite	1220	1350		
muscovite	1350	1500		
K-feldspar	1070	1530		
Quartz diorite, SE1/4, NE1/4, sec. 18, T38N, R20E, Marinette Co.				Aldrich (1965)
biotite	1370	1350		
hornblende	1580			
Amphibolite in Quinnesec Fm., near SEC, sec. 15, T38N, R18E, Florence Co.				Aldrich (1965)
biotite	1340	1360		
hornblende	1360			
<u>Wyoming</u>				
Sandstone, Rock Springs Fm (Upper Cretaceous), sec. 22, T12N, R105W Sweetwater Co.				Houston (1965)
zircon			770 \pm 80	
Sandstone, Frontier Fm (Upper Cretaceous), sec. 18, T18N, R116W, Uinta Co.				Houston (1965)
zircon			80 \pm 15	

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Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Alabama</u>				
Quartzose sand, Meridian Sand, (Eocene), north central Clarke Co.				Wermund (1966)
muscovite	308±6			
Quartzose sand, Meridian Sand, (Eocene) northeast Clarke Co.				Wermund (1966)
muscovite	290±6			
Diorite gneiss core, Capital #1 Gholston, sec. 18, T14N, R22E, Bullock Co.				Muehlberger (1966)
biotite	290			
<u>Alaska</u>				
Monzonite(?), Purcell Mountain Pluton, 66°15'30"N, 156°30'W				Miller (1966)
biotite	98.6±2.9			
Monzonite, Selawick Hills Pluton, 66°09'N, 160°09'W				Miller (1966)
hornblende	100±5			
Granodiorite, north shore of Passage Canal, 60°50'N, 148°29'W				Lanphere, 1966
biotite	36.6±1.0			
Granodiorite, east shore of Esther Lake, 60°50'N, 148°03'W				Lanphere, 1966
biotite	35.5±0.9			
Quartz diorite, east shore of Eshamy Lake, 60°27'N, 148°06'30"W				Lanphere, 1966
biotite	36.2±1.0			
hornblende	34.4±1.2			
Quartz monzonite, south shore of Deep Water Bay, 60°29'30"N, 148° 23'W				Lanphere, 1966
biotite	36.1±0.9			

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)		Reference
	K-Ar	Rb-Sr Pb- α	
Alaska (Cont'd)			
Andesite (?), 66°14'N, 154°25'W biotite	134±5		Patton (1966)
Granodiorite (?), 66°01'N, 154°06'W hornblende	81.5±3.0		Patton (1966)
Granodiorite (?), 66°07'N, 155°55'W hornblende	81.9±3.0		Patton (1966)
Gneiss, Rainbow Mtn-Gulkana Glacier area biotite	149 (dating a Mesozoic thermal event)		Ragan (1966)
Granodiorite clast in Kotsina Conglomerate, Valdez (C-1) quad., 61°44'00"N, 144°02'50"W biotite	157±6		Grantz (1966)
Microdiorite dike, Valdez (C-1) quad., 61°44'03"N, 144°03'02"W hornblende	142±5		Grantz (1966)
Granodiorite, McCarthy (C-8) quad., 61°32'45"N, 143°42'30"W hornblende	141±5		Grantz (1966)
Granodiorite, Gulkana (A-2) quad., 62°03'09"N, 144°34'40"W biotite	126±4		Grantz (1966)
Monzonite (?), Indian Mountain Pluton, 66°01'N, 154°06'W hornblende	81.5±3.0		Miller, (1966)
Monzonite(?), Zane Hills Pluton 66°07'30"N, 155°55'W hornblende	81.9±3.0		Miller (1966)
Monzonite(?), Wheeler Creek Pluton, 66°20'N, 157°37'30"W biotite	80.6±2.0		Miller (1966)
Monzonite(?), Shinililaok Creek Pluton, 66°21'N, 157°16'W biotite	99.4±2.4		Miller (1966)

Rock type & Location Material Dated	Age (m.y.)		Fb-α	Reference
	K-Ar	Rb-Sr		
<u>ALASKA</u> (Cont'd)				
Basalt, St. George village, St. George Island, Pribilof Islands whole-rock	1.95±0.10			Cox, 1966
Basalt, cliffs W of St. George village, St. George Island, Pribilof Islands whole-rock	1.92±0.08 1.99±0.08			Cox, 1966
Basalt, cliffs W of St. George village, St. George Island, Pribilof Islands whole-rock	1.83±0.09 1.89±0.08			Cox, 1966
Basalt, near Tolstoi Point, St. George Island, Pribilof Islands whole-rock	2.13±0.06			Cox, 1966
Basalt, near Tolstoi Point, St. George Island, Pribilof Islands whole-rock	1.77±0.07 1.80±0.06			Cox, 1966
Basalt, Tolstoi Point, St. George Island, Pribilof Islands whole-rock	2.06±0.08			Cox, 1966
Basalt, Tolstoi Point, St. George Island, Pribilof Islands whole-rock	2.09±0.08			Cox, 1966
Basalt, near Tolstoi Point, St. George Island, Pribilof Islands whole-rock	2.14±0.08			Cox, 1966
Basalt, near Tolstoi Point, St. George Island, Pribilof Islands whole-rock	1.92±0.06			Cox, 1966
Basalt, near Tolstoi Point, St. George Island, Pribilof Islands whole-rock	1.81±0.07			Cox, 1966
Basalt, Gull Hill, St. George Island, Pribilof Islands whole-rock	1.59±0.06			Cox, 1966

Ages Published in 1966

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>ALASKA</u> (Cont'd)				
Basalt, Einahnuhto Bluffs, St. Paul Island, Pribilof Islands whole-rock	0.096±0.10 0.065±0.10 0.200±0.10			Cox, 1966
Basalt, Einahnuhto Bluffs, St. Paul Island, Pribilof Islands whole-rock	0.28±0.10 0.36±0.10			Cox, 1966
Basalt, near Tolstoi Point, St. Paul Island, Pribilof Islands whole-rock	<0.1			Cox, 1966
Basalt, S of Sea Lion Point, St. George Island, Pribilof Islands whole-rock	2.19±0.10			Cox, 1966
Basalt, NW of Ulakaia Hill, St. George Island, Pribilof Islands whole-rock	2.10±0.06			Cox, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Arizona</u>				
Quartz diorite, Patagonia Mtns., 31°23.2'N, 110°43.1'W biotite	63.9±2.0			Damon (1966)
Granodiorite, Santa Rita Mtns., 31°42.9'N, 110°52.2'W biotite	67.9±2.1			Damon (1966)
Quartz monzonite, Twin Buttes area, 31°55'N, 111°02'W biotite	53.5±1.9			Damon (1966)
Altered rock, Esperanza Pit, 31°52.0'N, 111°07.7'W phlogopite	62.6±2.0			Damon (1966)
Muscovite-quartz veinlet, Esperanza Pit, 31°52.0'N, 111°07.7'W muscovite	60.6±1.8			Damon (1966)
Granodiorite, Twin Buttes area, 31°53.95'N, 111°06.95'W biotite	58.7±1.8			Damon (1966)
Pegmatite, 31°59.1'N, 111°07.8'W muscovite	50.7±1.1			Damon (1966)
Granodiorite, 32°17.67'N, 111°09.77'W biotite	72.9±2.2			Damon (1966)
Granophyre, Tucson Mtns, 32°17.63'N, 111°09.77'W biotite	75.1±2.2			Damon (1966)
Granite, Tucson Mtns., 32°16.37'N, 111°12.37'W biotite	71.4±3.3 avg.			Damon (1966)
Granodiorite, Roskrige Mtns, 32°13.10'N, 111°20.62'W biotite	68.6±2.2			Damon (1966)

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Arizona</u> (Continued)				
Quartz monzonite, Slate Mtns., 32°32.6'N, 111°53.2'W biotite	65.9±6.6			Damon (1966)
Quartz monzonite, Bagdad open pit, 34°35.0'N, 113°12.5'W biotite	70.9±2.3			Damon (1966)
Quartz monzonite, Mineral Park Pit, 35°22.70'N, 114°08.55'W phlogopite	71.5±2.6			Damon (1966)
Quartz monzonite, Lone Star District, Graham Co. plagioclase and sericite	62.4±2.3			Damon (1966)
Pegmatite, New Cornelia Pit, 32°21.52'N, 112°52.00'W biotite	63.1±2.2			Damon (1966)
Quartz monzonite, Dripping Springs Mtns., 33°08.6'N, 110°53.9'W biotite	71.1±3.2			Damon (1966)
Shultze Granite, west of Miami 33°23.00'N, 111°54.17'W biotite	57.8±1.8			Damon (1966)
Igneous, San Juan Stock, Lone Star Mining District, Graham Co. biotite (?)	58			Robinson (1966)
Igneous, Lone Star Stock, Lone Star Mining District, Graham Co. biotite (?)	58			Robinson (1966)
Alteration zone, Safford ore body, Lone Star Mining District, Graham Co. quartz-sericite	53			Robinson (1966)

Ages Published in 1966

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
ARIZONA (Cont'd)				
Cat Mountain Rhyolite, Tucson Mtns., Pima Co., 32°12'56"N, 111°05'57"W K-feldspar	70.3±2.3			Bikerman, 1966
Cat Mountain Rhyolite, Tucson Mtns., Pima Co., 32°13'35"N, 111°05'08"W K-feldspar	65.6±2.8			Bikerman, 1966
Rhyolite, Tucson Mtns., Pima Co., 32°09'23"N, 111°02'54"W biotite	60.5±1.8			Bikerman, 1966
Shorts Ranch Andesite, Tucson Mtns., Pima Co., 32°12'26"N, 111°00'38"W biotite	56.8±1.7			Bikerman, 1966
Turkey Track Porphyry, Tumamoc Hill, Tucson Mtns., Pima Co., 32°12'28"N, 110°59'56"W plagioclase	28.0±2.6			Bikerman, 1966
Basaltic andesite, Tumamoc Hill, Tucson Mtns., Pima Co., 32°12'56"N, 110°08'06"W whole rock	27.0±1.2			Bikerman, 1966
Basaltic andesite, Tumamoc Hill, Tucson Mtns., Pima Co., 32°12'30"N, 110°59'19"W whole rock	25.2±5.8			Bikerman, 1966
Tuff, Tumamoc Hill, Tucson Mtns., Pima Co., 32°12'32"N, 110°59'19"W K-feldspar + glass K-feldspar	13.1±0.8 26.6±0.9			Bikerman, 1966
Basaltic andesite, Tumamoc Hill, Tucson Mtns., Pima Co., 32°12'47"N, 111°00'20"W whole rock	19.8±3.0			Bikerman, 1966
Amole Quartz Monzonite, Tucson Mtns., Pima Co., 32°17'40"N, 110°09'45"W biotite	72.9±2.2			Bikerman, 1966

Ages Published in 1966

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
ARIZONA (Cont'd)				
Amole Granophyre, Tucson Mtns., Pima Co., 32°17'38"N, 111°09'46"W biotite	75.1±2.2			Bikerman, 1966
Amole Granite, Tucson Mtns., Pima Co., 32°16'22"N, 111°12'34"W biotite	71.4±3.3			Bikerman, 1966
Rillito Andesite, Tucson Mtns., Pima Co., 32°19'34"N, 111°08'22"W biotite	38.5±1.3			Bikerman, 1966
Safford Tuff, Tucson Mtns., Pima Co., 32°19'43"N, 111°08'21"W biotite	25.2±1.4			Bikerman, 1966
Contzen Pass Unit, Tucson Mtns., Pima Co., 32°19'43"N, 111°08'06"W biotite	26.0±1.2			Bikerman, 1966
Andesite (Upper), Tucson Mtns., Pima Co., 32°19'28"N, 111°07'37"W biotite	27.9±1.9			Bikerman, 1966
Dacite (Safford Dacite Neck), Tucson Mtns., Pima Co., 32°20'44"N, 111°08'55"W biotite	24.5±0.9			Bikerman, 1966

Ages Published in 1966

Rock type & location Material dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
California				
Obsidian (very fresh), SW1/4, sec. 6, T4S, R29E, near Whitmore Hot Springs				Doell(1966)
obsidian	0.28±0.03			
Basalt, SE1/4, sec. 8, T15N, R21E, near McClellan Peak				Doell (1966)
basalt	1.14±0.04			
Olivine latite, SW1/4, SE1/4, sec. 11 T17N, R16E, near Polaris				Doell (1966)
olivine latite	1.64±0.05			
Andesite, NE1/4, SE1/4, sec. 21, T16N, R17E, Watson Creek				Doell (1966)
andesite	2.46±0.07			
Basalt, SW1/4, SE1/4, sec. 9, T4S R27E, near Mammoth Mine				Doell (1966)
basalt	3.04±0.09			
basalt	3.08±0.1			
Basalt, SE1/4, SW1/4, sec. 20, T2S, R31E, Benton Range				Doell (1966)
basalt	3.32±0.07			
Basalt, 1500 meters S47°E from B.M. 7069, Kaiser Peak quad.				Doell (1966)
basalt	3.46±0.10			
basalt	3.52±0.11			
Pyroxene quartz diorite, Academy Granite Quarry 36°54'N, 119°31'W				Kistler (1966)
biotite	113			
hornblende	121			
plagioclase	105			
augite	96			
hypersthene	48			
Sentinel Granodiorite, Washburn Point, Yosemite Natl. Park, 37° 43'N, 119°34'W				Kistler (1966)
biotite	90			
biotite	89			
hornblende	90			
orthoclase	88			
plagioclase	81			
augite	78			

Ages Published in 1966

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
CALIFORNIA (Cont'd)			
Andesite, Lower Cedarville Fm., center of sec. 19, T43N, R16E plagioclase	40.0±3.0		Axelrod, 1966
Quartz diorite, Junipero Serra pluton, NW1/4, NW1/4, SW1/4, sec. 12, T21S, R5E, Cone Peak quad. biotite	70.2		Compton, 1966
biotite	69.0		
Granofels, summit of Cone Peak, Cone Peak quad. biotite	75.0		Compton, 1966
Granodiorite, 38°10'24"N, 123°3'30"W Bodega Head, Sonoma County hornblende	92		Compton, 1966
Two Teats Quartz latite, Mono Co. boundary NW of Deadman Pass biotite	2.74±0.1		Curry, 1966
plagioclase	2.70±0.1		
Augen gneiss, 36°14'N, 116°56'W biotite	14		Stern (1966)
Augen gneiss, 36°14'N, 116°57'W biotite	11		Stern (1966)
Felsitic dike, 36°14'N, 116°56'W zircon		50±10	Stern (1966)
Monzonite porphyry boulder, 36° 12'N, 116°58'W(?) K-feldspar	12		Stern (1966)
zircon		20±10	
Quartz monzonite, 36°16'N, 116° 57'W K-feldspar	14		Stern (1966)
zircon		30±10	
Tuff (Obispo Fm.), quarry near center sec. 31 (proj.), T12N, R14E plagioclase	20.9±1.5		Hall (1966)
Andesite-dacite porphyry, Morro Rock, east face, T29S, R10E plagioclase	23.5±1.8		Hall (1966)

Ages Published for 1966

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>Colorado</u>				
Pegmatite, 1/2 mi. NNE of Rosemont, Teller Co.				Gross (1966)
zircon			1135±125	
zircon			1580±175	
Pegmatite, 2-1/4 mi. WNW of Rose- mont, Teller Co.				Gross (1966)
zircon			2400	
Pegmatite, 1-1/2 mi. NE of Rosemont, Teller Co.				Gross (1966)
zircon			1140±130	
zircon			1460±165	
Pegmatite, 3/4 mi. ENE of Rosemont, Teller Co.				Gross (1966)
zircon			2100±235	
zircon			1810±205	
Pegmatite, 1/2 mi. NW of Rosemont, Teller Co.				Gross (1966)
thorite			120±15	
thorite			130±15	
Pegmatite, Mount Rosa area				Gross (1966)
zircon			855±95	
zircon			1480±165	
Pegmatite, 2 mi. WNW of St. Peters Dome, El Paso Co.				Gross (1966)
zircon			320	
			300	
zircon			525±60	
Pegmatite, 2 mi. W of St. Peters Dome, El Paso Co.				Gross (1966)
thorite			130±15	
thorite			150±20	
Pegmatite, 1-1/2 mi. S. of Kineo Mtn., El Paso Co.				Gross (1966)
zircon			630±70	

Ages Published in 1966

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
Colorado (Cont'd)				
Rhyolite welded tuff, Rabbit Ears Volcanics, C sec. 23, T2N, R79W sanidine	33±3			Izett (1966)
Porphyritic facies of Redskin Granite in Redskin stock, 39° 06'N, 105°25'W biotite microcline	980	950±50		Hawley (1966)
Greisen in Redskin Stock, 39° 06'N, 105°25'W muscovite	1020			Hawley (1966)
Granite-aplite facies in Boomer cupola, 39°04'30"N, 105°27'W muscovite microcline	990	915±50		Hawley (1966)
Greisen in Boomer Cupola, 39° 04'30"N, 105°27'W muscovite	1000			Hawley (1966)
Paragneiss in St. Kevin Granite opposite mouth of Glacier Creek, Holy Cross quad. Biotite Zircon	1240		1350±150	Pearson (1966)
Granodiorite facies of St. Kevin Granite, roadcut near mouth of Bush Creek, Holy Cross quad. Biotite Biotite Zircon whole-rock	1200 1210	1320±150	1505±170	Pearson (1966)
St. Kevin Granite, Carlton Tunnel dump, Holy Cross quad. Biotite K-feldspar	1230	1310±130		Pearson (1966)
Porphyritic facies of granite of Cross Creek, west of Tigiwon road, Minturn quad. biotite biotite zircon	1330 1340		1065±200	Pearson (1966)

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Colorado</u> (cont'd)				
Quartz-diorite facies of granite of Cross Creek, west of Tigiwon road, Minturn quad.				Pearson (1966)
biotite	1440			
zircon			1300±160	
Migmatite of granite of Cross Creek from roadcut S. of Homestake Creek, Minturn quad.				Pearson (1966)
biotite	1360			
zircon			1280±145	
Granodiorite on Missouri Creek Trail, Holy Cross quad.				Pearson (1966)
biotite	69			
biotite	69			
Paragneiss on Missouri Creek trail, Holy Cross quad.				Pearson (1966)
biotite	91			
biotite	89			
zircon			1405±160	
Paragneiss from roadcut near Camp Hale, Holy Cross quad.				Pearson (1966)
biotite	1350			
zircon			1170±130	
Hornblende at Gold Park, Holy Cross quad.				Pearson (1966)
biotite	1240			
hornblende	2020			
Paragneiss from Homestake Creek road, Holy Cross quad.				Pearson (1966)
biotite	1250			
biotite	1260			
zircon			1495±165	
Metalamprophyre from roadcut near Camp Hale, Holy Cross quad.				Pearson (1966)
biotite	1320			
Pegmatite, NW side of Mitchell Creek, Holy Cross quad.				Pearson (1966)
muscovite	1330			
muscovite	1340			

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
Colorado (cont'd)				
Pegmatite from roadcut near Mitchell and Piney Creeks, Holy Cross quad. muscovite	1360	1320±70		Pearson (1966)
Trachytoid hybrid facies of St. Kevin Granite, S. side of Longs Gulch, near Deckers Lake, Holy Cross quad. biotite muscovite K-feldspar	1200 1350	1260±60 1290±60 1430±130		Pearson (1966)
Granodiorite of Holy Cross City near S. end of Hunky Dory Lake, Holy Cross quad. biotite biotite zircon	1170 1180		1630±185	Pearson (1966)
Migmatite near Hunky Dory Lake, Holy Cross quad. biotite muscovite zircon	1200 1290		1365±155	Pearson (1966)
Mylonite on French Creek road, Holy Cross quad. whole rock whole rock	326 327			Pearson (1966)
St. Kevin Granite, SW side of St. Kevin Lake, Holy Cross quad. biotite zircon whole-rock	1300		1355±155 1390±130	Pearson (1966)
Trachytoid hybrid facies of St. Kevin Granite, head of Longs Gulch, Holy Cross quad. whole-rock		1390±100		Pearson (1966)
St. Kevin Granite from west portal of Hagerman Tunnel, Holy Cross quad. whole rock		1340±70		Pearson (1966)
Granodiorite facies of St. Kevin Granite, east face of Bald Eagle Mtn, Holy Cross quad. whole-rock		1380±130		Pearson (1966)

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
Colorado (cont'd)				
Granodiorite cuttings, Shell #2-B State, sec. 16, T8N, R53W, Logan Co. biotite		1250±60		Goldich (1966)
Adamellite cuttings, Shell #1 Olsen, sec. 21, T4N, R48W, Yuma Co. whole rock		1360±80		Goldich (1966)
Gneiss core, Rocky Mountain Arsenal test hole, sec. 26, T2S, R67W, Adams County. biotite	1390	1320±60		Goldich (1966)
Gneiss core, Shell #A-16 Green, sec. 30, T9N, R53W, Logan Co. K-feldspar		1510±140		Goldich (1966)
Gneiss core, Pan American #1, Ingram, sec. 4, T20S, R67W, Pueblo Co., muscovite		1300±60		Muehlberger (1966)
Gneiss core, Phillips #1-A, Johnson, sec. 25, T24S, R61W, Pueblo Co. whole rock		1600±80		Muehlberger (1966)
Gneiss core, Amerada #1-F State, sec. 16, T39N, R10E, Alamosa Co. biotite	1260			Muehlberger (1966)
Granite cuttings, Moran Brothers #1 Cramer, sec. 12, T33S, R50W, Baca Co. whole rock		1280±80		Muehlberger (1966)
Granite cuttings, Kerr-McGee and Phillips #1 Unit, sec. 8, T8S, R102W, Garfield Co. whole rock		1690±90		Muehlberger (1966)
Basalt, roadcut, 1/4-NW, sec. 31, T11S, R95W, Mesa Co. whole rock	9.7±0.5			Pecora, (1966)

Rock type and location Material analyzed	Age (m.y.) K-Ar	Rb-Sr	Pb-α	References
<u>Colorado (cont'd)</u>				
Silver Plume Granite (just north of Jamestown), Boulder, Co. muscovite Age probably reduced by thermal effects from nearby Tertiary stock (90 ft. from sample location.)		948±3		Solder (1966)
<u>CONNECTICUT</u>				
Staurolite-garnet schist, Walloomsac Formation, Bashbish Falls Quad., Litchfield Co., approx. 42°00'04"N, 73°26'15"W biotite muscovite	390	355±18		Zen, 1966
<u>Florida</u>				
Microdiorite core, Sun #1 Powell Land Co., sec. 11 T17S, R31E, Volusia Co. whole rock	480			Muehlberger, 1966
<u>HAWAII</u>				
Mauna Kawale rhyodacite, Waianae Range, Oahu. whole-rock biotite biotite hornblende hornblende + biotite hornblende + biotite feldspar groundmass	2.1±0.4 2.4±0.2 4.5±0.5 (too old) 4.4±1.5 (too old) 2.5±0.2 4.4±0.5 (too old) 2.6±0.5 2.3±0.4			Funkhouser, 1966
Basalt below Mauna Kuwale rhyodacite, Waiane Range, Oahu whole rock	2.6±0.5			Funkhouser, 1966
Dike cutting Mauna Kuwale rhyodacite, Waiane Range, Oahu whole rock	3.2±0.2 (too old)			Funkhouser, 1966
Basalt (?) overlying Mauna Kuwale rhyodacite, Waiane Range, Oahu plagioclase	4.3±1.1 (too old)			Funkhouser, 1966
Lava, Kaena Point (quarry), Oahu whole rock (?)	2.80±0.06			McDougall, 1966

Ages Published in 1966

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
IDAHO				
Latite, Challis Volcanics, Highway #93, 4m S of Salmon plagioclase	45.5±1.4			Axelrod, 1966
Welded rhyolite tuff, Challis Volcanics, Dewey gold mine, Thunder Mtn. District whole rock	49.0±2.0			Axelrod, 1966
Illinois				
Monzonite cuttings, Northern Illinois #1 E. Taylor, sec. 28, T43N, R3E, Boone Co. biotite	1370	1260		Lidiak, 1966
Granite cuttings, Paul Schulte #1 E. Wyman, sec. 35, T41N, R5E, DeKalb Co. biotite	1200	900		Lidiak, 1966
Granite cuttings, A. C. Otto #1 Swenson, sec. 1, T36N, R5E, LaSalle Co. biotite	640	600		Lidiak, 1966
Granite cuttings, Amboy #1 J. B. McElroy, sec. 30, T20N, R10E, Lee Co. biotite		1110 1140 ±60		Lidiak, 1966
Granite and rhyolite cuttings, H. O. Carr #1 Vedovell, sec. 35, T20N, R10E, Lee Co. biotite	1300	1200		Lidiak, 1966
Granite core, Ralph Davis #1 South, sec. 30, T16N, R1E, Henry Co. biotite K-feldspar	1400	1370±80		Lidiak, 1966
Granite cuttings, H. L. Kelly #1 Fullerton, sec. 19, T13N, R4W, Mercer Co. Biotite	1350	1230		Lidiak, 1966

Ages Published in 1966

Rock type and location	Age (m.y.)			References
Material analyzed	K-Ar	Rb-Sr	Pb-α	
<u>Indiana</u>				
Granite cuttings, Bethlehem Steel #1, sec. 28, T37N, R6W, Porter Co. K-feldspar		1340±80		Lidiak, 1966
Granite cuttings, Kokomo #1 Greentown, sec. 32, T24N, R5E, Howard Co. K-feldspar		1240±70		Lidiak, 1966
Granite cuttings, Ohio #1 May, sec. 12, T16N, R11E, Henry Co. K-feldspar		1090±50		Lidiak, 1966
Granite cuttings, Porter Gordon, #1 M. Doddridge, sec. 23, T15N, R13E, Wayne Co. K-feldspar		1080±50		Lidiak, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
<u>Iowa</u>				
Norite core, B-X Company Test #1, sec. 35, T97N, R37W, Clay Co. biotite (2305.5 ft)		1310±130		Lidiak, 1966
Granite core, B-X Company Test #1, sec. 35, T97N, R37W, Clay Co. biotite (2506.5 ft)		1280±70		Lidiak, 1966
Gneiss core, U. S. Geol. Survey #2A, Manson, sec. 29, T90N, R31W, Pocahontas Co. biotite (367 ft)	970	1130		Lidiak, 1966
biotite(458 ft)	720	1070		
Gabbro cuttings, Pioneer #1, Decorah Bakke, sec. 30, T98N, R7W, Winneshiek Co. biotite	1290	1130		Lidiak, 1966
Granite cuttings, Dubuque Packing Co. #5, sec. 24, T89N, R2E, Dubuque Co. biotite	1400	1360		Lidiak, 1966
Granite cuttings, E. I. du Pont de Nemours #5, sec. 22, T81N, R6E, Clinton Co. biotite	1280	1260		Lidiak, 1966
Granite, Iowa Oil Dev Co. #1, Wilson, sec. 25, T68N, R37W, Page Co. muscovite	1290	1240		Lidiak, 1966
biotite	1220	1230		
Gneiss, Zehr well, sec. 35, T90N, R32W, Pocahontas Co. muscovite		1090		Lidiak, 1966

Ages Published in 1966

Rock type and formation Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Kansas</u>				
Schist cuttings, Sinclair Prairie #2, Wallace Invest. Co., sec. 28, T11S, R39W, Wallace Co. whole rock	1080			Muehlberger, 1966
Granite cuttings, Texaco #1 Pierce, sec. 18, T14S, R38W, Wallace Co. K-feldspar		1510 \pm 100		Muehlberger, 1966
Granite cuttings, Alma #1 Watchorn, sec. 13, T15S, R33W, Logan Co. K-feldspar		1410 \pm 110		Muehlberger, 1966
Granite cuttings, Cities Service #4 "U" Smith, sec. 15, T10S, R16W, Rooks Co. biotite		1220 \pm 70		Muehlberger, 1966
Granite core, Frankfort #1 Kuck, sec. 8, T14S, R10W, Ellsworth Co. biotite whole rock	1200	1420 \pm 110		Muehlberger, 1966
Quartzite core, Shell #4 "A" Ehrlich, sec. 18, T16S, R13W, Barton Co. whole rock		1350 \pm 140		Muehlberger, 1966
Granite cuttings, Texas #1 Murdock, sec. 16, T2S, R13E, Nemaha Co. whole rock		1480 \pm 100		Muehlberger, 1966
Adamellite cuttings, Shar-Alan #1 Olson, sec. 15, T3S, R10E, Marshall Co. K-feldspar		1600 \pm 80		Muehlberger, 1966
Gneiss cuttings, Shawver-Armour #1 Budenbender, sec. 10, T6S, R8E, Pottawatomie Co. K-feldspar		1950 \pm 170		Muehlberger, 1966
Adamellite cuttings, Adair #1 Stoffer, sec. 1, T8S, R7E, Pottawatomie Co. K-feldspar		1350 \pm 70		Muehlberger, 1966
Hornfels cuttings, Arkansas Fuel #1 Martin, sec. 24, T8S, R4E, Riley Co. K-feldspar		1320 \pm 170		Muehlberger, 1966

Ages Published in 1966

Rock type and formation Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Kansas</u> (Cont'd)				
Adamellite cuttings, Francis-Kaiser #1 Dekat, sec. 29, T9S, R9E, Pottawatomie Co. whole rock		1550 \pm 100		Muehlberger, 1966
Adamellite cuttings, Francis-Kaiser #1 _x Unterberger, sec. 24, T9S, R8E, Pottawatomie Co. K-feldspar		1820 \pm 120		Muehlberger, 1966
Quartzite core, Leslie #1A McConnell, sec. 14, T16S, R9E, Morris Co. whole rock	1260	1400 \pm 90		Muehlberger, 1966
Granite cuttings, Stanolind #1 Veal, sec. 30, T17S, R7E, Morris Co. K-feldspar		1420 \pm 80		Muehlberger, 1966
Gneiss cuttings, Amerada #1 Lostutter, sec. 1, T20S, R7E, Chase Co. K-feldspar		1450 \pm 90		Muehlberger, 1966
Gneiss cuttings, Cities Service #1 Church, sec. 13, T23S, R5E, Butler Co. K-feldspar		1400 \pm 90		Muehlberger, 1966
Granite cuttings, Gulf-Gross #1 Williams-Forgy, sec. 11 T26S, R4E, Butler Co. biotite K-feldspar		1190 \pm 60 1240 \pm 160		Muehlberger, 1966
Granite core, Skelly #1 'A' Miles, sec. 30, T27S, R10W, Kingman Co. K-feldspar		1350 \pm 70		Muehlberger, 1966
Granite cuttings, Lario #13 'A' Wenrich, sec. 23, T32S, R2E, Sumner Co. K-feldspar		1340 \pm 120		Muehlberger, 1966
Granite boulder, Rose Dome, sec. 13, T26S, R15E, Woodson Co. K-feldspar		1220 \pm 70		Muehlberger, 1966
Granite core, Mobil #1 Cunningham, sec. 13, T34S, R37W, Stevens Co. whole rock		1260 \pm 70		Muehlberger, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr Pb-α	Reference
<u>Maine</u>		
Rhyolite, rhyolite-porphry and andesite (Eastport Formation) between Eastport and Perry 9 whole-rocks (isochron)	412±5	Bottino (1966)
Rhyolite and andesite (Hedgehog Formation volcanics) 5 miles south of Presque Isle (at Green Mt.) 9 whole rocks (isochron)	413±10	Bottino (1966)
<u>Maryland</u>		
Pegmatitic lenticles in quartzite from Setters Fm., Towson Dome, 3.5 mi. NE of Towson F isochron	425	Wetherill (1966)
Quartzite from Setters Fm., Towson Dome, 3.5 mi. NE of Towson muscovite	430	Wetherill (1966)
Gneiss, Sykesville Fm., roadcut 2.5 mi. S of U. S. 40 on U. S. 97 biotite muscovite	368 516	Wetherill (1966)
Pegmatite, Clarksville Dome, 0.3 mi. E of Daniels, Baltimore Co. F isochron	425	Wetherill (1966)
Pegmatite, Ellicott City pluton, NW edge of Thistle, Baltimore Co. M, F isochron	346	Wetherill (1966)
Pegmatite, Woodstock pluton, 1.5 mi. WSW of Guilford, Howard Co. M, F isochron	347	Wetherill (1966)
Pegmatite, Ellicott City pluton, Weber Quarry, Ellicott City F isochron	346	Wetherill (1966)
Quartz monzonite, Woodstock pluton(?), WR isochron	420	Wetherill (1966)

Ages Published in 1966

Rock type & location Material dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>Maryland (Cont'd)</u>				
Baltimore Gneiss, Towson Dome, Charles St. between Malvern & Chesapeake Avenue, Towson, Baltimore Co.				Wetherill (1966)
biotite	340	~300		
feldspar	307			
Baltimore Gneiss, Phoenix Dome at Piney Run, 0.5 mi. SW of Verona, Baltimore Co.				Wetherill (1966)
biotite	355	330		
Baltimore Gneiss, Woodstock Dome, railroad cut 1/4 mi W of Woodstock, Howard Co.				Wetherill (1966)
biotite	430	330		
Baltimore Gneiss, Towson Dome, south end of Cromwell Bridge, on Cub Hill Road, Baltimore Co.				Wetherill (1966)
biotite	290	~ 300		
Baltimore Gneiss (amphibolite), Woodstock Dome, railroad cut just east of Marriottsville, Howard Co.				Wetherill (1966)
hornblende	367			
diopside	328			
plagioclase	309			
Baltimore Gneiss (amphibolite), quarry, Gwynns Falls at West Baltimore St., Baltimore				Wetherill (1966)
hornblende	301			
hornblende	292			
Quartz monzonite, Woodstock pluton, Sylvan Dell Quarry, Granite, Baltimore Co.				Wetherill (1966)
biotite	295	~ 300		
Granodiorite, Ellicott City pluton, Weber Quarry, Ellicott City				Wetherill (1966)
biotite	315	~300		
hornblende	300			

Ages Published in 1966

Rock type & location Material dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
Maryland (Cont'd)				
Quartz monzonite, Guilford pluton, 1.5 mi. WSW of Guilford, Howard Co. biotite B, M, WR isochron WR isochron		~300 290 420		Wetherill (1966)
Quartz diorite gneiss, Norbeck pluton. Green Wood Knolls in Wheaton, Montgomery Co. hornblende	315			Wetherill (1966)
Quartz monzonite gneiss (Gunpowder Granite), Towson Dome, 0.2 mi. N of bridge over Gunpowder Falls on Route 147 K-feldspar		440		Wetherill (1966)
Amphibolite of Baltimore Gabbro Complex, NW edge of Thistle, Baltimore Co. hornblende	372			Wetherill (1966)
Olivine gabbro, Baltimore Gabbro roadcut 1.5 mi. SE of Ellicott City, Howard Co. pyroxene labradorite	702 580			Wetherill (1966)
Quartz monzonite, Woodstock pluton, quarry at Granite, Baltimore Co. WR isochron		420		Wetherill (1966)
Quartz diorite, Kensington pluton, quarry near Broad Branch Road & Davenport Ave., Washington, D. C. biotite biotite	385 350	~300		Wetherill (1966)
Pegmatite, corner of Falls Road & Clipper Mill Road, Baltimore muscovite M, F isochron	282	390		Wetherill (1966)
Pegmatite, below dam on Patapsco River below Ilchester M, F isochron		395		Wetherill (1966)

Ages Published in 1966

Rock type & location Material dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Maryland</u> (Cont'd)				
Pegmatite, Woodstock Dome, railroad cut 0.1 mi E. of Marriottsville, Howard Co. B, M, F isochron		345		Wetherill (1966)
Pegmatite, Clarksville Dome, road-cut, N side of Patapsco R., 0.3 mi. E. of Daniels, Baltimore Co. M, F isochron		425		Wetherill (1966)
Pegmatite, Clarksville Dome, road-cut, S side of Patapsco R. by dam at Daniels M isochron		425		Wetherill (1966)
Pegmatite, Woodstock Dome, roadcut on Tunnel Road 0.2 mi S of Henryton, Howard Co. M isochron		425		Wetherill (1966)
Pegmatite, Towson Dome F isochron		425		Wetherill (1966)
Pegmatite, Woodstock Dome, 0.7 mi. S of Henryton, Howard Co. F, microcline, albite isochron		342		Wetherill (1966)

Massachusetts

Emery deposit, Chester, Margarite Chlorite	300±30 <485		Hart (1966)
Rowe Schist, 1 mile west of Chester on Route 20 biotite	314±10		Hart (1966)
Savoy Schist, roadcut Route 20, Chester muscovite	331±10		Hart (1966)

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Michigan</u>				
? cuttings, McClure #2 State-Beaver Island, sec. 6, T37N, R10W, Charlevoix Co. biotite	1090	1040		Lidiak, 1966
Gneiss cuttings, St. Clair #1 Hurst, sec. 26, T5N, R16E, St. Clair Co. biotite	970	900		Lidiak, 1966
Gneiss(?) cuttings, Colvin #1 Voss, sec. 16, T1S, R7E, Washtenaw Co. biotite		840		Lidiak, 1966
Gneiss cuttings, Colvin #1 Meinzinger, sec. 12, T2S, R7E, Washtenaw Co. biotite		920		Lidiak, 1966

Ages Published in 1966

Rock type and location Material analyzed	K-Ar	Rb-Sr	Pb-α	Reference
<u>Minnesota</u>				
Argillite or slate from Mahnomen #2 pit, NW1/4, NW1/4, sec. 10, T46N, R29W, Cuyuma District whole rock			1750 (isochron)	Peterman (1966)
Phyllite or fine-grained schist from Mahnomen #1 pit, NW1/4, NE1/4, sec. 10, T46N, R29W, Cuyuma District whole rock			1460 (isochron)	Peterman (1966)
Argillite or phyllite from Maroco pit, NE1/4, NW1/4, sec. 4, T46N, R29W, Cuyuma District whole rock			1460 (isochron)	Peterman (1966)
Argillite or slate from Sagamore pit, N1/2, SW1/4, sec. 19, T46N, R29W, Cuyuma District whole rock			1750 (isochron)	Peterman (1966)
Phyllite, Maroco pit, NE1/4, NW1/4, sec. 4, T46N, R29W, Cuyuma District whole rock			1460 (isochron)	Peterman (1966)
Siltstone core (115'-120' interval), Clinker Lake, NE1/4, NW1/4, sec. 36, T47N, R29W, Cuyuma District whole rock			1750 (isochron)	Peterman (1966)
Siltstone core (158'-163' interval) Clinker Lake, SW1/4, NE1/4, sec. 36, T47N, R29W, Cuyuma District Whole rock			1460 (isochron)	Peterman (1966)
Siltstone core (140'-147' interval) Clinker Lake, SW1/4, NE1/4, sec. 36, T47N, R29W, Cuyuma District whole rock			1750 (isochron)	Peterman (1966)
Slates, NW1/4, SW1/4, sec. 34, T47N, R29W, Cuyuma District Whole rock (core--140'-150' interval) Whole rock (core--150'-160' interval)			1460 (isochron) 1460 (isochron)	Peterman (1966)

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
Minnesota (cont'd)				
Argillite, NE1/4, SE1/4, sec. 33, T47N, R29W, Cuyuma District				Peterman (1966)
Whole rock (core--90'-100' interval)	1550	1750 (isochron)		
Whole rock (core--150'-160' interval)		1750 (isochron)		
Argillite, NE1/4, SE1/4, sec. 33, T47N, R29W, Cuyuma District				Peterman (1966)
Whole rock (core--105'-115' interval)		1750 (isochron)		
Whole rock (core--180'-200' interval)		1750 (isochron)		
Argillite or slate, NE1/4, SE1/4, sec. 33, T47N, R29W, Cuyuma District				Peterman (1966)
Whole rock (core--100'-110' interval)	1580	1750 (isochron)		
Whole rock (core--180'-200' interval)		1750 (isochron)		
Argillite or slate, NE1/4, SE1/4, sec. 33, T47N, R29W, Cuyuma District				Peterman (1966)
Whole rock (core--80'-100' interval)		1750 (isochron)		
Whole rock (core--180'-200' interval)	1470	1750 (isochron)		
Argillite core (Virginia Argillite) 20'-25' interval, sec. 5, T58N, R17W				Peterman (1966)
whole rock		1570 (isochron)		
Argillite (Virginia Argillite), Lake Mine, Mesabi District				Peterman (1966)
whole rock		1570 (isochron)		
Argillite core (Virginia Argillite), 162'-171' interval, SW1/4, NE1/4, sec. 4, T54N, R26W				Peterman (1966)
whole rock		1570 (isochron)		

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
Minnesota (Cont'd)				
Argillite core (Virginia Argillite) NE1/4, SW1/4, sec. 13, T142N, R25W, whole rock		1570 (isochron)		Peterman (1966)
Argillite (Rove Slate), NW1/4, SW1/4, sec. 30, T65N, R3W whole rock		1570 (isochron)		Peterman (1966)
Graywacke-slate (Thomson Fm.), NW1/4, SW1/4, sec. 17, T49N, R15W whole rock whole rock		1570 (isochron) 1570 (isochron)		Peterman (1966)
Phyllite, (Thomson Fm.), SWC of SE1/4, sec. 31, T130N, R29W whole rock		1570 (isochron)		Peterman (1966)
Slate (Thomson Fm.), quarry, sec. 5, T48N, R16W whole rock		1570 (isochron)		Peterman (1966)
Phyllite (Thomson Fm.), sec. 1, T46N, R19W whole rock		1570 (isochron)		Peterman (1966)
Schist (Thomson Fm.), NE1/4, sec. 20, T46N, R19W whole rock		1570 (isochron)		Peterman (1966)
Residual clay from Morton Gneiss, near North Redwood biotite biotite biotite biotite	1940 1860 1830 1840	610 490 570		Goldich, 1966a
Morton Quartz Monzonite Gneiss, quarry, SW-1/4, sec. 20, T113N, R35W, Redwood Co. biotite	2510	2410		Goldich, 1966a

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Missouri</u>				
Diorite core, St. Joseph Lead Co. #1 St. Francisville, sec. 5, T65N, R6W, Clark Co. biotite	1500	1470		Muehlberger, 1966
Aplite core, St. Joseph Lead Co. #1 St. Francisville, sec. 5, T65N, R6W, Clark Co. K-feldspar		1110 \pm 80		Muehlberger, 1966
Metadacite core, St. Joseph Lead Co., sec. 6, T50N, R7W, Audrain Co. whole-rock	1240			Muehlberger, 1966
Pegmatite core, St. Joseph Lead Co., sec. 6, T50N, R7W, Audrain Co. muscovite whole rock	1400	1460 \pm 70		Muehlberger, 1966
Diorite core, National Lead X-1 Wentzville, sec. 34, T48N, R1E, St. Charles Co. biotite	1400			Muehlberger, 1966
Granite core, Leclède Gas Co. #3 Lange, sec. 7, T47N, R7E, St. Louis Co. K-feldspar		1330 \pm 70		Muehlberger, 1966
Rhyolite core, St. Joseph Lead Co., sec. 25, T45N, R2E, Franklin Co. whole rock		1260 \pm 60		Muehlberger, 1966
Rhyolite (mine wall), Pea Ridge Mine, sec. 8, T39N, R1W, Washington Co. whole rock		1290 \pm 60		Muehlberger, 1966
Aplite (mine wall), Pea Ridge Mine, sec. 8, T39N, R1W, Washington Co. K-feldspar		1310 \pm 70		Muehlberger, 1966
Granite, sec. 14, T35N, R2E, Washington Co. biotite	1230	1120		Muehlberger, 1966
Pegmatite, quarry, sec. 22, T34N, R3E, Iron Co. muscovite	1250	1210		Muehlberger, 1966

Ages Published in 1966

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
<u>Missouri</u> (cont'd)				
Granite core, American Zinc Lead and Smelting Co., #11, sec. 11, T34N, R2E, Iron Co. whole rock		1190±60		Muehlberger, 1966
Granite, sec. 21, T33N, R2E, Reynolds Co. whole rock		1220±70		Muehlberger, 1966
Rhyolite, sec. 4, T30N, R3E, Iron Co. whole rock		1330±80		Muehlberger, 1966
Granite core, St. Joseph Lead Co., sec. 34, T40N, R17W, Camden Co. whole rock		1520±90		Muehlberger, 1966
Granite core, St. Joseph Lead Co. sec. 6, T34N, R29W, Vernon Co. biotite	1330			Muehlberger, 1966
whole rock		1370±80		
Diorite core, St. Joseph Lead Co., sec. 24, T27N, R15W, Douglas Co. biotite	1270			Muehlberger, 1966
Pegmatite near Decaturville, Camden Co. muscovite	1350			

Ages Published in 1966

Rock type and Location Material analyzed	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
<u>Montana</u>				
Dillon Granite Gneiss, sec. 22, T14S, R10W				Giletti (1966)
biotite	1410	1480		
whole rock		1460		
Dillon Granite Gneiss, sec. 13, T9S, R8W				Giletti (1966)
biotite	1660			
Dillon Granite Gneiss, sec. 7, T9S, R5W				Giletti (1966)
biotite	1550			
Granitic gneiss, Pony Gneiss, sec.10, T6S, R2W				Giletti (1966)
biotite	1720			
Muscovite schist, Cherry Creek Gneiss				Giletti (1966)
biotite	1600			
biotite	1620			
muscovite	1680			
mineral isochron		1530		
Hornblende gneiss, Cherry Creek Gneiss, sec. 34, T7S, R7W				Giletti (1966)
biotite	1520	1560		
Biotite schist, Cherry Creek Gneiss, sec. 8, T5S, R4W				Giletti (1966)
biotite		1530		
Pegmatite in Cherry Creek Gneiss, sec. 12, T6S, R4W				Giletti (1966)
muscovite	1660	1590		
K-feldspar		1620		
Kyanite schist, Cherry Creek Gneiss, sec. 6, T8S, R1W				Giletti (1966)
biotite	1520			
Granitic gneiss, sec. 15, T11S, R8W				Giletti (1966)
biotite	1600	1540		
whole rock		3080		

Ages Published in 1966

Rock type and Location Material analyzed	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
Montana (Cont'd)				
Granitic gneiss, sec. 15, T11S, R8W				Giletti (1966)
biotite	1330 \pm 150	1480		
"		1480		
"		1470		
Granitic gneiss, sec. 13, T9S, R1W				Giletti (1966)
muscovite	1610			
Biotite schist, sec. 23, T2S, R2E				Giletti (1966)
biotite	1550			
Amphibolitic gneiss, sec. 6, T1S, R6E				Giletti (1966)
biotite	1730			
Granite gneiss, sec. 15, T5S, R4E				Giletti (1966)
biotite	1690			
Psammitic schist, sec. 36, T5S, R4E				Giletti (1966)
biotite	1790			
Granitic gneiss, sec. 3, T6S, R4E				Giletti (1966)
biotite	3220			
"	3270			
Granitic gneiss, approx. 800 ft. SW of 9233 ft. peak of Granite Mt.				Giletti (1966)
biotite	2620			
Granitic gneiss, sec. 2, T6S, R9E				Giletti (1966)
biotite	2120			
Phyllite, sec. 17, T9S, R9E				Giletti (1966)
biotite	2400			
Granite gneiss, sec. 32, T2S, R7W				Giletti (1966)
muscovite	175			

Ages Published in 1966

Rock type and Location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Montana</u> (Cont'd)				
Biotite schist, sec. 8, T3S, R7W biotite	75			Giletti (1966)
Granitic gneiss, approx. SEC, sec. 17, T1S, R1W biotite		> 80		Giletti (1966)
Quartz monzonite, Tobacco Root Batholith, sec. 17, T4S, R3W biotite	75			Giletti (1966)
Quartz monzonite, Tobacco Root Batholith, sec. 11, T4S, R1W biotite	52			Giletti (1966)
Pegmatite mica (?)	~2700			Butler (1966)
Pegmatite cutting Stillwater Complex biotite	2660			Butler (1966)
Hornfels in aureole of the Stillwater Complex biotite	3065			Butler (1966)
Volcanic, (andesite?), East Fork of Middle Creek, Gallatin Range, south of Bozeman ?	42.7 \pm 2.4			Tysdal, 1966
Dacitic intrusive near Mill Creek, Park (?) County, <i>Gallatin Range</i> ?	49.0 \pm 1.7			Tysdal, 1966

Ages Published in 1966

Rock type and location	Age (m.y.)			References
Material analyzed	K-Ar	Rb-Sr	Pb-α	
Nebraska				
Adamellite core, Amerada #1 Federal-Geiser, sec. 10, T34N, R54W, Sioux Co.				Goldich, 1966
biotite	1360			
whole rock		1620±320		
Schist cuttings, Hutton #1 Copple, sec. 24, T31N, R18W, Rock Co.				Goldich, 1966
whole rock	1180			
Granodiorite core, Hunt #1 Dobrovolsky, sec. 23, T28N, R15W, Holt Co.				Goldich, 1966
whole rock		1430±100		
Schist cuttings, Carter #7 Stratigraphic test, sec. 23, T22N, R7W, Boone Co.				Goldich, 1966
whole rock	1220			
Granite core, Kingwood #1 Spencer, sec. 22, T24N, R21W, Blaine Co.				Goldich, 1966
K-feldspar		1430±70		
Adamellite core, Byrd and Frost #1 Abbott, sec. 22, T24N, R38W, Grant Co.				Goldich, 1966
K-feldspar		1630±130		
Gneiss core, Texaco-Seaboard #1 Lowe, sec. 1, T23N, R38W, Grant Co.				Goldich, 1966
K-feldspar		1690±140		
Gneiss core, Ohio #1 Doyle, sec. 21, T18N, R32W, McPherson Co.				Goldich, 1966
biotite	880	316±20		
whole rock		200 to 1000		
Metagabbro cuttings, Pure #1 Blanchard, sec. 32, T16N, R43W, Garden Co.				Goldich, 1966
whole rock	980			
Gneiss core, Ohio #1 Bremer, sec. 5, T7N, R39W, Chase Co.				Goldich, 1966
biotite	1170			
whole rock		980±60		
Adamellite core, Skelly #1 Clemens, sec. 11, T9N, R34W, Lincoln Co.				Goldich, 1966
whole rock		1590±170		

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Nebraska (cont'd)</u>				
Adamellite core, Cities Service #1 Leu, sec. 17, T8N, R34W, Hayes Co. biotite K-feldspar	1170	1580±100		Goldich, 1966
Schist cuttings, Burch #1 Votaw, sec. 20, T10N, R29W, Lincoln Co. whole rock	1300			Goldich, 1966
Schist cuttings, Panhandle #1-26 Toberer, sec. 26, T8N, R24W, Frontier Co. whole rock	1280			Goldich, 1966
Schist cuttings, Panhandle #1 Brock- meir, sec. 13, T8N, R26W, Frontier Co. whole rock	1280			Goldich, 1966
Gneiss core, Superior #28-12 Little, sec. 12, T5N, R31W, Hayes Co. biotite K-feldspar	1180	1760±150		Goldich, 1966
Schist cuttings, Claussen #1 Roose, sec. 29, T1N, R32W, Hitchcock Co. whole rock	660			Goldich, 1966
Adamellite cuttings, Leben #1 Lauer, sec. 1, T2N, R29W, Red Willow Co. whole rock		1490±230		Goldich, 1966
Adamellite core, Tenneco #1 Lemaster, sec. 31, T2N, R25W, Furnas Co. biotite whole rock	1360	1490±230		Goldich, 1966
Granofels core, Ohio #1 Taylor, sec. 21, T11N, R18W, Buffalo Co. whole rock (4020' depth)		800±80		Goldich, 1966
Granodiorite core, Ohio #1 Taylor, sec. 21, T11N, R18W, Buffalo Co. whole rock (4040' depth)		1160±220		Goldich, 1966
Gneiss core, Ohio #1 Pettett, sec. 20, T9N, R18W, Buffalo Co. biotite		1160±60		Goldich, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Nebraska (cont'd)</u>				
Basalt core, Chester Williams #1 Radenslaben, sec. 28, T13N, R8E, Saunders Co. whole rock	990			Goldich, 1966
Adamellite core, Thorne #1 Rohlmer, sec. 13, T1N, R12E, Pawnee Co. biotite K-feldspar	1160	1480±190		Goldich, 1966
<u>NEVADA</u>				
Rhyolite ash, Chicken Creek Fm., NE1/4, sec. 11, T42N, R52E biotite	35.2±1.0			Axelrod, 1966
Quartz latite, Frost Creek Volcanics, SE1/4, sec. 14, T43N, R52E biotite	45.2±2.1			Axelrod, 1966
Rhyolite tuff, Deadhorse Tuff, sec. 32, T45N, R58E biotite	39.9±2.3			Axelrod, 1966
Granite mylonite gneiss, Hendrys Creek, northern Snake Range, 39°11'20"N, 114°5'25"W muscovite-biotite muscovite-biotite	40 ⁺⁶ -2 34 ⁺⁵ -2			Armstrong, 1966a
Adamellite gneiss, head of Lamoille Canyon, Ruby Mtns., 40°36'10"N, 115°22'30"W biotite + chlorite	29 ⁺⁴ -2			Armstrong, 1966a
Granodiorite gneiss, Lamoille Canyon, Ruby Mtns., 40°39'45"N, 115°26'05"W biotite	25 ⁺⁴ -2			Armstrong, 1966a
Phyllite, McCoy Creek, Schell Creek Range, 39°22'20"N, 114°32'05"W whole rock	39 ⁺⁶ -2			Armstrong, 1966a

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
	Nevada (Cont'd)			
Granodiorite porphyry, 114°50'15"W, 35°59'25"N, Boulder City Laccolith biotite-hornblende with quartz-feldspar	15±4			Armstrong (1966)
do.	17±4			
Granite, 114°50'10"W, 35°39'40"N, Knob Hill Pluton biotite	26 ⁺⁴ ₋₂			Armstrong (1966)
Andesite porphyry, 114°51'10"W, 36°1'25"N, River Mtn. Pluton biotite	13±2			Armstrong (1966)
Adamellite, 114°51'50"W, 39°24'10"N, Heusser Mtn. Pluton biotite-chlorite	32 ⁺⁵ ₋₂			Armstrong (1966)
Granite porphyry, 114°53'50"W, 39°37'15"N, northern Egan Range biotite	38 ⁺⁶ ₋₂			Armstrong (1966)
Granodiorite, 115°33'30"W, 39° 15'0"N, Seligman Stock biotite-chlorite with quartz, fld, hbl	110 ⁺¹⁷ ₋₂			Armstrong (1966)
Adamellite, 115°35'15"W, 38°21' 0"N, Troy Stock biotite	23 ⁺⁴ ₋₂			Armstrong (1966)
Porphyritic leucoadamellite, 114° 53'55"W, 39°49'20"N, dike in Cherry Creek Stock biotite	32 ⁺⁵ ₋₂			Armstrong (1966)
Syenite, 114°35'40"W, 40°20'25"N, Dolly Varden Stock biotite-hornblende	125 ⁺¹⁹ ₋₆			Armstrong (1966)
Adamellite, 114°17'50"W, 40°16'50"N, Whitehouse Stock biotite-chlorite-hornblende	140 ⁺²¹ ₋₇			Armstrong (1966)

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)		Reference	
	K-Ar	Rb-Sr	Pb- α	
Nevada (Cont'd)				
Adamellite, 114°20'45"W, 40°7'40"N, Kingsley Stock biotite-hornblende	35 ⁺⁵ -2			Armstrong (1966)
Adamellite, 114°10'55"W, 39°43'55"N, Kern Mtns. muscovite-biotite with qtz-fld.	42 ⁺⁶ -2			Armstrong (1966)
Leucoadamellite, 116°3'50"W, 39° 37'50"N, Whistler Mtn. Stock muscovite with impurities	165 ⁺²⁵ -8			Armstrong (1966)
Granodiorite porphyry, 115°59'35"W, 39°29'55"N, Ruby Hill Stock biotite plus chlorite and clay	64 ⁺¹⁰ -3			Armstrong (1966)
Adamellite, 116°1'5"W, 40°30'50"N, Railroad District Stock biotite	33 ⁺⁵ -2			Armstrong (1966)
Diorite, 116°25'5"W, 40°18'45"N, Cortez Range hornblende plus qtz. and fld.	150 ⁺³³ -8			Armstrong (1966)
Granodiorite, 116°34'10"W, 40°11' 25"N, Mill Canyon Stock biotite plus chlorite	115 ⁺¹⁷ -6			Armstrong (1966)
do.	120 ⁺¹⁸ -6			
do.	140 ⁺²¹ -7			
do.	120 ⁺¹⁸ -6			
Porphyritic leucoadamellite, 116° 20'30"W, 40°22'5"N, Cortez Range biotite	125 ⁺¹⁹ -6			Armstrong (1966)
do.	145 ⁺²² -7			

Ages Published in 1966

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
Nevada (Cont'd)				
Adamellite, 115°29'35"W, 40°18'45"N, Harrison Pass Stock				Armstrong (1966)
biotite	26 ⁺⁴ -2			
Adamellite, 115°28'20"W, 38°50'25"N, White Pine Mtns.				Armstrong (1966)
biotite plus chlorite and hornblende	27 ⁺⁴ -2			
do.	31 ⁺⁵ -2			
Adamellite, 115°30'15"W, 38°51'30"N, White Pine Mtns.				Armstrong (1966)
biotite plus chlorite and clay	36 ⁺⁵ -2			
Adamellite, 114°21'30"W, 39°2'50"N, Osceola Stock				Armstrong (1966)
biotite and chlorite	125 ⁺¹⁹ -6			
do.	105 ⁺¹⁶ -5			
Leucoadamellite, 114°20'40"W, 38° 57'40"N, Wheeler Peak Stock				Armstrong (1966)
biotite plus impurities	89 ⁺¹³ -4			
do.	100 ⁺¹⁵ -5			
Adamellite, 117°4'25"W, 39°29'40"N, Austin Stock				Armstrong (1966)
biotite plus chlorite	140 ⁺²¹ -7			
Horse Spring Tuff, 114°31'30"W, 36°38'20"N, Muddy River Narrows				
biotite-hornblende-pyroxene	22 ⁺³ -2			
do. do. do.	23 ⁺³ -2			
Crystal vitric ignimbrite, Needles Range Fm., 114°21'30"W, 37°50'0"N, Condor Canyon				Armstrong (1966)
biotite	26 ⁺⁴ -2			

Ages Published in 1966

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
Nevada (Cont'd)				
Crystal vitric ignimbrite, Needles Range Fm., 115°21'05"W, 38°35'30"N, Grant Range				Armstrong (1966)
biotite	26 ⁺⁴ -2			
Syenite, Dolly Varden Mtns., 40°20'25"N, 114°35'40"W				Armstrong, 1966a
biotite + hornblende	125 ⁺¹⁹ -6			
Adamellite, near Osceola, Southern Snake Range, 39°2'50"N, 114°21'30"W				Armstrong, 1966a
biotite + chlorite	125 ⁺¹⁹ -6			
biotite + chlorite	105 ⁺¹⁶ -5			
Mica schist, Hendrys Creek, northern Snake Range, 39°13'35"N, 114°6'55" W				Armstrong, 1966a
muscovite	27 ⁺⁴ -2			
muscovite	34 ⁺⁵ -2			

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>New Mexico</u>				
Granite cuttings, Sierra Grande #1 Rogers, sec. 4, T29N, R29N, Union Co.				Muehlberger, 1966
biotite		1270±60		
Granite core, Shamrock #1 McArthur, sec. 12, T19N, R21E, Mora Co.				Muehlberger, 1966
Muscovite	1320			
K-feldspar		1350±90		
Granite core, Cities Service #1 Driggers, sec. 22, T11N, R21E, Guadalupe Co.				Muehlberger, 1966
biotite	1350			
whole rock		1610±100		
Granite core, Husky-General Crude #1, Hanthett State, sec. 16, T8N, R24E, Guadalupe Co.				Muehlberger, 1966
whole rock		1100±60		
Gneiss core, Sun #1 Bingham State, sec. 23, T5S, R5E, Socorro Co.				Muehlberger, 1966
biotite	1350			
K-feldspar		1570±100		
Granite, sec. 5, T9S, R6E, Sierra Oscuro, Lincoln Co.				Muehlberger, 1966
muscovite	1360			
whole rock		1300±70		
Gneiss, sec. 23, T2N, R3E, Los Pinos Mtns, Socorro Co.				Muehlberger, 1966
whole rock		1430±70		
Gneiss, sec. 3, T13S, R4E, San Andres Mtns., Sierra Co.				Muehlberger, 1966
biotite	1400			
Granite, sec. 29, T16S, R4W, Caballo Mtns., Sierra Co.				Muehlberger, 1966
whole rock		1260±70		
Gneiss, sec. 5, T20S, R1W, San Diego Mtns, Dona Ana Co.				Muehlberger, 1966
biotite	1360			
whole rock		1360±140		
Gneiss, sec. 3, T19S, R4E, San Andres Mtns, Dona Ana Co.				Muehlberger, 1966
biotite	1380			

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>New Mexico</u> (cont'd)				
Granite core, DeKalb #1 Lewis, sec. 13, T10S, R25E, Chaves Co. K-feldspar		1340±90		Muehlberger, 1966
Schist core, Continental #1 Langford, sec. 2, T14S, R26E, Chaves Co. muscovite	1340			Muehlberger, 1966
whole rock		1230±70		
Granite core, Socony Mobil #95 State Bridges, sec. 26, T17S, R34E, Lea Co. K-feldspar		1160±60		Muehlberger, 1966
whole rock		1350±80		
Granite core, Stanolind #11-X State 'A', sec. 4, T19S, R38E, Lea Co. biotite	1180			Muehlberger, 1966
whole rock		1170±60		
Gneiss core, Continental #1-E Lockhart, sec. 27, T21S, R37E, Lea Co. biotite		1100±60		Muehlberger, 1966
Rhyolite, Valles Caldera, Sandoval Co., sanidine	0.71±0.03			Doell, 1966
Rhyolite, Valles Caldera, Sandoval Co., sanidine	0.72±0.03			Doell, 1966
Rhyolite, Valles Caldera, Sandoval Co., sanidine	0.73±0.03			Doell, 1966
Rhyolite, Valles Caldera, Sandoval Co., sanidine	0.88±0.04			Doell, 1966
Rhyolite, Valles Caldera, Sandoval Co., sanidine	0.89±0.04			Doell, 1966
Rhyolite, Valles Caldera, Sandoval Co., glass	1.04±0.06			Doell, 1966
<u>North Dakota</u>				
Gneiss cuttings, Amerada, N.D. "A" Unit 9, sec. 16, T156N, R95W, Williams Co. biotite	665	520		Goldich, 1966
Quartz monzonite(?) cuttings, Amerada #8 Scoria Unit, sec. 10, T139N, R101W, Billings Co. biotite	1740	1550		Goldich, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Ohio</u>				
Gneiss cuttings, J. S. Brailey #1 S.E. Killian, sec. 12, Liberty Township, Wood Co. biotite	960	900		Lidiak, 1966
*Gneiss and schist cuttings, Ohio #1 W. H. Bruns, sec. 9, T5N, R13E, Sandusky Co. biotite	935	890		Lidiak, 1966
Gneiss and schist cuttings, C. W. White #1 P. & B. Orting, Sec. 2, Peru Township, Huron Co. biotite	935	870		Lidiak, 1966
Trachyte porphyry cuttings, Sun #1 Nelson, sec. 24, Perry Township, Shelby Co. whole rock	1280±70			Lidiak, 1966
Rhyolite porphyry core, Ohio #1 Virgil Johns, Bellefontaine quadrangle, McArthur Township, Logan Co. whole rock	1240±120			Lidiak, 1966
Granite core, Ashland #3 Myers, sec. 33, Canaan Township, Morrow Co. biotite	860±40			Lidiak, 1966
Gneiss and schist cuttings, C. L. Wise #1 H. E. Vance, sec. 3, Orange Township, Delaware Co. biotite	940	900		Lidiak, 1966
	880	900		
Gneiss and schist cuttings, Kewanee #1 E.A. Hopkins, Union Township, Fayette Co. biotite	980	890		Lidiak, 1966
	930	930		
Amphibolite cuttings, Kewanee #1 E. Wilson, Concord Township, Fayette Co. biotite	990	880		Lidiak, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr Pb-Q	Reference
<u>Oklahoma</u>		
Granite porphyry (Mt. Scott Granite), Ira Smith quarry, SW1/4, SE1/4, SE1/4, sec. 4, T3N, R15W, Comanche Co. biotite	490±20	Denison (1966)
Olivine gabbro (Raggedy Mtn. Gabbro Group), NE1/4, SE1/4, NW1/4, sec. 9, T3N, R15W, Comanche Co. biotite biotite	475±20 485±20	Denison (1966)
Granite (cuttings), Hembree C-3 Hembree well, SE1/4, SW1/4, SE1/4, sec. 19, T7N, R5W, Pottawatomie Co. microcline microcline	1130±60 1120±60	Denison (1966)
Adamellite (cuttings), Okla. Natural Gas #1 Hardrow well, NW1/4, SE1/4, sec. 15, T23N, R2W, Noble County biotite microcline whole-rock	1260±50 1250±50 1290±100	Denison (1966)
Granite core, Ohio #1B School Land, sec. 33, T6N, R2E, Cimarron Co., whole rock	1290±60	Muehlberger, 1966
Adamellite core, Anderson-Prichard #28 Welsh, sec. 17, T28N, R1E, Kay Co. K-feldspar whole rock	1220±70 1210±70	Muehlberger, 1966
Rhyolite core, Porter #20 Miller, sec. 33, T23N, R3E, Pawnee Co. whole rock	1270±80	Muehlberger, 1966
Rhyolite core, Sinclair #46 Jones, sec. 30, T21N, R8E, Pawnee Co. whole rock	1180±60	Muehlberger, 1966
Microgranite cuttings, Norbla Oil #2 Lyman, sec. 24, T22N, R9E, Osage Co. K-feldspar	1240±70	Muehlberger, 1966
Microgranite core, Texaco #1 Kohpay, sec. 29, T25N, R8E, Osage Co. whole rock	1150±60	Muehlberger, 1966

Ages Published in 1966

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
Oklahoma (Contd.)				
Rhyolite cuttings, Cities Service #1 salt water disposal well, sec. 8, T24N, R11E, Osage Co. whole rock		1190 \pm 60		Muehlberger, 1966
Granite cuttings, Central Commercial #3 Hay, sec. 10, T17N, R10E, Creek Co. whole rock		1160 \pm 50		Muehlberger, 1966
Granite cuttings, Daniels & Smith #2 Vierhiller, sec. 36, T21N, R16E, Rogers Co. K-feldspar		1230 \pm 110		Muehlberger, 1966
Spavinaw Granite, sec. 15, T22N, R21E, Mayes Co. K-feldspar		1280 \pm 80		Muehlberger, 1966
Rhyolite core, Oklahoma Natural Gas #1 Stockton, sec. 20, T11N, R26E, Sequoyah Co. whole rock		1230 \pm 130		Muehlberger, 1966
Granite core, Pan American #1 Tackett Unit, sec. 28, T8N, R23E, Le Flore Co. K-feldspar		1200 \pm 70		Muehlberger
Gneiss cuttings, Cities Service #5 Farley, sec. 19, T11N, R2W, Oklahoma Co. K-feldspar		1150 \pm 150		Muehlberger, 1966
Rhyolite core, Tidewater #1 Wood, sec. 7, T4N, R4E, Pontotoc Co. whole rock		1250 \pm 120		Muehlberger, 1966
Troy granite, Arbuckle Mtns., sec. 20, T2S, R5E, Johnston Co. K-feldspar		1360 \pm 140		Muehlberger, 1966
Colbert porphyry, Arbuckle Mtns., sec. 1, T2S, R1E, Murray Co. K-feldspar		480 \pm 50		Muehlberger, 1966
Colbert Porphyry, Arbuckle Mtns., sec. 10, T1S, R1W, Murray Co. K-feldspar		470 \pm 130		Muehlberger, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr Pb- α	Reference
Oklahoma (Contd.)		
Granite core, Sinclair #1 Peterson, sec. 32, T6S, R6W, Jefferson Co. K-feldspar	1050 \pm 60	Muehlberger, 1966
Rhyolite core, Carter #1 Emmons, sec. 26, T2N, R9W, Stephens Co. whole rock	510 \pm 110	Muehlberger, 1966
Diorite cuttings, Barnes #1 Gamble, sec. 7, T8N, R26W, Beckham Co. biotite	500	Muehlberger, 1966
OREGON		
Lava, Dalles Formation between Fifteenmile Creek and Deschutes River (45°-46° N, 121° W). whole rock (?) Whole rock (?)	10.6 15.2	Newcomb, 1966
Phyllite or schist (Colebrooke Fm.), NW-1/4, sec. 20, T33S, R14W, Curry Co. whole rock	125 \pm 6	Koch, 1966
Phyllite or schist (Colebrooke Fm.), mouth of Quosatana Creek, T35S, R13W, Curry Co. whole rock	138 \pm 10	Koch, 1966
Quartz diorite (Pearse Peak Diorite), NW-1/4, SW-1/4, sec. 15, T33S, R14W, Curry Co. biotite biotite	141 \pm 7 146 \pm 4	Koch, 1966
Collier Butte diorite, south slope of Collier Butte, T37R, R12W, Curry Co. Hornblende	150 \pm 12	Koch, 1966
Quartz diorite (Pearse Peak Diorite), roadcut between secs. 22 and 27, T33S, R14W, Curry Co. hornblende	275 \pm 20	Koch, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Oregon</u> (Cont'd)				
Diorite, WNW of Saddle Mtn., T37S, R12W, Curry Co. hornblende	285 ± 25			Koch, 1966
Diorite, SW-1/4, SE-1/4, sec. 34, T36S, R14W, Curry Co. hornblende	130 ± 15			Koch, 1966
<u>Pennsylvania</u>				
Shale (Reedsville Fm., Ordo- vician), McConnellsburg, 40° 12.3'N, 77°56.7'W shale (whole rock) mylonite "	430 360 320			Pierce (1966)
<u>South Dakota</u>				
Granite, quarry near Milbank, Grant Co. biotite K-feldspar	1970	2500±240		Goldich, 1966
Granite Hunter Granite Co., Quarry #1, Grant Co. K-feldspar whole rock		2630±250 2410±300		Goldich 1966
Quartz latite core, Hinker #1 Gerald Tonsager, sec. 15, T109N, R54W, Kingsbury Co. whole rock		1640±90		Goldich, 1966
Felsite porphyry core, Joe Grassell farm well, sec. 21, T108N, R59W, Sanborn Co. whole rock	1680	1640±80		Goldich, 1966
Granodiorite core, Smith & Davidson well, sec. 25, T103N, R61W, Davison Co. biotite		1610±80		Goldich, 1966
Adamellite cuttings, Sioux Valley #1 LaFleur, sec. 18, T90N, R48W, Union Co. K-feldspar		1410±100		Goldich, 1966

Ages Published in 1966

Rock type and location Material analyzed	AGE (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
South Dakota (Cont'd)				
Adamellite cuttings, Shell #1 Veal, sec. 7, T17N, R15E, Perkins Co. K-feldspar		1730±120		Goldich, 1966
Adamellite cuttings, Evans #1 Querbes- Capp, sec. 19, T13N, R16E, Perkins Co. K-feldspar		1750±120		Goldich, 1966
Gneiss core, Mobil #1 Sipila, sec. 14, T9N, R8E, Butte Co. whole rock		1670±90		Goldich, 1966
Etta pegmatite, Black Hills, Custer Co., muscovite	1640			Goldich, 1966
Granite of Harney Peak, Black Hills, Custer Co. muscovite	1680			Goldich, 1966
Schist cuttings, Black Hills Ord- nance Depot (Provo)#1, sec. 3, T10S, R2E, Fall River Co. Biotite		1440±70		Goldich, 1966
Schist cuttings, Pray #1 Kranzler, sec. 14, T121N, R77W, Walworth Co. biotite		1690±80		Goldich, 1966
Gneiss cuttings, Carter #1 Whittock- Smith, sec. 34, T118N, R78W, Potter Co. whole rock		1460		Goldich, 1966
Adamellite cuttings, Shamrock #2 Barrick, sec. 23, T7N, R26E, Stanley Co. K-feldspar		1600±110		Goldich, 1966
Adamellite cuttings, General Crude #1 Skippy, sec. 5, T96N, R75W, Tripp Co. K-feldspar		1460±80		Goldich, 1966
Adamellite cuttings, General Crude #1 Rural Credit, sec. 33, T95N, R77W, Tripp Co. K-feldspar		1430±80		Goldich, 1966
Adamellite core, Harvey Carr farm well, sec. 19, T126N, R59W, Marshall Co. biotite	2400			Goldich, 1966
K-feldspar		2270±140		

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Texas</u>				
Rhyolite core, Standard #1 Johnson, sec. 375, Blk. 44, H&TC Surv., Hartley Co. K-feldspar		1180±90		Muehlberger, 1966
Gneiss core, Gulf #69 Burnett, sec. 106, Blk. 5, I&GNRR Surv., Carson Co. hornblende	1230			Muehlberger, 1966
Granite core, Texoma Prod. #2, Aebersold, sec. 181, Blk. 3, I&GNRR Surv. Carson Co. K-feldspar		1140±90		Muehlberger, 1966
Rhyolite core, Frankfort #1 Hix, sec. 179, Blk. 6, I&GNRR Surv., Randall Co. whole rock		550±80		Muehlberger, 1966
Granite core, Shell #1 Alamosa Ranch, Lot. 41, Blk H-3, CLS, Oldham Co. whole rock		1130±70		Muehlberger, 1966
Rhyolite core, Humble #1 Reinauer, sec. 7, T2N, R1E, Deaf Smith Co. whole rock		1100±80		Muehlberger, 1966
Diabase core, Gulf #1-A Keliehor, sec. 5, Lge, 2, Brown Subd., Gregg, CSL Survey, Parmer Co. Pyroxene	1200			Muehlberger, 1966
Rhyolite core, Stanolind #1 Steve Owens, sec. 81, Blk. 1, SPRR Survey, Childress Co. whole rock		1320±90		Muehlberger, 1966
Granite core, D. M. Ross #1-A Fields, J. L. Graham Surv., Montague Co. K-feldspar		1140±60		Muehlberger, 1966
Gneiss core, Sun #2 Arledge, sec. 261, Blk. 1-A, H&TCRR Surv., Coke Co. biotite	1000			Muehlberger, 1966
whole rock		1050±80		
Granite core, Humble #1 Ellen Sims, Wilhelm Kramer Surv. 309, Concho Co. K-feldspar		1000±50		Muehlberger, 1966
Gneiss core, Gulf #92 Keystone Cattle Co., sec. 14, Blk. B-2, PLS surv., Winkler Co. whole rock		1270±100		Muehlberger, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Texas (cont'd)</u>				
Gneiss boulder from Haymond Boulder Beds, Housetop Mtn., 30°09'45"N, 102°58'15"W., Brewster County				Muehlberger, 1966
biotite	360			
whole rock		570±120		
Rhyolite, 31°52'N, 106°30'W, Franklin Mtns, El Paso Co.				Muehlberger
whole rock		990±50		

Ages Published in 1966

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>Utah</u>				
Crystal vitric ignimbrite, Needles Range Fm., Wah Wah Member, 113°50'25"W, 38°37'05"N, near Needles Range biotite-hornblende	24 ⁺⁴ ₋₂			Armstrong (1966)
Adamellite porphyry, 113°48'50"W, 39°50'50"N, Ibapah Stock biotite	22 ⁺³ ₋₂			Armstrong (1966)
Granodiorite, 111°36'55"W, 40°34' 50"N, Alta Stock biotite-chlorite- hornblende	39 ⁺⁶ ₋₂			Armstrong (1966)
Granodiorite, 111°39'30"W, 40°35'0"N, Cottonwood Stock biotite-chlorite- hornblende	22 ⁺³ ₋₂			Armstrong (1966)
Granodiorite porphyry, 113°12'25"W, 37°44'45"N, Three Peak Laccolith biotite-hornblende	24 ⁺⁴ ₋₂			Armstrong (1966)
Adamellite, 112°31'45"W, 39°56'30"N, Sheeprock Stock biotite	19 ⁺³ ₋₂			Armstrong (1966)
Monzonite porphyry, 112°7'0"W, 40°31'10"N, Bingham Stock biotite-hornblende	49 ⁺⁷ ₋₂			Armstrong (1966)
do.	40 ⁺⁶ ₋₂			
Gneiss core, Pacific Natural Gas Southern Union #1-27, Range Creek, sec. 27, T17S, R16E, Emery Co. biotite		1470±70		Muehlberger, 1966
Granodiorite core, Carter #1 Minton- State, sec. 32, T14S, R20E, Uintah Co. biotite K-feldspar	1360	1520±190		Muehlberger, 1966

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>UTAH</u> (Cont'd)				
Pegmatite, mouth of Trout Creek Canyon, Deep Creek Mtns., 39°44'50"N 113°52'40"W				Armstrong, 1966a
muscovite	20 ⁺³ ₋₂			
muscovite	22 ⁺³ ₋₂			
Phyllite-schist, mouth of Birch Creek Canyon, Deep Creek Mtns., 39°43'05"N, 113°55'45"W				Armstrong, 1966a
muscovite + chlorite	21 ⁺³ ₋₂			
Mica schist, Big Hollow, Raft River Range, 41°51'55"N, 113°28'55"W				Armstrong, 1966a
biotite	41 ⁺⁶ ₋₂			
biotite	38 ⁺⁶ ₋₂			
Adamellite gneiss, Clear Creek Canyon, Raft River Range, 41°55'50"N, 113°22'45"W				Armstrong, 1966a
biotite + chlorite	57 ⁺⁸ ₋₃			
<u>WASHINGTON</u>				
Tuff, Tom Thumb Member of Klondike Mtn. Fm. Highway #4, S edge of Republic				Axelrod, 1966
biotite	55.0±1.7			
<u>West Virginia</u>				
Granodiorite gneiss core, Hope Natural Gas #9634, Power Oil Co., Wood Co.				Lidiak, 1966
biotite	850	820		

Ages Published in 1966

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Wisconsin</u>				
Granite, near Aurora, T38N, R19E, Florence Co. biotite	1160			Goldich, 1966
Rholite porphyry, sec. 2?, T31W, R16E, near Mountair, Oconto Co. K-feldspar		1300 \pm 70		Goldich, 1966
Rhyolite porphyry, quarry, sec. 36, T15N, R13E, Green Lake Co. whole rock		1490 \pm 70		Goldich, 1966
Waterloo Quartzite, between Waterloo and Watertown, Jefferson Co. muscovite	1410			Goldich, 1966
<u>Wyoming</u>				
Yellowstone Tuff, 110°49'30"W, 44°39'0"N, Yellowstone Park sanidine	3			Armstrong (1966)
do.	1.5			
do.	5			
do.	3			
Basalt(?), NW flank of Crescent Mtn., SW quarter of T45N, R108W, Park County whole rock	3.6 \pm 1.0			Blackstone (1966)
Adamellite core, Cosden #1 State, sec. 16, T29N, R105W, Sublette Co. biotite	1840			Goldich, 1966
whole rock		2750 \pm 350		
Quartz diorite core, Tidewater #74- 21 Unit, sec. 21, T41N, R81W, Johnson Co. biotite	2420			Goldich, 1966
whole rock		2580 \pm 150		
Adamellite, sec. 22, T28N, R65W, Goshen Co. biotite	1310			Goldich, 1966
K-feldspar		1580 \pm 90		

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Ages published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Alaska</u>				
Granite, Hunter Creek, 65°40'06"N, 161°30'1.8"W hornblende	102±10			Patton, 1967
Adamellite, Chichagof Island 57°55'30"N, 135°01'W zircon			120±20	Loney, 1967
Adamellite, Chichagof Island 57°56'30"N, 135°06'30"W zircon biotite	103±5		150±20	Loney, 1967
Adamellite, Chichagof Island 57°54'30"N, 135°13'W zircon			180±20	Loney, 1967
Adamellite, Chichagof Island 57°53'30"N, 135°15'30"W zircon hornblende	144±7		160±20	Loney, 1967
Pegmatite, Chichagof Island 57°52'30"N, 135°33'W zircon hornblende	111±6		210±50	Loney, 1967
Tonalite, Chichagof Island 57°50'N, 135°28'W zircon hornblende	114±6		110±20	Loney, 1967
Tonalite, Chichagof Island, 57°20'30"N, 134°48'30"W hornblende	109.7±1.6 105.8±1.6			Loney, 1967
Diorite, Chichagof Island, 57°32'N, 135°40'W hornblende	164±5			Loney, 1967
Diorite, Baranof Island, 57°24'N, 135°36'W biotite hornblende	152±4 151±5			Loney, 1967
Granodiorite, Baranof Island, 57°11'30"N, 135°49'30"W biotite	48.6±1.1			Loney, 1967

page 111

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Alaska</u> (Cont'd)				
Granodiorite, Baranof Island, 57°11'N, 134°52'30"W				Loney, 1967
biotite	42.6±1.1			
muscovite	44.3±1.2			
Pegmatite, Baranof Island, 57°06'N, 134°54'30"W				Loney, 1967
muscovite	42.2±0.8			
	41.1±0.8			
Granodiorite, Baranof Island, 57°04'30"N, 134°47'30"W				Loney, 1967
biotite	28.1±1.3			
Tonalite, Baranof Island, 57°03'N, 134°51'W				Loney, 1967
biotite	38.7±0.9			
Tonalite, Baranof Island, 57°01'N, 135°02'30"W				Loney, 1967
biotite	47.2±1.3			
Andalusite-garnet-biotite schist, Baranof Island, 56°55'30"N, 134°44'30"W				Loney, 1967
biotite	33.8±0.3			
Pegmatite, Baranof Island, 56°55'N, 134°43'30"W				Loney, 1967
muscovite	36.2±0.4			
Tonalite, Baranof Island, 56°44'N, 134°43'W				Loney, 1967
biotite	24.3±1.6			
Tonalite, Baranof Island, 56°44'N, 134°38'W				Loney, 1967
biotite	24.9±0.5			
hornblende	31.5±0.5			
Trondhjemite, Baranof Island, 56°42'30"N, 134°44'30"W				Loney, 1967
biotite	25.8±0.6			

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
Alaska (Cont'd)				
Granodiorite, Baranof Island 56°46'30"N, 135°10'W biotite	46.9±0.5			Loney, 1967
Leucotonalite, Baranof Island 56°46'30"N, 134°56'30"W biotite	44.2±1.1			Loney, 1967
Leucotonalite, Baranof Island 56°43'N, 134°57'W biotite	44.4±0.4			Loney, 1967
Granodiorite, Baranof Island, 56°42'N, 134°53'W biotite	42.0±0.6			Loney, 1967
Andesite (?) dike, Baranof Island, 56°42'N, 134°53'W hornblende	46.8±3.0			Loney, 1967
Biotite hornfels, Baranof Island, 56°40'N, 134°59'30"W biotite	45.7±1.4			Loney, 1967
Biotite hornfels, Baranof Island, 56°35'30"N, 135°01'W whole rock	45.2±0.7			Loney, 1967
Biotite schist (?), Baranof Island, 56°22'N, 134°55'W biotite	43.1±0.9			Loney, 1967
Biotite schist, Baranof Island, 56°11'N, 134°42'30"W whole rock	34.7±1.2			Loney, 1967
Adamellite, Admiralty Island, 57°46'N, 134°24'30"W zircon biotite	117±6		260±30	Loney, 1967
Tonalite, Admiralty Island, 57°42'30"N, 134°31'W zircon			110±20	Loney, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
<u>ALASKA</u> (Cont'd)				
Basalt, Nunivak Island, 66°N, 166°30'W anorthoclase	0.03±0.02			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W anorthoclase	0.06±0.02			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.11±0.03			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W anorthoclase	0.14±0.02			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.22±0.09			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.27±0.06			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.28±0.05			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.29±0.07			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.33±0.12			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.34±0.05			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.35±0.09			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.48±0.06			Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock	0.62±0.09			Cox, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
<u>ALASKA</u> (Cont'd)				
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.65±0.07			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.67±0.09			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.72±0.09			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.73±0.10			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.79±0.10			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.84±0.08			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.85±0.07			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.85±0.03			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.91±0.07			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	0.93±0.08			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	1.51±0.15			Cox, 1967
Basalt, Nunivak Island, 66° N, 166° 30' W whole rock	1.54±0.09			Cox, 1967

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Alaska (Cont'd)</u>				
Leucogranodiorite, Admiralty Island, 57°39'30"N, 134°24'30"N				Loney, 1967
zircon			130±20	
hornblende	107±5			
Granodiorite, Chilkat Range, 58°25'N, 135°12'30"W				Loney, 1967
zircon			180±20	

Basalt, Ikook Point, Nunivak Island				Dalrymple, 1967
whole rock (lower flow)	6.12±0.18			
whole rock (upper flow)	4.14±0.12			
Basalt, Ikooksmitut, Nunivak Island				Dalrymple, 1967
whole rock	4.04±0.12			
Basalt, Koweelik Bluff, Nunivak Island				Dalrymple, 1967
whole rock	4.84±0.15			
Basalt, Cape Algonquin, Nunivak Island				Dalrymple, 1967
whole rock (lower flow)	4.88±0.15			
whole rock (upper flow)	4.83±0.14			
Basalt on Nash Harbor, Nunivak Island				Dalrymple, 1967
whole rock	5.06±0.15			
Basalt on Nash Harbor, Nunivak Island				Dalrymple, 1967
whole rock	4.88±0.15			
Basalt, Nunivak Island, 66°W, 166°30'W				Cox, 1967
whole rock	3.31±0.12			
Gabbro, Duke Island, approx. 55°55'N, 131°20'W				Irvine, 1967
biotite	173			
Pegmatite, ultramafic complex, Duke Island, approx. 55°55'N, 131°20'W				Irvine, 1967
hornblende	108			

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>ALASKA</u> (Cont'd)				
Basalt, Nunivak Island, 66°N, 166°30'W whole rock		1.65±0.09		Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock		3.16±0.10		Cox, 1967
Basalt, Nunivak Island, 66°N, 166°30'W whole rock		3.27±0.10		Cox, 1967

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>ARIZONA</u>				
Oracle Quartz Monzonite, 32°35'N, 110°45'W				Livingston, 1967
biotite	1370			
orthoclase	936 (argon leakage)			
plagioclase	1420			
Ruin Quartz Monzonite, 33°35'N, 110°50'W				Livingston, 1967
biotite	1410			
orthoclase	912 (argon leakage)			
plagioclase	1430			
biotite	1450 (USGS)	1410 (USGS)	1420 (UA)	
Schultze Quartz Monzonite, 33°23.0'N, 111°54.17'W				Livingston, 1967
biotite	57.8			
orthoclase	73.9 (excess argon)			
plagioclase	298 (excess argon)			
Texas Canyon Quartz Monzonite, 32°25.0'N, 110°58.7'W				Livingston, 1967
biotite (-80 + 100 mesh)	49.6			
biotite (-35 + 48 mesh)	50.5			
muscovite	52.4			
Texas Canyon Quartz Monzonite, 32°25.0'N, 110°58.7'W				Livingston, 1967
biotite	48.4			
muscovite (-48+60 mesh)	47.4			
muscovite (+20 mesh)	54.2			
orthoclase	30.3 (argon leakage)			
plagioclase	69.4 (excess argon)			
Ruin Quartz Monzonite, Sierra Ancha				Livingston, 1967
biotite (B)	1410			
biotite (A)	1425			
Pegmatite, Canoa Ranch, Pima County				Livingston, 1967
muscovite	50.7	40±8		
albite	136 (excess argon)			
Gneiss, Molino Basin, Santa Catalina Mtns.				Livingston, 1967
muscovite	25.4			
biotite	25.1			
orthoclase	26.8			
plagioclase	29.3 (excess argon)			

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
ARIZONA (Cont'd)				
Gneiss, Molino Basin, Santa Catalina Mtns. biotite	27.1			Livingston, 1967
Granitic Gneiss, Hitchcock Memorial, 32°22.1'N, 110°43.0'W biotite muscovite	24.8 29.5 32±3	23.9±1.4 37.6±1.0		Livingston, 1967
Granodiorite, southeast of Granite Peak, Whetstone Mtns. Benson quad., approx. 31°46'N, 110°26'W biotite hornblende	74 74			Creasey, 1967

Granodiorite porphyry, Santa Rita quad., 32°50.2'N, 108°4.5'W biotite		53±18		Moorbath, 1967
Granodiorite porphyry, North Pit, Chino Mine, Santa Rita, 32°48'00"N, 108°04'40"W biotite		53±13		Moorbath, 1967
Quartz monzonite porphyry (Granite Mtn.) near Ray, 33°10'N, 110°00'W biotite		70±10		Moorbath, 1967
Quartz monzonite, 3 miles W. Ray biotite		61±9		Moorbath, 1967

Andesite, Cocoraque Fm., 32°10'07"N, 111°19'18"W, Roskrige Mtns. whole rock	108.1±2.4			Bikerman, 1967
Andesite, Roadside Fm., 32°06'04"N, 111°26'52"W, Roskrige Mtns. whole rock	65.2±2.0			Bikerman, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
ARIZONA (Cont'd)				
Viopuli ignimbrite, 32°04'50"N, 111°28'54"W, Roskruge Mtns. biotite		74.1±1.5		Bikerman, 1967
Viopuli ignimbrite, 32°05'28"N, 111°26'06"W, Roskruge Mtns. biotite		74.2±1.5		Bikerman, 1967
Upper Roskruge volcanics, 32°04'41"N, 111°27'52"W, Roskruge Mtns. biotite		71.3±1.6 69.7±1.6		Bikerman, 1967
Upper Roskruge volcanics, 32°09'57"N, 111°23'34"W, Roskruge Mtns. biotite		68.7±1.9 70.0±1.5		Bikerman, 1967
Upper Roskruge volcanics, 32°06'47"N, 111°25'07"W, Roskruge Mtns. biotite		68.9±1.5		Bikerman, 1967
Upper Roskruge volcanics, 32°08'19"N, 111°23'26"W, Roskruge Mtns. biotite biotite feldspar plagioclase		72.6±1.5 72.2±1.6 68.8±1.7 66.3±3.0		Bikerman, 1967
Granodiorite, Cocoraque Butte pluton, 32°13'06"N, 111°20'37"W, Roskruge Mtns. biotite		68.6±1.4		Bikerman, 1967
Granodiorite, LaTortuga Butte pluton, 32°09'16"N, 111°26'36"W plagioclase		34.1±0.3		Bikerman, 1967
Basaltic andesite, 32°07'26"N, 111°19'50"W, Roskruge Mtns. whole rock		23.5±1.4		Bikerman, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>ARIZONA</u> (Cont'd)				
Basaltic andesite, 32°04'03"N, 111°24'23"W, Roskrige Mtns. whole rock		23.1±0.7		Bikerman, 1967
Basaltic andesite, 32°07'27"N, 111°19'46"W, Roskrige Mtns. whole rock		14.4±2.41		Bikerman, 1967
Recortado ash flow, 32°10'44"N, 111°21'24"W, Roskrige Mtns. sanidine		14.0±0.5 12.6±0.6		Bikerman, 1967
Recortado distal end, 32°09'21"N, 111°21'21"W, Roskrige Mtns. sanidine		12.6±0.4		Bikerman, 1967
Basalt in Brawley Wash, 32°05'50"N, 111°19'17"W, Roskrige Mtns. whole rock		10.4±1.3		Bikerman, 1967
Basalt dike, 32°12'34"N, 111°22'14"W, Roskrige Mtns. whole rock		9.7±1.7		Bikerman, 1967
Minette, Monument Valley biotite				Watson, 1967

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Arizona (Cont'd)</u>				
Vulcan's Throne basalt, 36°13'12"N, 113°05'06"W, Toroweap Valley whole rock olivine	~ 0.01 114 ± 3		(excess argon-40)	Damon (1967)
Basalt, "A" flow, Lower Canyon Group 36°11'53"N, 113°05'00"W, Toroweap Valley whole rock	1.2 ± 0.2			Damon (1967)
Black Point Basalt, 35°17'24"N, 111°21'06"W, San Francisco Volcanic Field, whole rock plagioclase phenocrysts	2.4 ± 0.3 9.3 ± 0.8		(excess argon-40)	Damon (1967)
Anderson Mesa Basalt, 35°06'54"N, 111°33'25"W, San Francisco Volcanic Field whole rock	6.2 ± 1.2			Damon (1967)
Sandy Point Basalt, 36°06'32"N, 114°06'26"W, Lake Mead Area whole rock	2.6 ± 0.9			Damon (1967)
Camptonite dike, 35°59'20"N, 114°39'16"W, Lake Mead Area whole rock (fine grained) plagioclase phenocrysts kaersutite (amphibole) phenocrysts whole rock (chilled border)	3.7 ± 0.7 4.3 ± 0.1 5.2 ± 0.3 9.3 ± 1.1		(excess argon-40)	Damon (1967)
Fortification Hill Basalt, 36°02'45"N, 114°39'35"W, Lake Mead Area whole rock	10.6 ± 1.1			Damon (1967)

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
<u>ARKANSAS</u>				
Nepheline syenite, quarry on Granite Mtn. near Little Rock				Zartman, 1967a
biotite (-20+40)	87±4	86±3		
biotite (-20+40)	91±5	86±3		
Melteigite, alkaline igneous complex at Magnet Cove				Zartman, 1967a
biotite (-10+20)	95±5			
Garnet ijolite, alkaline igneous complex at Magnet Cove				Zartman, 1967a
biotite (-40+80)	97±5	99±8		
<u>California</u>				
Franciscan metagraywackes, Yolla Bolly quad. sec. 26, T26N, R10W, to sec. 22, T27N, R10W whole rocks			112±16 (isochron)	Peterman, 1967
Franciscan metagraywacke and graywackes, Angel Island 37° 51.9'N, 122° 25.7'W whole rocks			145 (isochron)	Peterman, 1967
Ash, Malaga Mudstone of Malga Cove glass shards	9.9±0.6			Bandy, 1967
Mylonite from Patchalka Springs Fault, Clark Mountain Area whole rock	78 ± 2			Adams (1967)
Teutonia Granite, Teutonia Peak, Clark Mountain Area hornblende whole rock	92 ± 2 93 ± 2			Adams (1967)
Plutonic, Copper World Pluton, Clark Mountain Area biotite whole rock	88 ± 3 84 ± 2			Adams (1967)

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
CALIFORNIA (Cont'd)			
Welded tuff in Alturas Fm., NW C of SE1/4, sec. 17, T42N, R11E, Alturas quad. plagioclase	13.26±0.33		Dalrymple, 1967
Andesite, SW1/4, sec. 15, T23N, R13E, Blairsden quad. plagioclase	10.81±0.54		Dalrymple, 1967
Basalt of Stony Ridge, SE1/4, SW1/4, sec. 11, T27N, R16E, Milford quad. whole rock	13.74±0.41		Dalrymple, 1967
Basalt, S of Bald Peak, Dardanelles Cone quad. whole rock whole rock	8.78±0.40 9.31±0.42		Dalrymple, 1967
Quartz (?) monzonite of Joshua Flat, east side of mouth of Deep Spring valley, Inyo Co. biotite	153±4		McKee, 1967
Quartz (?) monzonite of Joshua Flat, head of Deep Spring valley, Inyo Co. biotite hornblende	171±5 168±4		McKee, 1967
Quartz (?) monzonite of Joshua Flat, west side of mouth of Deep Spring valley, Inyo Co. hornblende	179±4		McKee, 1967
Quartz (?) monzonite of Joshua Flat, east side of mouth of Deep Spring valley, Inyo Co. biotite hornblende	168±4 184±5		McKee, 1967
Quartz (?) monzonite of Joshua Flat, west side of Eureka valley, Inyo Co. hornblende	176±5		McKee, 1967
Foliated granodiorite, NE of mouth of Birch Creek, Inyo Co. microcline	91±10		McKee, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar	Rb-Sr	Pb-α	Reference
<u>CALIFORNIA</u> (Cont'd)				
Foliated granodiorite, N of mouth of Birch Creek, Inyo Co. hornblende	213±6			McKee, 1967
Monzonite of Eureka valley, west side, Inyo Co. augite biotite	119±7 163±4			McKee, 1967
Monzonite of Eureka valley, west side, Inyo Co. biotite	171±4			McKee, 1967
Quartz monzonite of Beer Creek, southern White Mtns., Inyo Co. biotite hornblende	151±4 158±4			McKee, 1967
Quartz monzonite of Beer Creek, E side of Deep Spring valley, Inyo Co. biotite	170±5			McKee, 1967
Quartz monzonite of Beer Creek, SW side of Fish Lake valley, Inyo Co. biotite	162±4			McKee, 1967
Monzonite (?) of Sage Hen Flat pluton, southern White Mtns., Mono Co. biotite hornblende	130±4 138±5			McKee, 1967
Monzonite (?) of Birch Creek pluton, W of Birch Creek, Inyo Co. biotite	80±4			McKee, 1967
Monzonite (?) of Birch Creek pluton, W of Birch Creek, Inyo Co. biotite	77±2			McKee, 1967
Granite dike, N of mouth of Birch Creek, Inyo Co. biotite	76±4			McKee, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
CALIFORNIA (Cont'd)				
Granite dike, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
biotite	93 \pm 5			
microcline	117 \pm 9			
Alaskite dike, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
microcline	90 \pm 8			
Granite sill, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
microcline	121 \pm 8			
Granite dike, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
microcline	116 \pm 7			
Granite dike, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
microcline	90 \pm 6			
Granite sill, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
microcline	81 \pm 9			
Alaskite dike, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
microcline	98 \pm 9			
Quartzite, Campsite Fm., near head of Birch Creek, Inyo Co.				McKee, 1967
biotite	92 \pm 3			
Schist, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
biotite	91 \pm 6			
Skarn in dolomite marble, N of mouth of Birch Creek, Inyo Co.				McKee, 1967
phlogopite	143 \pm 7			
Quartz diorite, Bucks Batholith, C of N1/2, sec. 2, T24N, R6E, Pulga quad.				Gronme, 1967
biotite	132			
hornblende	136			

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
CALIFORNIA (Cont'd)			
Diorite, Bucks Batholith, C of sec. 2, T24N, R6E, Pulga quad.			Gromme, 1967
hornblende	143		
hornblende	142		
Quartz diorite, Bucks Batholith, C of S1/2, SW1/4, sec. 30, T24N, R6E, Pulga quad.			Gromme, 1967
biotite	128		
hornblende	142		
Granodiorite, Bucks Batholith, C of E1/2, E1/2, SW1/4, sec. 22, T23N, R5E, Pulga quad.			Gromme, 1967
biotite	129		
hornblende	132		
Granodiorite, Merrimac Batholith, C of W1/2, SW1/4, sec. 16, T22N, R6E, Pulga quad.			Gromme, 1967
biotite	131		
hornblende	129		

Basalt, NE of Alturas			Coe, 1967
whole rock	7.82±1.2		
whole rock	6.88±0.7		
whole rock	6.99±0.6		
whole rock	7.21±0.7		
whole rock	7.38±0.8		
whole rock	7.39±0.5		
Blue Ridge Rhyolite, near Mineral (?)	1.52		Coe, 1967

Latite tuff near Anchorite Pass, Huntoon Valley quad.			Dalrymple, 1967
biotite	9.52±0.38		
Latite tuff, SW1/4, SW1/4, sec. 24, T3N, R26E, Bodie quad.			Dalrymple, 1967
biotite	9.19±0.28		
Latite tuff, roadcut Hwy. 395, near Conway Summit, Bodie quad.			Dalrymple, 1967
biotite	9.35±0.37		
biotite	9.01±0.27		
	127		

Ages Published in 1967

Rock type and Location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>California (Cont'd)</u>				
Plutonic, Panamint Butte, Hunter Mountain Complex				Adams (1967)
whole rock	151 + 5			
biotite	156 ± 4			
Plutonic, Grapevine Canyon, Hunter Mountain Complex				Adams (1967)
whole rock	134 + 2			
hornblende	165 ± 3			
Plutonic, Palm Springs, Hunter Mountain Complex				Adams (1967)
whole rock	127 ± 3			
Plutonic, Racetrack Valley, Hunter Mountain Complex				Adams (1967)
whole rock	132 ± 4			
Plutonic, Ubehebe Mine No.4, Hunter Mountain Complex				Adams (1967)
whole rock	139 ± 2			
Intrusive, Delfonte Volcanics, Clark Mountain Area				Adams (1967)
whole rock	86 ± 2			
Granite, Ivanpah Pluton, Clark Mountain Area				Adams (1967)
biotite	137 ± 2			
Mylonite from Oro Wash Fault, Clark Mountain Area				Adams (1967)
whole rock	87 + 2			

Ages Published in 1967

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
COLORADO				
Gneiss, approx 7 miles E of Aspen, Sawatch Range whole rock		~ 1520±250		Moorbath, 1967
Gneiss, approx, 12 miles E of Aspen, Sawatch Range whole rock (biotite-rich) whole rock		1395±35 ~ 1700±250		Moorbath, 1967
Gneiss, approx. 13 miles E of Aspen, Sawatch Range whole rock whole rock		~ 1750±250 ~ 1970±250		Moorbath, 1967
Gneiss, east side of Independence Pass, Sawatch Range whole rock		~ 1670±250		Moorbath, 1967
Granite, road cut, 8 miles W of Twin Lakes, Sawatch Range biotite		56±10		Moorbath, 1967
Sericitic gangue, Climax sericite		73±8		Moorbath, 1967
Altered porphyry near Leadville muscovite		100±11		Moorbath, 1967
La Garita Quartz Latite, NE of Creede, San Juan Mtns. sanidine	27.9±0.8			Steven, 1967
La Garita Quartz Latite, NNE of Creede, San Juan Mtns. sanidine	27.7±0.8			Steven, 1967
Tuff of Fish Canyon, E of Creede, San Juan Mtns. sanidine biotite hornblende plagioclase	27.8±0.8 27.7±0.8 26.5±1.9 27.4±1.9			Steven, 1967
Tuff of Fish Canyon, Sapinero Mesa, Gunnison Co. biotite	26.8±2.7			Steven, 1967
Fisher Quartz Latite, 3-1/2 mi. E of Spar City, San Juan Mtns. sanidine	26.8±1.4			Steven, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb- α	Reference
COLORADO (Cont'd)			
Fisher Quartz Latite, S of Creede, San Juan Mtns. sanidine	26.5 \pm 1.0		Steven, 1967
Fisher Quartz Latite, S of Creede, San Juan Mtns. sanidine biotite hornblende plagioclase glass	27.3 \pm 0.8 26.3 \pm 0.8 25.9 \pm 1.8 25.9 \pm 1.8 24.7 \pm 0.7		Steven, 1967
Quartz latite, S of Summitville, San Juan Mtns. sanidine biotite hornblende plagioclase	19.2 \pm 0.8 20.3 \pm 0.8 20.3 \pm 0.8 20.9 \pm 0.8		Steven, 1967
Rhyolite, Hinsdale Fm., WNW of Creede, San Juan Mtns. sanidine sanidine	22.9 \pm 0.6 22.0 \pm 0.6		Steven, 1967
Basalt, Hinsdale Fm., WNW of Creede, San Juan Mtns. plagioclase plagioclase	12.4 \pm 1.3 15.6 \pm 0.9		Steven, 1967
Concretion pegmatite, NW-1/4, sec. 5, T8N, R70W, Larimer Co. plagioclase, microcline		1760 \pm 80 (isochron)	Hedge, 1967
Schists and paragneisses (ten samples), Clear Creek Co., Jefferson Co., and Larimer Co. whole rock and mineral separates		1750 \pm 30 (isochron)	Hedge, 1967
Granites, orthogneisses, and amphibolites, Jefferson Co., whole rock and mineral separates		1710 \pm 70 (isochron)	Hedge, 1967
Granite gneiss (well core), sec. 26, T2S, R67W, Rocky Mountain Arsenal whole rock		1750 \pm 190 (isochron)	Hedge, 1967a

Ages Published in 1967

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
IDAHO				
Green Creek gneisses and schists, Albion Range whole rock		2460±300 (isochron)		Armstrong, 1967
Almo Pluton, Albion Range whole rock		30±3 (isochron)		Armstrong, 1967
Phyllite (Paleozoic) Albion Range, 42°26'23"N, 113°37'10"W whole rock	76.8			Armstrong, 1967
Schist (Paleozoic) Albion Range, 42°20'20"N, 113°40'20"W biotite-muscovite	75.7			Armstrong, 1967
Schist (Paleozoic) Albion Range, 42°15'0"N, 113°42'35"W muscovite	43.3			Armstrong, 1967
Schist (Paleozoic) Albion Range, 42°10'38"N, 113°42'12"W muscovite	28.7			Armstrong, 1967
Schist (Paleozoic) Albion Range, 42°20'18"N, 113°32'10"W muscovite	31.4			Armstrong, 1967
Schist (Paleozoic) Albion Range, 42°4'0"N, 113°39'40"W muscovite	25.7			Armstrong, 1967
Gneiss (Precambrian), Albion Range, 42°19'45"N, 113°36'05"W biotite	44.7			Armstrong, 1967
Schist (Precambrian), Albion Range, 42°18'3"N, 113°33'12"W biotite	54.0			Armstrong, 1967
Gneiss (Precambrian), Albion Range 42°18'3"N, 113°33'12"W biotite	79.0			Armstrong, 1967
Gneiss (Precambrian), Albion Range, 42°13'15"N, 113°35'55"W biotite	56.0			Armstrong, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
IDAHO (Cont'd)			
Schist (Precambrian), Albion Range, 42°13'15"N, 113°35'45"W biotite	134		Armstrong, 1967
Amphibolite (Precambrian), Albion Range, 42°13'15"N, 113°35'45"W hornblende	536		Armstrong, 1967
Gneiss (Precambrian), Albion Range, 42°11'05"N, 113°41'25"W biotite	68.9		Armstrong, 1967
Schist (Precambrian), Albion Range, 41°51'55"N, 113°28'55"W biotite	49.0		Armstrong, 1967
Gneiss (Precambrian), Albion Range, 41°55'50"N, 113°22'45"W biotite	66.6		Armstrong, 1967
Granodiorite, Almo Pluton, Albion Range, 42°2'30"N, 113°43'00"W biotite	21.5		Armstrong, 1967
Adamellite, Almo Pluton, Albion Range, 42°8'55"W, 113°40'10"W biotite	23.0		Armstrong, 1967
Leuco adamellite, Almo Pluton, Albion Range, 42°9'12"N, 113°40'0"W biotite	21.5		Armstrong, 1967
Adamellite, Almo Pluton, Albion Range, 42°4'05"N, 113°42'15"W biotite	22.1		Armstrong, 1967
	25.2		
Adamellite, Almo Pluton, Albion Range, 42°4'20"N, 113°42'30"W muscovite	23.8		Armstrong, 1967
Adamellite, Almo Pluton, Albion Range, 42°4'40"N, 113°43'0"W muscovite	25.0		Armstrong, 1967
Pegmatite, Almo Pluton, Albion Range, 42°5'15"N, 113°41'45"W muscovite	24.7		Armstrong, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Ph-α	Reference
IDAHO (Cont'd)			
Pegmatite, Almo Pluton, Albion Range, 42° 3' 52" N, 113° 43' 30" W muscovite	25.5		Armstrong, 1967
Pegmatite, Almo Pluton, Albion Range, 42° 4' 8" N, 113° 42' 2" W muscovite	25.9		Armstrong, 1967

Basalt, roadcut, SW-1/4, sec. 7, T45N, R1W, Spokane quad., Benewah Co. whole rock	3.1±0.8		Gray, 1967
Volcanic breccia (Lower Basalt), roadcut, E-1/2, sec. 30, T37N, R3W, Nez Perce Co. plagioclase (detritus)	97.1±2		Gray, 1967
Basalt (Lower Basalt), roadcut, E-1/2, sec. 30, T37N, R3W, Nez Perce Co. whole rock	24.9±4.0		Gray, 1967
Tuff in White Bird Lake Beds, roadcut, W-1/2, NE-1/4, sec. 12, T28N, R1E, Idaho Co. glass shards albite-andesine mixture	13.5±0.5 23.6±0.8		Gray, 1967
Basalt (Lower Basalt, Rock Creek Member), roadcut, SE-1/4, NE-1/4, sec. 32, T30N, R1E, Idaho Co. whole rock	21.3±0.6		Gray, 1967
Basalt (Upper Basalt, Lolo Creek Member), roadcut, SE-1/4, NE-1/4, sec. 22, T37N, R1W, Clearwater Co. whole rock whole rock	19.5±0.5 23.1±2.0		Gray, 1967
Basalt (Upper Basalt, Whiskey Creek Member), roadcut, NW-1/4, sec. 11, T36N, R2E, Clearwater Co. whole rock	19.5±0.6		Gray, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>ILLINOIS</u>				
Kimberlite, Grant farm, Hicks Dome, CWL, NW1/4, sec. 6, T12S, R8E				Zartman, 1967a
biotite (-10+20)	258 \pm 13			
hornblende (-20+40)	281 \pm 14			
Mica peridotite, sill at Downey's Bluff, 0.5' mi. S of Center of Rosiclare				Zartman, 1967 a
biotite (-40+80)	269 \pm 13	260 \pm 23		
<u>KANSAS</u>				
Mica peridotite, Silver City Dome, NW1/4, NE1/4, sec. 32, T26S, R15E				Zartman, 1967a
biotite (-10+20)	91 \pm 5			
Mica peridotite (drill core), Silver City Dome, NE1/4, NW1/4, sec. 32, T26S, R15E				Zartman, 1967a
biotite (-40+80)	90 \pm 5			
Mica peridotite (drill core), Rose Dome, NE1/4, SE1/4, sec. 13, T26S, R15E, <i>Woodson Co.</i>				Zartman, 1967a
biotite (-80+120)	88 \pm 4			

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>
<u>KENTUCKY</u>			
Mica peridotite (drill core), Adams property, Levias, 5.5 mi. WSW of Marion			Zartman, 1967a
biotite (-40+80)	252±13	279±27	
Kimberlite, 0.5 mi. S of Ison School, 8 mi. SW of Willard, Elliott Co.			Zartman, 1967a
biotite (-10+20)	279±14	---	
biotite (-20+40)	270±14	257±22	
<u>Maine</u>			
Mt. Agamenticus alkaline intrusives, southern York County			Hoefs, 1967
six whole rocks		227±3 (isochron)	
Granite to granodiorite, Wabhanet and Lyman Plutons, southern York County			Hoefs, 1967
three whole rocks		460 (isochron)	
<u>MASSACHUSETTS</u>			
Dedham Granodiorite (1 sample) and Westwood Granite (3 samples), Norfolk Co.			Fairbairn, 1967
whole rocks		591±28 (isochron)	
Granite (6 samples) at Hoppin Hill, Bristol Co.			Fairbairn, 1967
whole rocks		514±17 (isochron)	
Northbridge Gneiss (5 samples) and Milford Granite (1 sample), southern Worcester Co.			Fairbairn, 1967
whole rocks		569±4 (isochron)	
Gneiss (Monson gneiss), N side of Kelton Hill from S side of Route 2, Orange quad.			Brookins, 1967
whole rock		255±10 (isochron)	

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
<u>MICHIGAN</u>			
Rhyolite and basalt, quarry 1 mile west of Bergland (sec. 6, T48N, R42W) Ontonagon County whole rocks	1042±60 (isochron)		Chaudhuri, 1967
Felsite, Bergland Lookout Tower (sec. 5, T49N, R42W), Ontonagon County whole rocks	1100±25 (isochron)		Chaudhuri, 1967
Quartz-feldspar porphyry, road cut on M-64 south of White Pine (sec. 9, T49N, R42W), Ontonagon County whole rocks	978±40 (isochron)		Chaudhuri, 1967
Rhyolite, Government Peak in the Porcupine Mtns. (sec. 26, T51N, R43W), Ontonagon County whole rock	1042±32		Chaudhuri, 1967
Nonesuch Shale, White Pine Mine, Ontonagon County whole rocks	1075±50 (isochron)		Chaudhuri, 1967
Felsite pebble from lower sandstone unit of the Copper Harbor Conglomerate, Nonesuch Mine, Ontonagon County whole rock	1107		Chaudhuri, 1967
Rhyolite pebble from lower sandstone unit of the Copper Harbor Conglomerate, Nonesuch Mine, Ontonagon County whole rock	1180		Chaudhuri, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
MINNESOTA			
Diorite, Snowbank Stock, NE1/4, NE1/4, sec. 1, T63N, R9W, Lake Co. biotite	1040		Hanson, 1967
Lamprophyre in Knife Lake metasediments, NE1/4, SE1/4, sec. 32, T64N, R8W, Lake Co. biotite	1000		Hanson, 1967
Lamprophyre in Knife Lake metasediments, NE1/4, SE1/4, sec. 29, T64N, R8W, Lake Co. biotite	1560		Hanson, 1967
Quartz monzonite gneiss, Snowbank Stock, SW1/4, SE1/4, Sec. 1, T63N, R9W, Lake Co. biotite	1100		Hanson, 1967
Diorite gneiss, Knife Lake metasediments, SE1/4, NW1/4, sec. 6, T63N, R8W, Lake Co. biotite	1120		Hanson, 1967
Syenite, Snowbank Stock NW1/4, NW1/4, sec. 31, T64N, R8W, Lake Co. biotite	1160		Hanson, 1967
Quartz monzonite porphyry in Knife Lake metasediments, SW1/4, NW1/4, sec. 26, T64N, R9W, Lake Co. biotite	2450		Hanson, 1967
Metamorphosed conglomerate, Knife Lake, metasediments, SW1/4, SW1/4, sec. 29, T64N, R8W, Lake Co. biotite	1600		Hanson, 1967
Granodiorite, Snowbank Stock, SW1/4, NE1/4, sec. 3, T63N, R9W, Lake Co. biotite	2190		Hanson, 1967
Granodiorite, Snowbank Stock, SW1/4, SW1/4, sec. 35, T64N, R9W, Lake Co. biotite	1510		Hanson, 1967
Diorite, Snowbank Stock, NE1/4, SE1/4, sec. 35, T64N, R9W, Lake Co. biotite	2360		Hanson, 1967

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
MINNESOTA (Cont'd)				
Diorite, Snowbank Stock, NE1/4, SW1/4, sec. 36, T64N, R9W, Lake Co.				Hanson, 1967
biotite	2110	2010		
feldspar	1160			
Diorite, Snowbank Stock, NW1/4, SE1/4, sec. 36, T64N, R9W, Lake Co.				Hanson, 1967
biotite (1.8 mm)	2070	2160		
biotite (0.95 mm)	2100	2160		
biotite (0.41 mm)	1900	1920		
biotite (0.17 mm)	1520	1660		
biotite (0.41 reduced to 0.18 mm)	1910			
Monzonite, Snowbank Stock, NW1/4, NW1/4, sec. 31, T64N, R8W, Lake Co.				Hanson, 1967
biotite	2410	2300		
Diorite, Snowbank Stock, SW1/4, SW1/4, sec. 30, T64N, R8W, Lake Co.				Hanson, 1967
biotite		2180		
Diorite, Snowbank Stock, NE1/4, NE1/4, sec. 36, T64N, R9W, Lake Co.				Hanson, 1967
biotite		2150		
Diorite, Snowbank Stock, C of E side of sec. 35, T64N, R9W, Lake Co.				Hanson, 1967
biotite		2330		
Quartz monzonite, Snowbank Stock, SE C, sec. 35, T64N, R9W, Lake Co.				Hanson, 1967
biotite	1160	1110		
feldspar	1800	1220		
Monzonite or diorite, Snowbank Stock, SE1/4, NE1/4, sec. 11, T63N, R9W, Lake Co.				Hanson, 1967
biotite	1110	1040		
Monzonite, Snowbank Stock, SE1/4, SE1/4, sec. 2, T63N, R9W, Lake Co.				Hanson, 1967
feldspar	1060			
Monzonite, Snow Bank Stock, SW1/4, NW1/4, sec. 1, T63N, R9W, Lake Co.				Hanson, 1967
hornblende	2810			

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
MINNESOTA (Cont'd)				
Metamorphosed conglomerate, Knife Lake metasediments, NE1/4, NE1/4, sec. 31, T64N, R8W, Lake Co.				Hanson, 1967
biotite (0.26 mm)	1680	1520		
biotite (0.28 mm)		1690		
biotite (0.12 mm)	1320	1280		
Diorite, Snowbank Stock, SE1/4, NE1/4, sec. 31, T64N, R8W, Lake Co.				Hanson, 1967
biotite	1780	2010		
Diorite, Snowbank Stock, SE C of NE1/4, sec. 31, T64N, R8W, Lake Co.				Hanson, 1967
biotite	1280	1660		
Diorite, Snowbank Stock, SW1/4, SW1/4, sec. 36, T64N, R9W, Lake Co.				Hanson, 1967
biotite	1620	1620		
Diorite, Snowbank Stock, SW1/4, SW1/4, sec. 36, T64N, R9W, Lake Co.				Hanson, 1967
biotite	1920	1940		
feldspar	1390			
Diorite, Snowbank Stock, NE1/4, SE1/4, sec. 31, T64N, R8W, Lake Co.				Hanson, 1967
biotite		1160		
Quartz monzonite, Snowbank Stock, SE1/4, NE1/4, sec. 11, T63N, R9W, Lake Co.				Hanson, 1967
hornblende	1760			
Diorite, Snowbank Stock, SE1/4, NW1/4, sec. 1, T63N, R9W, Lake Co.				Hanson, 1967
biotite	1080			
Aplite, Knife Lake metasediments, NE1/4, NE1/4, sec. 9, T63N, R9W, Lake Co.				Hanson, 1967
muscovite	2450	2540		
Granodiorite, Snowbank Stock, SW1/4, NE1/4, sec. 3, T63N, R9W, Lake Co.				Hanson, 1967
biotite		1690		
hornblende	2550			

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
MINNESOTA (Cont'd)				
Porphyry in Knife Lake metasediments, SE1/4, NW1/4, sec. 26, T64N, R9W, Lake Co. biotite	2620			Hanson, 1967
Aplite from Snowbank Stock, NW1/4, SE1/4, sec. 24, T64N, R9W, Lake Co. muscovite	2620	2490		Hanson, 1967
Pegmatite from Snowbank Stock, SW1/4, SW1/4, sec. 26, T64N, R9W, Lake Co. muscovite feldspar		2560 2440		Hanson, 1967
Diorite, Snowbank Stock, NW1/4, NW1/4, sec. 31, T64N, R8W, Lake Co. biotite	1130	1360		Hanson, 1967
Aplite in Knife Lake metasediments, NW1/4, NW1/4, sec. 10, T63N, R9W, Lake Co. muscovite	1860	1920		Hanson, 1967
Diorite, Snowbank Stock, NW1/4, NE1/4, sec. 7, T63N, R8W, Lake Co. hornblende pyroxene feldspar	1400 2970 1060			Hanson, 1967
Monzonite, Snowbank Stock, SW1/4, NW1/4, sec. 12, T63N, R9W, Lake Co. hornblende	1770			Hanson, 1967
Aplite from Snowbank Stock, T64N, R9W, Lake Co. muscovite	2480			Hanson, 1967
Diorite, Snowbank Stock, NE1/4, SW1/4, sec. 20, T64N, R8W, Lake Co. biotite feldspar	2590 1570	2570		Hanson, 1967

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr	Pb- α	References
<u>Minnesota (Cont'd)</u>			
Hornblende-pyroxene gneiss, NW 1/4, sec. 4, T115N, R39W, Yellow Medicine County hornblende	2740		Hanson, 1967a
Diabase, SW 1/4, sec. 29, T116N, R39W, Yellow Medicine County hornblende	2080		Hanson, 1967a
Diabase, SW 1/4, NW 1/4, sec. 19, T116N, R39W, Yellow Medicine Cty. whole rock	1800		Hanson, 1967a
Andesite, SW 1/4, NW 1/4, sec. 19, T116N, R39W, Yellow Medicine Cty. hornblende	1720		Hanson, 1967a
Andesite, SE 1/4, sec. 20, T116N, R39W, Yellow Medicine County hornblende	1930		Hanson, 1967a
Andesite, SW 1/4, SW 1/4, sec. 28, T116N, R39W, Yellow Medicine Cty. hornblende biotite	1730 1770		Hanson, 1967a
Andesite, SW 1/4, NE 1/4, sec. 10, T115N, R39W, Yellow Medicine Cty. hornblende biotite	1690 1800		Hanson, 1967a

MISSOURI

Kimberlite, Cash Farm, S1/2, NW1/4, SW1/2, sec. 18, T35N, R8E, Ste. Genevieve Co. biotite (-10+20)	377 \pm 19	399 \pm 23	Zartman, 1967a
Kimberlite, bed of Saline Creek, NW1/4, SW1/4, SW1/4, Sec. 12, T35N, R7E, Ste. Genevieve Co. biotite (-10+20)	388 \pm 19	396 \pm 28	Zartman, 1967a

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Montana</u>				
Porphyritic perlite (Welded tuff) SEC, sec 15, TIN, R1W, Jefferson Co.				Robinson, 1967
biotite	74 \pm 4			
plagioclase	74 \pm 4			
glass	23 \pm 7			
	21 \pm 7			
	19 \pm 2			
Porphyritic perlite (welded tuff), quarry in E1/2, sec. 34, T15N, R4W, Wolf Creek quad., Lewis and Clark Co.				Robinson, 1967
biotite	73 \pm 2			
plagioclase	72 \pm 7			
glass	32 \pm 2			
Porphyritic perlite (welded tuff), NE-1/4, NE-1/4, sec. 15, T4(?)N, R5E, Maudlow quad., Gallatin Co.				Robinson, 1967
biotite	83 \pm 2			
plagioclase	71 \pm 7			
Biotitite, NE $\frac{1}{4}$, sec. 6, R30W, T31N, Lincoln Co.				Boettcher (1967)
biotite		94		
<u>NEVADA</u>				
Weary Flat Monzonite, Robinson Mining District near Ely				McDowell, 1967
hornblende	109 \pm 3			
Liberty Pit Monzonite, Robinson Mining District near Ely				McDowell, 1967
hornblende	107 \pm 3			
biotite	115 \pm 3			
Altered monzonite, Liberty Pit, Robinson Mining District near Ely				McDowell, 1967
biotite	111 \pm 3			
Altered monzonite, Emma Pit, Robinson Mining District near Ely				McDowell, 1967
biotite	109 \pm 3			
Rhyolite, Liberty Pit, Robinson Mining District near Ely				McDowell, 1967
biotite	37 \pm 1			

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>NEVADA</u> (Cont'd)				
Perlite near Anchorite Pass, Huntoon Valley quad.				Dalrymple, 1967
sanidine	3.32±0.10			
biotite	3.39±0.24			
sanidine	3.19±0.10			
biotite	3.45±0.17			
Andesite near Anchorite Pass, Huntoon Valley quad.				Dalrymple, 1967
biotite	3.46±0.14			
plagioclase	3.77±0.34			
Basalt near Anchorite Pass, Huntoon Valley quad.				Dalrymple, 1967
whole rock	3.50±0.11			
Basalt, Lousetown Fm., Lousetown Creek, near N. boundary, sec. 21, T18N, R21E				Dalrymple, 1967
whole rock	6.90±0.19			
Quartz latite vitrophyre, Schell Creek Range, approx. 39°09'30"N, 114°39'W				Drewes, 1967
zircon			50±10	
Quartz latite vitrophyre, Schell Creek Range, 39°06'20"N, 114°41'50"W				Drewes, 1967
biotite	38±4			
Dacite vitrophyre, Schell Creek Range, 39°09'50"N, 114°41'50"W				Drewes, 1967
biotite	36±4			

Monzonite dike, Liberty Pit, Robinson Mining District near Ely				McDowell, 1967
hornblende	103±3			
Lone Valley Monzonite, Robinson Mining District near Ely				McDowell, 1967
hornblende	109±3			
Liberty Pit Monzonite, Robinson Mining District near Ely				McDowell, 1967
hornblende	107±4			

Ages Published in 1967

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	References
<u>Nevada (Cont'd)</u>				
Granodiorite, Harrison Pass Pluton, 1-1/4 mi. S. of Harrison Pass Road at range crest, Jiggs quad, Elko Co.				Willden (1967)
biotite	31 \pm 3			
zircon			30 \pm 10	
Granodiorite, Harrison Pass Pluton, 1-1/2 mi. S. of Harrison Pass Road at range crest, Jiggs quad, Elko Co.				Willden (1967)
biotite	36 \pm 4			
zircon			40 \pm 10	
Granodiorite, Harrison Pass Pluton, 1/4 mi. N. of Harrison Pass Road at range crest, Jiggs quad, Elko County				Willden (1967)
biotite	29 \pm 3			
zircon			40 \pm 10	
Granodiorite, Harrison Pass Pluton, 3/4 mi. N. of Harrison Pass Road at range crest, Jiggs quad, Elko County				Willden (1967)
biotite	31 \pm 3			
zircon			40 \pm 10	

Ages Published in 1967

Rock type and location Material Dated	Age (m.y.) K-Ar	Rb-Sr	Pb-α	Reference
<u>New Hampshire</u>				
Border gneiss (Lebanon Dome), roadcut, 43°40.43'N, 72°14.32'W, Mascoma quad. whole rock		424		Naylor, 1967
Granite (Lebanon Dome), roadcut in Hanover, 43°42.03'N, 72°16.48'W whole rock		400		Naylor, 1967
Granite (Lebanon Dome), quarry in Lebanon, 43°39.12'N, 72°15.23'W whole rock whole rock		324 305		Naylor, 1967
Aplite (Lebanon Dome), roadcut near Lebanon, 43°39.91'N, 72°14.75'W whole rock whole rock whole rock whole rocks		421 434 426 440		Naylor, 1967 (isochron)
Granite (Lebanon Dome), roadcut near Lebanon, 43°39.91'N, 72°14.75'W whole rock whole rock plagioclase microcline microcline muscovite biotite biotite, plagioclase, & whole rock splits		433 431 446 321 329 323 252 250		Naylor, 1967 (isochron)
Leucocratic granite (Lebanon Dome), roadcut, 43°38.51'N, 72°16.09'W Hanover quad. whole rock whole rock whole rock		413 410 413		Naylor, 1967
Holts Ledge Gneiss (Mascoma Dome), 43°46.30'N, 72°05.07'W, Mt. Cube quad. whole rock		199		Naylor, 1967

Ages Published in 1967

Rock type and location Material Dated	Age (m.y.) K-Ar	Rb-Sr	Pb-α	Reference
New Hampshire (Cont'd)				
Quartz monzonite, Mascoma Group (Mascoma Dome), quarry, 43°41.16'N, 72°09.11'W, Mascoma quad. whole rock		233		Naylor, 1967
Aplite, Mascoma Group (Mascoma Dome), quarry, 43°41.16'N, 72°09.11'W, Mascoma quad. whole rock		325		Naylor, 1967
Quartz monzonite, Mascoma Group (Mascoma Dome), roadcut, 43°36.92'N, 72°06.14'W, Mascoma quad. whole rock muscovite biotite whole rock, muscovite, & biotite		359 284 256 252	(isochron)	Naylor, 1967
Mascoma Group (Mascoma Dome), quarry and roadcut, Mascoma quad. quartz monzonites & aplite		440±45	(isochron)	Naylor, 1967
Quartz monzonite, Mascoma Group (Mascoma Dome), quarry in Enfield 43°39.90'N, 72°08.67'W whole rock whole rock		528 474		Naylor, 1967
Granite, 43°34.48'N, 72°06.92'W, Mascoma quad. whole rock		342		Naylor, 1967
Quartz monzonite, Highlandcroft Series, roadcut, 44°19'N, 71°50'W, Littleton quad. whole rock		113		Naylor, 1967
Fairlee Quartz Monzonite, Highlandcroft Series, roadcut, 43°56.11'N, 72°07.22'W. Mt. Cube quad. whole rock whole rock whole rocks		411 437 450±40	(isochron)	Naylor, 1967

Ages Published in 1967

Rock type and location Material Dated	Age (m.y.) K-Ar	Rb-Sr	Pb- α	Reference
<u>New Hampshire (Cont'd)</u>				
Greenstone, Ammonoosuc Volcanics, roadcut near Littleton 44°19.63'N, 71°51.79'W				Naylor, 1967
whole rock		450		
whole rock		310		
whole rock		63		
Felsite, Ammonoosuc Volcanics, roadcut, 44°14.20'N, 71°53.00'W, Moosilauke quad.				Naylor, 1967
whole rock		376		
whole rock		430		
whole rock		431		
Greenstones and felsites, Ammonosuc Volcanics, Littleton area				Naylor, 1967
whole rocks (four)		440±30	(isochron)	
<u>NEW JERSEY</u>				
Mafic syenite, Ruten's Hill, 1 mi. WNW of Libertyville, Sussex Co.				Zartman, 1967 a
biotite (-20+40)	437±22	436±41		
Nepheline syenite, Kittatinny Mtn., 1.5 mi. N of center of Beemerville, Sussex Co.				Zartman, 1967 a
biotite (-40+80)	437±22	424±20		
zircon			520±60	

Ages Published in 1967

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>NEW MEXICO</u>				
Basalt, side of Rio Grande Gorge at bridge site, Hwy. 111				Ozima, 1967
whole rock (top flow)		{ 4.22 3.62		
whole rock (2nd flow down)		{ 3.68 3.67		
whole rock (3rd flow down)		2.43		
whole rock (4th flow down)		{ 3.70 3.73		
whole rock (5th flow down)		{ 4.05 4.04		
whole rock (bottom flow)		4.38		
Basalt, side of Rio Grande Gorge at Rio Taos site, Hwy. 96 (?)				Ozima, 1967
whole rock		{ 4.56 4.49		

Quartz latite of Santa Clara Canyon, near SE C, sec. 7, T20N, R6E				Dalrymple, 1967
plagioclase		5.50±0.82		
Andesite of Santa Clara Canyon, near NW C, sec. 7, T20N, R6E				Dalrymple, 1967
plagioclase		6.69±0.33		
Basalt of Polvadera Mesa				Dalrymple, 1967
whole rock		7.43±0.16		
Quartz latite near Polvadera Sawmill Camp, Polvadera Peak quad.				Dalrymple, 1967
plagioclase		5.03±0.13		
Rhyolite near El Rechuelos, Polvadera Peak quad.				Dalrymple, 1967
obsidian		2.02±0.06		
Rhyodacite, bottom of Canada del Ojitos, Polvadera Peak quad.				Dalrymple, 1967
plagioclase		6.64±0.17		
biotite		3.15±0.28		

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
<u>NEW MEXICO</u> (Cont'd)				
Dacite of Bland Canyon, NW1/4, sec. 6, T17N, R5E, plagioclase	8.87 \pm 0.19			Dalrymple, 1967
Rhyodacite near Rancho Canada, Canada quad. plagioclase	9.09 \pm 0.19			Dalrymple, 1967
Andesite, St. Peters Dome, Frijoles quad. plagioclase	8.46 \pm 0.38			Dalrymple, 1967
Rhyodacite of Cerro Grande, Bland quad. plagioclase	3.67 \pm 0.12			Dalrymple, 1967
Rhyodacite near Abiquiu Creek, Polvadera Peak quad. plagioclase	5.63 \pm 0.18			Dalrymple, 1967
Perlite, Grants Mesa, near center of N side, sec. 1; T11N, R9W sanidine	2.74 \pm 0.08			Dalrymple, 1967
Vein material, Mine Aplite stock, Questa Mine, Taos Range, Taos Co. biotite	21 \pm 3			Ishihara (1967)
Vein material, Lob Cabin stock, Questa Mine, Taos Range, Taos Co. biotite	23 \pm 3			Ishihara (1967)

Ages Published in 1967

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>NEW YORK</u>				
Kimberlite, quarry, 0.5 mi. NE of Portland Point, 8 mi. N of Ithaca				Zartman, 1967a
biotite (-10+20)	439 \pm 22			
biotite (-10+20)	493 \pm 25	136 \pm 8		
biotite (-10+20)	421 \pm 21			
	420 \pm 21			
biotite (-80+120)	145 \pm 7			
Kimberlite dike, at Power Plant on Canada Creek near Little Falls				Zartman, 1967a
biotite (-10+20)	371 \pm 19	118 \pm 15		
	258 \pm 13			
	255 \pm 13			
biotite (-10+20)	334 \pm 17			
	306 \pm 15	146 \pm 8		
	321 \pm 16			
biotite (-80+120)	150 \pm 8			
Shale, Hamilton Group, various localities whole rock				Bofinger (1967)
		384 \pm 9 (isochron)		
		377 \pm 11 (isochron)		
Kimberlite, Portland Point, near Ithaca				Watson, 1967a
phlogopite	155 \pm 4			

Ages Published in 1967

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>NORTH CAROLINA</u>				
Granite gneiss (sheared), drill core from Socony Mobil #1 State of North Carolina, Dare Co.				Denison, 1967
muscovite		520 \pm 30		
whole rock		585 \pm 40		
Gneissic granite, drill core from Socony Mobil #3 State of North Carolina, Hyde Co.				Denison, 1967
muscovite		590 \pm 30		
whole rock		610 \pm 60		
Altered rhyolite porphyry, drill core from Blair et al. #1 Weyerhaeuser, Camden Co.				Denison, 1967
whole rock		408 \pm 40		
Diabase, drill core from Socony Mobil #2 State of North Carolina, Dare Co.				Denison, 1967
biotite	356 \pm 7			
biotite	352 \pm 7			
Quartzite, drill core from Blair et al. #1 Twiford, Currituck Co.				Denison, 1967
muscovite	256 \pm 5			
muscovite	250 \pm 5			
Altered amphibolite, drill core from Blair et al. #1 Collins, Dare Co.				Denison, 1967
hornblende	384 \pm 8			
hornblende	383 \pm 8			

Gneiss, Ore Knob Mine, Ashe Co.				Kinkel, 1967
biotite (footwall) (0.5-2mm)	335	310		
biotite (hanging wall) (0.5-2mm)	345	320		
Gangue, Ore Knob Mine, Ashe Co.				Kinkel, 1967
biotite (\pm 5mm)	435	320		
biotite (\pm 5mm)	465	320		
hornblende	1120			

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>OREGON</u>				
Basalt, near dam on Crooked Creek, T33S, R40E				Dalrymple, 1967
whole rock	7.87±0.55			
whole rock	7.81±0.55			
Lower rhyolite tuff of Rattlesnake Fm., sec. 27, T12S, R25E				Dalrymple, 1967
anorthoclase	6.69±0.20			
Welded tuff, upper tuff of Rattlesnake Fm., sec. 27, T12S, R25E				Dalrymple, 1967
anorthoclase	5.95±0.18			
Rhyolite welded tuff of Drewsey Fm. near Drinkwater Pass, T20S, R36E				Dalrymple, 1967
sanidine	9.15±0.19			
Rhyolite tuff on Twelve Mile Creek, T36S, R40E				Dalrymple, 1967
sanidine	15.81±0.40			
Rhyolite tuff on Battle Creek, T37S, R43E				Dalrymple, 1967
sanidine	13.56±0.28			
Steens Basalt, type section, Steens Mtn., SW Oregon				Coe, 1967
(?)	15.1			
Basalts, six lava flows on Steens Mtn., 42°40'N, 118°33'W				Baksi, 1967
whole rocks (19 specimens)	15.1±0.3			
	avg. of 28 determinations			
<u>PENNSYLVANIA</u>				
Kimberlite, Middle Run, 0.25 mi. N of Adah, Fayette Co.				Zartman, 1967 a
biotite (-10+20)	368±18			
	408±20			

Ages Published in 1967

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>SOUTH DAKOTA</u>				
Granite and pegmatite in sec. 3, 11, and 12, T5N, R5E, Lawrence Co. approx. 44° 15' N, 103° 30' W whole rocks		1840±70 (isochron)		Zartman, 1967
<u>TENNESSEE</u>				
Gangue, Ducktown biotite	1200			Kinkel, 1967
Gangue, Boyd Mine, Ducktown, 35°03' N, 84°22' W hornblende	387			Kinkel, 1967
Gangue, Calloway Mine, Ducktown, 35°03' N, 84°22' W hornblende	1045			Kinkel, 1967
Hornblendite (drill core), Eureka Mine, Ducktown, 35°03' N, 84°22' W hornblende	478			Kinkel, 1967
<u>UTAH</u>				
Altered monzonite (?), Bingham district, approx. 40° 31' 30" N, 112° 10' W biotite	36			Stacey, 1967

Ages Published in 1967

Rock type and location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
<u>Vermont</u>				
Lamprophyre dike, west shore of Grand Isle, 1.5 mi. W of South Hero				Zartman, 1967 _a
biotite (-40+80)	136 \pm 7			
Granite, 43°29.01'N, 72°42.92'W, Ludlow quad.				Naylor, 1967
whole rock		1050		
whole rock		1360		
whole rock		855		
Schist (Green Mountain Anticlinorium), roadcut at Buttermilk Falls, 43°26.11'N, 72° 43.89'W, Ludlow quad.				Naylor, 1967
whole rock		787		
whole rock		730		
whole rock		696		
whole rock		720		
4 whole rocks		720	(isochron)	
Pegmatite (Green Mountain Anticlinorium), roadcut at Buttermilk Falls, 43°26.11'N, 72° 43.89'W, Ludlow quad.				Naylor, 1967
Muscovite (center of 10 mm thick book)		1072		
" (near center of book)		1037		
" (outer edge of book)		1021		
muscovite (center of 6mm thick Book)		998		
muscovite (2mm flakes)		920		
Gneiss (Mt. Holly Complex), roadcut, 43°22.06'N, 72°47.48'W, Wallingford quad.				Naylor, 1967
whole rock		1470		
muscovite		488		
biotite		312		
muscovite		456		
Gneiss (core of Chester Dome), roadcut, near Gassetts, 43°19.07'N, 72°36.52'W, Ludlow quad.				Naylor, 1967
biotite		387		
biotite		322		
biotite		282		

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>VIRGINIA</u>				
Pegmatite, Amelia muscovite albite	254 384 (excess argon)			Livingston, 1967

Gangue, Gossan Lead (Monarat) Mine, Carroll Co. muscovite	430	310		Kinkel, 1967
Gangue, London-Virginia Mine, Buckingham Co. biotite	300			Kinkel, 1967
Gangue, Sulphur Mine, Louisa Co. biotite-muscovite hornblende	365 330			Kinkel, 1967
Gangue, Arminius Mine, Louisa Co. biotite	305			Kinkel, 1967

Nepheline syenite, road cut 3 mi. NE of center of Staunton biotite (-40+80) hornblende (-40+80)	145 \pm 7 153 \pm 8	114 \pm 12		Zartman, 1967a

Ages Published in 1967

Rock type & Location Material Dated	Age (m.y.)		Pb-α	Reference
	K-Ar	Rb-Sr		
WASHINGTON				
Yakima Basalt, roadcut, NE 1/4, sec. 11, T28N, R30E, Grand Coulee, Grant Co., Ritzville quad.				Gray, 1967
whole rock (lower flow)	16.8±0.5			
whole rock (upper flow)	15.7±0.4			
Yakima Basalt, near mouth of Deep Creek Canyon, T26N, R42E, Spokane quad., Spokane Co.				Gray, 1967
whole rock	13.0±0.5			
Yakima Basalt, roadcut of S side of 16th Street, NE-1/4, sec. 26, T25N, R42E, Spokane quad. Spokane Co.				Gray, 1967
whole rock	12.1±0.6			
Yakima Basalt, railroad cut, NW-1/4, sec. 25, T25N, R42E, Spokane quad., Spokane Co.				Gray, 1967
whole rock	13.8±0.5			
Basalt dike, Ideal Cement Co. quarry NE-1/4, SE-1/4, sec. 24, T25N, R44E, Spokane quad., Spokane Co.				Gray, 1967
whole rock	7.9±0.9			
Yakima Basalt, SEC, sec. 24, T25N, R44E, Spokane quad., Spokane Co.				Gray, 1967
whole rock	20.6±0.7			

Granodiorite, Cloudy Pass batholith, Holden Quad.				Cater, 1967
biotite	20 ±2			
biotite	22 ±2.2			
biotite (48°12.45'N, 120°52.65'W)	22.8±0.9			
zircon			20±20	
zircon			30±20	
Granodiorite or quartz diorite, Duncan Hill pluton, Holden quad., Chelan Co.				Cater, 1967
biotite 48°07.90'N, 120°53.98'W	45±2			
hornblende	44.8±2			

Ages Published in 1967

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>WASHINGTON</u> (Cont'd)				
Dacite of Old Gib Mtn., Holden quad., Chelan Co. biotite(?)	43.4±1.5			Cater, 1967
Quartz diorite or granodiorite, Clark Mtn. plutons, Holden quad., Chelan Co. biotite (48°02.62'N, 120°55.95'W)	56.2±2.2			Cater, 1967
biotite (48°02.87'N, 120°56.20'W)	57.1±2.3			
muscovite (48°02.87'N, 120°56.20'W)	59.2±2.4			
<u>WYOMING</u>				
Dolerite dike, Beartooth Mtns., approx. 44°58'N, 109°26'W whole rock	776			Hanson, 1967
Amphibolite, Beartooth Mtns., approx. 44°58'N, 109°26'W				Hanson, 1967
biotite	819			
hornblende	1480			
biotite	758			
hornblende	2340			
biotite	1050			
hornblende	2510			
biotite	1250	1360		
hornblende	2650			
biotite		1820		
biotite		1780		
biotite	2180	1950		
biotite	2290	2300		
hornblende	2610			
biotite	2610	2350		

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Ages Published in 1968

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
		<u>Alaska</u>		6
Granite (Romanzof Granite), Brooks Range, 69°21.8'N, 144°01.8'W				Reed (1968)
Biotite	128			
Zircon			310	
Granite (Romanzof Granite), Brooks Range, 69°21.1'N, 144°04.6'W				Reed (1968)
Biotite	125			
Zircon			405	
Basalt?, Nunivak Island Anorthoclase	0.09±0.02			Hoare, 1968

37 other ages were listed by Hoare and others, 1968, but these ages have been already listed under Alaska for the year 1967, Dalrymple (1967) and Cox (1967); therefore, they are not again listed here.

Ages Published in 1968

Rock type and location Material Analyzed	Age (m.y.)		Reference
	K-Ar	Rb-Sr	Pb- α
<u>Arizona</u>			
Basalt, north side of Grand Canyon below Volcan's Throne whole rock	1.16 \pm 0.18		McKee (1968)
Welded rhyolite tuff, Rhyolite Canyon Fm.(member No.8),Chiricahua Natl. Monument, Cochise County sanidine	24.9 \pm 0.7		Marjaniemi (1968)
Welded rhyolite tuff, Rhyolite Canyon Fm.(member No.6),Chiricahua Natl. Monument, Cochise County sanidine(-20+35 mesh)	16.2 \pm 1.6(too low)		Marjaniemi (1968)
sanidine(-65+100 mesh)	24.1 \pm 0.7		
Welded rhyolite tuff, Rhyolite Canyon Fm.(member No.2),Chiricahua Natl. Monument,Cochise County sanidine	25.0 \pm 0.8		Marjaniemi (1968)
Rhyodacite flow,Faraway Ranch Fm. (member No.7),Chiricahua Natl. Monument, Cochise County biotite	27.9 \pm 2.0		Marjaniemi (1968)
"	27.6 \pm 0.8		
Turkey Track porphyry dike, Del Bac Hills,SW of Tucson plagioclase	46.4 \pm 1.4(excess argon)		Percious (1968)
Turkey Track porphyry flow, Del Bac Hills,SW of Tucson plagioclase(HF leach)	27.3 \pm 0.8		Percious (1968)
plagioclase	26.3 \pm 0.8		
groundmass	26.9 \pm 0.8		
Basaltic andesite flow, Martinez Hill in Del Bac Hills,SW of Tucson whole rock	23.5 \pm 0.7		Percious (1968)
Basaltic andesite flow, Del Bac Hills,SW of Tucson whole rock	24.7 \pm 0.7		Percious (1968)

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Arizona (Cont'd)</u>				
Basaltic andesite flow, Del Bac Hills, SW of Tucson whole rock	24.8 \pm 0.7			Percious (1968)
Basaltic andesite flow, Del Bac Hills, SW of Tucson whole rock	23.7 \pm 1.0			Percious (1968)
Gneissic quartz monzonite, Eaton Gneiss, Dos Cabezas Mtns., Cochise County four whole rock		1443 \pm 30 isochron		Erickson (1968)
Gneissic quartz monzonite, Rough Mountain Gneiss, Dos Cabezas Mtns., Cochise Cty. whole rock (?)		1425 \pm 45 isochron		Erickson (1968)
Quartz monzonite, Polecat Pluton, northern Dos Cabezas Mtns., Cochise County whole rock-mineral isochron biotite	1010 \pm 30	1000		Erickson (1968)
Rapakivi quartz monzonite, Dos Cabezas Pluton, southern Dos Cabezas Mtns., Cochise Cty. four whole rocks		1375 \pm 40 isochron		Erickson (1968)
Gneiss quartz monzonite, Sommer Gneiss, Dos Cabezas Mtns., Cochise County biotite	1100 \pm 20			Erickson (1968)
Amphibolite, western Dos Cabezas Mtns., Cochise Cty. hornblende	1180 \pm 35			Erickson (1968)
Quartz diorite, Cowboy Stock, Dos Cabezas Mtns., Cochise Cty. biotite	59.0 \pm 1.8			Erickson (1968)
Quartz diorite, Silver Camp Stock, Dos Cabezas Mtns., Cochise County biotite	62.4 \pm 1.9			Erickson (1968)

Ages Published in 1968

Rock type and location Material Analyzed	Age (m.y.) K-Ar	Rb-Sr	Pb-α	Reference
Arizona (Cont'd)				
Quartz monzonite, Maverick Stock, northern Dos Cabezas Mtns., Cochise County biotite	55.9±1.7			Erickson (1968)
Olivine basalt dike, western Dos Cabezas Mtns., Cochise County whole rock	47.6±1.4			Erickson (1968)
Andesite, "Turkey Track" dike, Dos Cabezas Mtns., Cochise Cty. plagioclase	35.2±3.1			Erickson (1968)
Dacite dike, Dos Cabezas Mtns., Cochise County whole rock	33.9±1.9			Erickson (1968)
Granodiorite, Ninemile Stock, southeastern Dos Cabezas Mtns., Cochise County biotite	29.0±1.7			Erickson (1968)
Pinal Schist, Gila County muscovite(metamorphic) muscovite(pegmatitic)	1385 1610			Damon (1968a)
Madera quartz diorite, Gila County whole rock (?)		1630 isochron		Damon (1968a)
Yavapai Schist, Yavapai County biotite muscovite muscovite(pegmatite)	1156 1440 1555			Damon (1968a)
Chino Creek Granite, Yavapai County biotite muscovite	1330 1460			Damon (1968a)
Oracle Granite, Pinal County biotite muscovite(pegmatitic)	1420 1420			Damon (1968a)

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Arizona (Cont'd)</u>				
Rhyolite, Deception Rhyolite, approx. 34°38'N, 112°07'W 4 whole rocks (isochron)		1610 \pm 85		Lanphere (1968a)
Dacite of Burnt Canyon, approx. 34°39'45"N, 112°09'W whole rock (part of isochron)		1640 \pm 38		Lanphere (1968a)
Rhyolite, Deception Rhyolite, approx. 34°37'30"N, 112°05'30"W whole rock (part of isochron)		1640 \pm 38		Lanphere (1968a)
Rhyolite, Deception Rhyolite, approx. 34°43'30"N, 112°07'W whole rock (part of isochron)		1640 \pm 38		Lanphere (1968a)
Volcanics, Green Gulch Volcanics approx. 34°39'15"N, 112°13'45"W 3 whole rocks (isochron)		1525 \pm 80		Lanphere (1968a)
Volcanics, Iron King Volcanics, approx. 34°22'N, 112°16'W 3 whole rocks (isochron)		1580 \pm 50		Lanphere (1968a)
Volcanics, Iron King Volcanics, approx. 34°24'30"N, 112°14'30"W 3 whole rocks (isochron)		1310 \pm 103		Lanphere (1968a)
Quartz diorite, approx. 34°32'N, 112°06'30"W biotite hornblende	1688 1693			Lanphere (1968a)
Quartz diorite, approx. 34°34'30"N, 112°04'W biotite hornblende	1692 1630 1615			Lanphere (1968a)
Brahma Schist, Coconino County muscovite (pegmatitic) biotite	1410 1240			Damon (1968a)

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
	ARIZONA (Cont'd)			
Muggins Mountain Tuff, Yuma County, 32°45'17"N, 114°07'54"W biotite			21.9 ± 0.9	Damon, 1968
Turkey-track porphyry, pillow lava in Helmet Fanglomerate west of Twin Buttes, Pima Co., 31°57'06"N, 111°04'30"W plagioclase			30.7 ± 1.2	Damon, 1968
Moonstone Rhyolite, Greenlee Co., 33°36'57"N, 109°07'44"W sanidine			24.9 ± 0.7	Damon, 1968
basaltic andesite, Greenlee Co., 33°27'04"N, 109°22'38"W whole rock			23.3 ± 0.7	Damon, 1968
latite-rhyolite, Greenlee Co., 33°23'35"N, 109°12'45"W biotite			23.4 ± 0.7	Damon, 1968
Blue Mountain basalt, Coconino Co., 35°35'54"N, 113°13'20"W whole rock			14.2 ± 1.1	Damon, 1968
Verde Valley basalt, Yavapai Co., 34°44'10"N, 111°47'01"W whole rock			13.6 ± 1.6	Damon, 1968
Mingus Mountain basalt, Yavapai Co., 34°42'10"N, 112°08'21"W whole rock			12.9 ± 0.8	Damon, 1968
Black Hills basalt, Yavapai Co., 34°32'07"N, 111°56'14"W whole rock			12.8 ± 2.2	Damon, 1968
Casner Mountain basalt, Yavapai Co., 34°57'53"N, 111°59'08"W whole rock			11.9 ± 1.3	Damon, 1968
Cottonwood Wash basal basalt, Mohave Co., 36°37'37"N, 113°53'23"W whole rock			6.70 ± 0.20	Damon, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>ARIZONA</u> (Cont'd)				
Oak Creek Canyon basal basalt, Coconino Co., 35°01'33"N, 111°44'22"W whole rock	5.88 ± 0.91			Damon, 1968
Seg Miller Mountain basalt, Mohave Co., 36°50'46"N, 113°32'26"W whole rock	5.2 ± 1.3			Damon, 1968
basalt, Coconino Co., 35°39'32"N, 111°35'03"W whole rock	1.83 ± 0.07			Damon, 1968
Gneiss, Catalina Mts., Pima Co., 32°20.6'N, 110°55.4'W muscovite	31.2 ± 0.9			Mauger, 1968
Gneiss, Catalina Mts., Pima Co., 32°20.3'N, 110°41.4'W muscovite	31.2 ± 0.9			Mauger, 1968
Quartz monzonite gneiss, Tortolita Mts., Pima Co., 32°28'N, 111°05'W biotite	27.3 ± 0.9			Mauger, 1968
Granodiorite, Copper Basin, central Arizona biotite(?)	64			Anderson, 1968
Granodiorite, Walker, central Arizona biotite(?)	64			Anderson, 1968
Granodiorite, Big Bug Creek, central Arizona biotite(?)	70			Anderson, 1968
Lost Gulch Quartz monzonite, Globe-Miami, central Arizona biotite(?)	64			Anderson, 1968
Schultze Granite, Globe-Miami, central Arizona biotite(?)	60			Anderson, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>ARIZONA</u> (Cont'd)				
Granite porphyry, Globe-Miami, central Arizona biotite(?)	62			Anderson, 1968
Border facies of Willow Spring granodiorite, Globe-Miami, central Arizona biotite(?)	117			Anderson, 1968
Altered granodiorite porphyry, San Manuel, north of Tucson biotite(?)	67			Anderson, 1968
Gleeson Quartz monzonite, Gleeson, SE Arizona biotite(?)	178			Anderson, 1968
Diorite porphyry, Christmas mine, Banner Mining District, Gila Co. biotite	62			Eastlick, 1968
Flattop basaltic andesite, sec. 5, T9S, R31E whole rock	27.5±0.8			Elston, 1968
Madera Quartz Diorite, Pinal Mountains biotite	1660			Livingston, 1968
whole-rock		1775(isochron)		
whole-rock and minerals		1630(isochron)		
Rhyolite, Pinal Schist, at Ray whole-rock		1360(isochron) 1660(isochron)		Livingston, 1968
Oracle Granite, on San Pedro River between Winkelman and Mammoth muscovite, biotite, plagioclase		1420(isochron)		Livingston, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr		Pb-α	Reference
<u>CALIFORNIA</u>				
Rhyolite, southwest of Punch Bowl, Mono Craters, Mono Co. sanidine "	0.0077±0.0004 0.0069±0.001			Dalrymple, 1968
Rhyolite, southwest of Punch Bowl, Mono Craters, Mono Co. sanidine	0.0087±0.0014			Dalrymple, 1968
Rhyolite, north of Punch Bowl, Mono Craters, Mono Co. sanidine sanidine	0.0068±0.0014 0.0061±0.0012			Dalrymple, 1968
Rhyolite, 1 mile south of Crater Mt., Mono Craters, Mono Co. sanidine sanidine	0.0029±0.0028 0.0068±0.002			Dalrymple, 1968
Rhyolite, about 1 mile NE of Punch Bowl, Mono Craters, Mono Co. sanidine sanidine	0.0069±0.0016 0.0063±0.0014			Dalrymple, 1968
Rhyolite, in Punch Bowl, Mono Craters, Mono Co. sanidine sanidine sanidine	0.0115±0.0029 0.009±0.0018 0.0109±0.0042			Dalrymple, 1968
Rhyolite, a mile NE of Punch Bowl, Mono Craters, Mono Co. sanidine sanidine sanidine	0.0062±0.0031 0.0047±0.0034 0.0124±0.0039			Dalrymple, 1968
Rhyolite, 1-1/2 miles NE of Punch Bowl, Mono Craters, Mono Co. sanidine	0.0124±0.0042			Dalrymple, 1968
Rhyolite, dome north of Deer Mtn., Inyo Craters, Mono Co. sanidine	0.0039±0.0013			Dalrymple, 1968

Ages Published in 1968

Rock type and Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>CALIFORNIA</u> (Cont'd)				
Rhyolite, Crater Mtn., Mono Craters, Mono Co.				Dalrymple, 1968
sanidine		0.0082+0.0009		
sanidine		0.0037+0.003		
sanidine		0.0104+0.0014		
Rhyolite, 1/2 mile N of Crater Mtn., Mono Craters, Mono Co.				Dalrymple, 1968
sanidine		0.0084+0.0024		
sanidine		0.0091+0.001		
Granodiorite, near the center of the Cartridge Pass Pluton				Dodge (1968)
biotite	81+3			
Schist(Salmon Hornblende Schist?) 40°35'45"N, 122°48'W				Lanphere (1968)
hornblende	182+10			
Schist(Abrams Mica Schist?) 46°36'15"N, 122°58'30"W				Lanphere (1968)
muscovite	309			
Schist(Salmon Hornblende Schist?) 40°37'N, 122°58'30"W				Lanphere (1968)
hornblende	286			
Schist(Abrams Mica Schist?) 40°37'N, 122°56'45"W				Lanphere (1968)
biotite	135			
Schist(Abrams Mica Schist) 40°39'N, 122°56'30"W				Lanphere (1968)
muscovite	329			
muscovite	329			
Schist(Salmon Hornblende Schist) 40°44'30"N, 122°59'45"W				Lanphere (1968)
hornblende	270			
Schist(Salmon Hornblende Schist?) 40°46'45"N, 123°02'45"W				Lanphere (1968)
hornblende	273			
Schist(Abrams Mica Schist) 41°07'N, 122°53'W				Lanphere (1968)
muscovite	262			
Schist(Salmon Hornblende Schist?) 41°08'N, 122°54'30"W				Lanphere (1968)
hornblende	229+30			

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>California (Cont'd)</u>				
Abrams Mica Schist, Weaverville area, Klamath Mtns. whole rocks and muscovite		379 \pm 11 (isochron)		Lanphere (1968)
Abrams Mica Schist, Coffee Creek area, Klamath Mtns. whole rocks and muscovite		380 (isochron)		Lanphere (1968)
Schist of Condry Mountain, 42°00'N, 122°55'W muscovite	141			Lanphere (1968)
Amphibolite, 41°55'N, 122°50'W hornblende	148			Lanphere (1968)
Amphibolite, 41°50'N, 122°50'W hornblende	146			Lanphere (1968)
Phyllite, Stuart Fork Fm., 41°13'30"N, 122°57'W whole rock	158			Lanphere (1968)
Metavolcanic, Stuart Fork Fm., 41°07'30"N, 122°55'30"W actinolite	133			Lanphere (1968)
Phyllite, 40°46'30"N, 123°07'30"W whole rock	191			Lanphere (1968)
Phyllite (Stuart Fork Fm.?) 40°32'30"N, 122°55'30"W whole rock	240			Lanphere (1968)
Phyllite (Stuart Fork Fm.?) 40°32'30"N, 122°56'W whole rock	148			Lanphere (1968)
Granodiorite, Castle Crags Pluton, 41°09'N, 122°21'W biotite hornblende	158 224			Lanphere (1968)

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
California (Cont'd)				
Granodiorite, Castle Crags Pluton, 41°11'30"N, 122°19'W				Lanphere (1968)
biotite	163			
hornblende	171			
Granodiorite, Castle Crags Pluton, 41°11'30"N, 122°19'W				Lanphere (1968)
biotite	132			
"	133			
Granodiorite, Pit River Pluton, 40°45'N, 122°19'W				Lanphere (1968)
hornblende	246			
Diorite, Ironside Mtn. Batholith, 40°47'N, 123°25'W				Lanphere (1968)
biotite	167			
Syenodiorite, Ironside Mtn. Batholith, 41°05'30"N, 123°34'W				Lanphere (1968)
biotite	165			
Diorite, Fork of Salmon Pluton, 41°16'N, 123°18'30"W				Lanphere (1968)
hornblende	167			
Diorite, English Peak Pluton, 41°17'30"N, 123°15'W				Lanphere (1968)
biotite	155			
hornblende	157			
Diorite(?), Wooley Creek Batholith, 41°20'30"N, 123°22'30"W				Lanphere (1968)
biotite	154			
Diorite(?), Wooley Creek Batholith, 41°21'N, 123°24'W				Lanphere (1968)
biotite	154			
hornblende	152			
Diorite(?), Slinkard Pluton, 41°50'N, 123°09'W				Lanphere (1968)
biotite	147			
hornblende	153			
Diorite, Ashland Pluton, 42°00'N, 122°45'W				Lanphere (1968)
biotite	147			
hornblende	146			

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>California (Cont'd)</u>				
Diorite, Ashland Pluton, 41°55'N, 122°45'W biotite	133			Lanphere (1968)
Diorite, Vesa Bluffs Pluton, 41°50'N, 122°45'W biotite hornblende	146 160			Lanphere (1968)
Trondhjenite, Craggy Peak Pluton, 41°13'30"N, 122°43'W biotite	133			Lanphere (1968)
Diorite, Sugar Pine Pluton, 41°07'N, 122°48'W biotite hornblende	136 134			Lanphere (1968)
Granodiorite, Shasta Bally Batholith, 40°40'N, 122°47'W biotite hornblende	132 128			Lanphere (1968)
Granodiorite(?), Shasta Bally Batholith, 40°41'N, 122°45'W biotite hornblende	131 130			Lanphere (1968)
Gabbro, Klamath Mtns., 41°07'N, 122°51'W hornblende	333 \pm 16			Lanphere (1968)
Gabbro, Klamath Mtns., 41°17'N, 122°43'30"W hornblende	439 \pm 18			Lanphere (1968)
Gabbro, Klamath Mtns., 41°17'N, 122°44'W hornblende	418 \pm 17			Lanphere (1968)
Porphyritic quartz monzonite, center sec. 36, T6S, R38E biotite	155 \pm 3			McKee (1968a)
Porphyritic quartz monzonite, WC, sec. 15, T6S, R37E biotite	161 \pm 4			McKee (1968a)

Ages Published in 1968

Rock type and location Material Analyzed	Age (m.y.) K-Ar Rb-Sr Pb- α	Reference
California (Cont'd)		
Rhyolitic tuff(?), Fish Lake Valley, NE 1/4, sec. 3, T7S, R38E biotite	4.3 \pm 0.2	McKee (1968a)
Rhyolitic tuff(?), Fish Lake Valley, center sec. 3, T7S, R38E sanidine	3.5 \pm 0.2	McKee (1968a)
Rhyolitic tuff(?), Horse Thief Canyon, NW 1/4, sec. 17, T7S, R38E biotite	5.7 \pm 0.2	McKee (1968a)
Vitric tuff in Bouse Fm., Imperial County, 33°06'29"N, 114°52'22"W glass	3.0 \pm 1.2	Damon (1968)
Andesite, Chocolate Mtns., Imperial County, 32°56'56"N, 114°33'12"W hornblende	24.7 \pm 2.1	Damon (1968)
Schist, along Ebabias Creek near Valley Ford, Sonoma Co. albite glaucoaphane jadeitic pyroxene	80.4 \pm 20.1 75.1 \pm 7.5 40.5 \pm 4.0	Keith, 1968
Lomita Marl Member of the San Pedro Fm., quarry, Palos Verdes Hills, approx. 33°48'01"N, 118°21'18"W glauconite	3.04 \pm 0.09 m.y. average of several determinations	Obradovich, 1968 a
Obsidian, sec. 17, T2S, R30E, Glass Mtn. sanidine	0.9 \pm 0.1	Gilbert, 1968
Andesite, SE1/4, sec. 25, T4N, R28E, Trench Canyon quad. plagioclase	1.0 \pm 0.1	Gilbert, 1968
Andesite, SW1/4, sec. 30, T4N, R29E, Trench Canyon quad. plagioclase	2.7 \pm 0.8	Gilbert, 1968
Andesite, SEC of NW1/4, sec. 30, T4N, R29E, Trench Canyon quad. plagioclase	2.8 \pm 0.4	Gilbert, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>California</u> (Cont'd)				
Pumice, center of sec. 30, T4N, R29E, Trench Canyon quad. biotite	2.7±0.2			Gilbert, 1968
Andesite, center of NW1/4, sec. 30, T4N, R29E, Trench Canyon quad. plagioclase	6.2±2.5			Gilbert, 1968
Andesite, SE1/4, sec. 23, T4N, R28E Trench Canyon quad. plagioclase biotite	2.5±0.3 2.5±0.1			Gilbert, 1968
Andesite, sec. 15, T4N, R28E, Trench Canyon quad. biotite biotite plagioclase	3.4±0.3 3.1±0.3 2.3±1.6			Gilbert, 1968
Andesite, NW1/4, sec. 4, T3N, R27E, Bodie quad. plagioclase	3.2±0.7			Gilbert, 1968
Andesite, N1/2, sec. 28, T4N, R28E, Trench Canyon quad. plagioclase	3.6±0.4			Gilbert, 1968
Rhyolite ash, W1/2, sec. 35, T3N, R29E, Trench Canyon quad. biotite	3.3±0.1			Gilbert, 1968
Basalt, NWC of sec. 5, T2N, R29E, Trench Canyon quad. whole rock	4.2±2.1			Gilbert, 1968
Basalt, SW1/4, sec. 26, T5N, R27E, Aurora quad. whole rock	2.8±0.1			Gilbert, 1968
Bodie andesite, E1/2, sec. 22, T4N, R27E, Trench Canyon quad. plagioclase	8.9±0.2			Gilbert, 1968
Bodie andesite, E1/2, sec. 26, T4N, R25E, Bodie quad. plagioclase	7.8±0.2			Gilbert, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
California (Cont'd)			
Bodie andesite, E1/2, sec. 3, T4N, R26E, Bodie quad. plagioclase	8.4±0.2		Gilbert, 1968
Quartz porphyry, NE1/4, NE1/4, sec. 3, T3N, R26E, Bodie quad. plagioclase biotite	9.5±0.3 9.3±0.3		Gilbert, 1968
Latite, NE1/4, sec. 25, T3N, R26E, Bodie quad. biotite	9.8±0.2		Gilbert, 1968
Latite, SW1/4, sec. 34, T5N, R27E, Trench Canyon quad. biotite biotite	9.5±0.3 9.6±0.3		Gilbert, 1968
Latite, sec. 24, T3N, R29E, Huntton Valley quad. biotite	11.3±0.2		Gilbert, 1968
Latite, SWC of NW1/4, sec. 15, T3N, R29E, Trench Canyon quad. plagioclase biotite	11.7±0.8 11.4±0.2		Gilbert, 1968
Latite, SW1/4, SW1/4, sec. 15, T3N, R29E, Trench Canyon quad. sanidine (40 ft. above following sanidine) sanidine	11.1±0.2 11.2±0.2		Gilbert, 1968
Latite, SEC of SW1/4, sec. 36, T2N, R29E, Glass Mtn. Quad. biotite biotite	11.5±0.3 11.2±0.3		Gilbert, 1968
Latite, SE1/4, sec. 13, T1N, R28E, Cowtrack Mtn. quad. sanidine	11.9±0.2		Gilbert, 1968
Andesite, N1/2, sec. 3, T5N, R27E, Aurora quad. plagioclase	12.5±0.3		Gilbert, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar California	Rb-Sr (Cont'd)		
Rhyolite, center of sec. 14, T3N, R29E, Huntoon Valley quad. sanidine	23.6 \pm 0.4			Gilbert, 1968
Rhyolite, sec. 14, T3N, R29E, Huntoon Valley quad. sanidine	22.3 \pm 0.3			Gilbert, 1968
plagioclase	22.0 \pm 2.0			
Rhyolite, sec. 14, T3N, R29E, Huntoon Valley quad. plagioclase	23.6 \pm 0.5			Gilbert, 1968
Rhyolite, NW1/4, NE1/4, sec. 8, T1N, R29E, Cowtrack Mtn. Quad. sanidine	25.8 \pm 0.5			Gilbert, 1968
Tuff, Esmeralda Fm., 37°22'30"N, 117°46'50"W biotite	13.1 \pm 0.8			Robinson, 1968
Tuff, Esmeralda Fm., 37°22'40"N, 117°47'20"W biotite	4.3 \pm 0.4			Robinson, 1968
Tuff, Esmeralda Fm., 37°21'40"N, 117°49'40"W biotite	5.7 \pm 0.6			Robinson, 1968
Rhyolite welded tuff, 37°23'15"N, 117°51'W sanidine	8.2 \pm 0.2			Robinson, 1968
Quartz monzonite, Slate Range, Inyo County (35°53'30"N, 117°17'30"W) Zircon			120 \pm 20	Smith, 1969
Gneissic granodiorite, Slate Range, San Bernardino County (35°43'50"N, 117°13'40"W) Zircon			500 \pm 60	Smith, 1969
Metamorphosed quartz monzonite, Slate Range San Bernardino County (35°40'50"N, 117°11'35"W) Zircon			190 \pm 20	Smith, 1969

Ages Published in 1968

Rock type and location Material Dated	Age (m.y.) K-Ar	Rb-Sr	Pb- α	Reference
<u>California (Cont'd)</u>				
Granite, Fremont Peak 35°12'N, 117°28'W (?) zircon monazite			85±10 90±10	Marvin, 1968
Quartz monzonite, Hunter Mountain Batholith, 36°31'N, 117°44'W (?) zircon			190±20	Marvin, 1968
Isabella Granodiorite, Kern River uranium area, 35°34'N, 118°34'W (?) zircon			100±10	Marvin, 1968
Quartz diorite, Bodega Head pluton, 38°10'N, 123°04'W hornblende	92±3			Marvin, 1968
<u>Colorado</u>				
Granite, Wet Mountains, 38° 09'N, 105°16'W zircon			1380±155	Marvin, 1968
Alaskitic granite, Wet Mountains, 38°13'N, 105°17'W zircon			1360±150	Marvin, 1968
Gneiss, Wet Mountains, 38°13'N, 105°17'W zircon "			1615±180 1600±180	Marvin, 1968
Metasediment, Wet Mountains, 38°13'N, 105°22'W monazite			1295±145	Marvin, 1968
Gneiss, Wet Mountains, 38°11'N, 105°22'W zircon			1405±155	Marvin, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
COLORADO (Cont'd)				
Gneisses and schists, (high-grade metamorphic rocks) Front Range 7 whole rocks		1750 \pm 30 (isochron)		Peterman, 1968
Schists and phyllites, (low to middle grade metamorphic rocks) Front Range 9 whole rocks		1380 (isochron)		Peterman, 1968
Sillimanite gneiss, 40°37.1'N, 105°21.7'W, muscovite	1380 \pm 40	1420 \pm 50		Peterman, 1968
Amphibolite, 40°33.9'N, 105°18.3'W hornblende	1540 \pm 50			Peterman, 1968
Amphibolite, 40°25.1'N, 105°14.6'W hornblende	1510 \pm 10			Peterman, 1968
Diorites, granodiorites, and quartz monzonites (Boulder Creek Granite), Front Range 13 whole rocks		1700 \pm 40 (isochron)		Peterman, 1968
Quartz monzonite (Boulder Creek Granite), Front Range, 39°52.2'N, 105°24.1'W, whole rock, microcline, + plagioclase		1340 \pm 70 (isochron)		Peterman, 1968
Pegmatite related to Boulder Creek Granite, 40°34.3'N, 105°19.8'W muscovite, microcline, tourmaline		1490 \pm 40 (isochron)		Peterman, 1968
Pegmatite related to Boulder Creek Granite, 40°32.4'N, 105°10.4'W microcline		1450 \pm 150		Peterman, 1968
Tonalite, 40°27.6'N, 105°13.2'W biotite		1390 \pm 50		Peterman, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb- α	
<u>COLORADO</u> (Cont'd)				
Granites and quartz monzonites (Sherman Granite), Front Range 8 whole rocks and microcline		1410 \pm 30 (isochron)		Peterman, 1968
Granite, 40°45.0'N, 105°12.5'W, (Sherman Granite) biotite	1290 \pm 40			Peterman, 1968
hornblende	1380 \pm 40			
Basalt dike, 40°27.4'N, 105°10.1'W hornblende	1350 \pm 40			Peterman, 1968
Quartz monzonites, Silver Plume Granite, of the Log Cabin Batholith, Front Range 6 whole rocks		1420 \pm 30 (isochron)		Peterman, 1968
Quartz monzonites, Silver Plume Granite of the Log Cabin Batholith, 40°52.2'N, 105°23.1'W whole rock, microcline, muscovite		1420 \pm 40 (isochron)		Peterman, 1968
Granites and quartz monzonites, Silver Plume Granite of the Longs Peak-St. Vrain Batholith, Front Range 8 whole rocks		1450 \pm 30 (isochron)		Peterman, 1968
Quartz monzonites (Mount Olympus Granite), Front Range 3 whole rocks		1450 \pm 20 (isochron)		Peterman, 1968
Biotite-muscovite granites, Front Range 5 whole rocks		1390 \pm 30 (isochron)		Peterman, 1968
Biotite-muscovite granite, 40°24.9'N, 105°22.0'W whole rock, biotite, muscovite, microcline, plagioclase		1320 (isochron)		Peterman, 1968
Biotite-muscovite granite, 40°25.3'N, 105°21.3'W whole rock, apatite		1340 (isochron)		Peterman, 1968
Pegmatite, 40°25.0'N, 105°22.5'W albite, microcline, muscovite, biotite		1390 \pm 20 (isochron)		Peterman, 1968

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Colorado (Cont'd)</u>				
Quartz monzonite, Vernal Mesa Quartz Monzonite, along Unaweep Canyon two whole rocks		1480 \pm 40 isochron		Hedge (1968)
Metamorphic gneiss, schists, migmatite, and metaquartzite, Black Canyon of the Gunnison six whole rocks		1700 \pm 70 (isochron)		Hansen (1968a)
Pitts Meadow Granodiorite, lower reaches of the Black Canyon of the Gunnison seven whole rocks		1730 \pm 190 (isochron)		Hansen (1968a)
Vernal Mesa Quartz Monzonite, Black Canyon of the Gunnison, Montrose County five whole rocks		1480 \pm 40 (isochron)		Hansen (1968a)
Granites, quartz monzonite of Curecanti Quartz monzonite, Black Canyon of the Gunnison four whole rocks		1420 \pm 15 (isochron)		Hansen (1968a)
Diabase, 38°26.8'N, 107°26.7'W Black Canyon of the Gunnison 2 whole rocks, 1 mineral		510 \pm 60 (isochron)		Hansen (1968a)
Vernal Mesa Quartz Monzonite, 38°34.5'N, 107°43.7'W, Black Canyon of the Gunnison biotite		1190 \pm 60		Hansen (1968a)
Curecanti Quartz Monzonite, 38°27.1'N, 107°24.7'W, Black Canyon of the Gunnison muscovite		1190 \pm 60		Hansen (1968a)
Pegmatite, 38°26.7'N, 107°23.2'W, Black Canyon of the Gunnison microcline		1360 \pm 40		Hansen (1968a)
Diorite, Pitts Meadow Granodiorite, 38°37.5'N, 107°50.5'W, Black Canyon of the Gunnison hornblende		1390 \pm 50		Hansen (1968a)

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>Colorado (Cont'd)</u>				
Vernal Mesa Quartz Monzonite, 38°34.7'N, 107°43.7'W, Black Canyon of the Gunnison biotite	1220±40			Hansen (1968a)
Pegmatite, 38°26.7'N, 107°28.7'W, Black Canyon of the Gunnison biotite	1290±40			Hansen (1968a)
Rhyolite welded tuff, Rabbit Ears Volcanics, center sec. 23, T2N, R79W. sanidine	33± 3			Taylor, 1968
Rhyolite tuff breccia, NE1/4, sec. 33, T1S, R75W, approx. 39°55'30"N, 105°47'W sanidine	29 ± 3			Taylor, 1968
Rhyolite porphyry, Red. Mt. approx. 39°45'N, 105°50'W sanidine	27± 3			Taylor, 1968
Granodiorite, Lead Mt. 40°27'N, 105°54'W biotite	28			Corbett, 1968
Rhyolite ash flow (Upper Rhyolite), Iron Mt., 40°30'N, 105°51'30"W sanidine	27			Corbett, 1968
Quartz latite, Lulu Mt., 40°28'00"N, 105°50'30"W biotite	28			Corbett, 1968
Rhyodacite (Spruce Ridge dike), Ouray County, 38°10'45"N, 107°36'43"W biotite	66.9±4.0			Dickinson, 1968
Rhyodacite tuff breccia, Ouray County, 38°12'30"N, 107°35'47"W biotite plagioclase hornblende "	70.2±2.1 61.5±6.2 86.5±4.3 87.3±4.4			Dickinson, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)		Pb- α	References
	K-Ar	Rb-Sr		
	Colorado	(Cont'd)		
Bentonite (upper part of Mancos Shale-Cretaceous), Gunnison Co., approx. 38°17'20"N, 107°31'15"W				Dickinson, 1968
biotite	72.7±2.2			
sanidine	71.5±2.1			
Bentonite bed, Exiteloceras jenneyi zone, Mancos Shale, Montrose Co., 38°25'21"N, 107°39'11"W				Dickinson, 1968
biotite	72.7±2.2			
sanidine	75.2±2.3			
Bentonite bed (upper part of Mancos Shale-Cretaceous), Gunnison Co., approx. 38°18'30"N, 107°31'W				Dickinson, 1968
sanidine	75.0±2.2			
Boulder Creek Granodiorite, roadcut on US40 in Byers Canyon, Grand Co.				Izett, 1968
whole rock		1700 ± 50		
Quartz monzonite, roadcut on US40 in Byers, Canyon, Grand Co.				Izett, 1968
whole rock		1650 ± 40		
Rhyolite tuff, SE1/4, sec. 28, T1S, R75W, Grand County,				Izett, 1968
sanidine	29 ± 3			
Rhyolite welded tuff breccia, sec. 23, T2N, R79W, Grand County				Izett, 1968
sanidine	33 ± 3			
Rhyolite porphyries, Climax Stock (?)		30-32		Tweto, 1968
Volcanics(?), West Cliff-Rosita Hills (?)		38-40		Tweto, 1968
Altered Pando Porphyry, Hellena mine area, Leadville, sericite		60		Tweto, 1968a

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)		Reference
	K-Ar	Rb-Sr	Pb-α
<u>Colorado</u> (Cont'd)			
Syenite(?) from composite stock, Mount Tyndall quad, Wet Mtns., Custer Co.			Brock, 1968
Biotite	500±25		
Syenite dike, Mount Tyndall quad., Wet Mtns., Custer Co.			Brock, 1968
Whole Rock	485±24		
Syenite dike, Mount Tyndall quad., Wet Mtns., Custer Co.			Brock, 1968
Whole Rock (devitrified glass)	427±21		
Syenite dike, Mount Tyndall quad., Wet Mtns., Custer Co.			Brock, 1968
Whole Rock	585(should be 560±25 by our records)		
Quartz latite welded-tuff, near Salida, 38°39'N, 106°04'W			Marvin, 1968
biotite	34±3		
K-feldspar	39±3		
glass	34±3		
Welded-tuff, Sapinero Mesa, 38°27'N, 107°16'W (?)			Marvin, 1968
biotite	27±3		
Ashflow in West Elk Breccia, 38° 29'N, 107°33'W (?)			Marvin, 1968
biotite	23±2		
"	25±2		
Syenite, Wet Mountains, 38°15'N, 105°22'W (?)			Marvin, 1968
whole rock	485±24		
Mount Rosa Granite, south of Pikes Peak, 38°45'N, 104°57'W			Marvin, 1968
zircon		1110±125	
Pikes Peak Granite, Pikes Peak, 38° 51'N, 105°02'W (?)			Marvin, 1968
zircon		1050±115	
"		995±110	
"		1055±115	

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>CONNECTICUT</u>				
Schist, roadcut, 0.1 mi. E. of Greenwich on Interstate 95 biotite	295 ± 11			Clark, 1968
Schist, roadcut, 0.3 mi. E. of Greenwich on Interstate 95 muscovite	330 ± 13			Clark, 1968
Pegmatite in hornblende gneiss, 3 mi. E. of Greenwich at roadcut on Interstate 95 biotite	305 ± 12			Clark, 1968
Granite gneiss, roadcut on Interstate 95 at Stamford muscovite	310 ± 9			Clark, 1968
Schist, roadcut on Interstate 95, 3.4 mi. W. of Norwalk muscovite	290 ± 8			Clark, 1968
Granite gneiss, roadcut on Interstate 95, 0.4 mi. E. of Norwalk muscovite	285 ± 11			Clark, 1968
Schist, roadcut 0.6 mi. E. of Exit 19 on Interstate 95 biotite biotite	255 ± 10 285 ± 11			Clark, 1968
Gneiss, roadcut on Interstate 95, 2.3 mi. E. of Stratford biotite hornblende	265 ± 11 415 ± 16			Clark, 1968
Branford granitic gneiss, roadcut on Interstate 95, 1.9 mi. E. of Branford muscovite	240 ± 10			Clark, 1968
Pegmatite, roadcut on Interstate 95, 1.9 mi. E. of Branford muscovite	325 ± 13			Clark, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
<u>CONNECTICUT</u> (Cont'd)				
Orange Phyllite, roadcut on Merritt Parkway near exit to Route 110 muscovite	280 ± 11			Clark, 1968
Granite gneiss, Sherwood Ave. in Greenwich, 0.7 mi. E. of Route 120A biotite	305 ± 12			Clark, 1968
Schist, near Quaker Ridge on St. John St. biotite	335 ± 13			Clark, 1968
Schist, roadcut on Route 123 (New Canaan) biotite	255 ± 10			Clark, 1968
Granite gneiss, roadcut on Route 7, Wilton biotite	275 ± 10			Clark, 1968
Gneiss, roadcut on Route 7 south of Branchville biotite	320 ± 13			Clark, 1968
Manhattan Fm. (schist), roadcut of Route 7 about 6 mi. S of Branchville biotite	330 ± 13			Clark, 1968
Manhattan Fm. (gneiss), roadcut on Interstate 84, west of Danbury biotite	440 ± 17			Clark, 1968
Manhattan Fm. (gneiss), roadcut on Interstate 84, 2.7 mi. W. of state line biotite	345 ± 14			Clark, 1968
Gneiss, roadcut on Ridgebury Road, Ridgefield biotite	370 ± 15			Clark, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
CONNECTICUT (Cont'd)				✓
Fordham Gneiss, roadcut on Southern Blvd., S of Danbury biotite	400 ± 16			Clark, 1968
Gneiss, roadcut on Route 58, 1.7 mi. S. of Bethel biotite	335 ± 13			Clark, 1968
Gneiss, roadcut on Route 104, 0.8 mi. N. of Merritt Parkway biotite hornblende	330 ± 13 360 ± 14			Clark, 1968
Schist, roadcut on Route 25, 1.5 mi. N. of Trumbull biotite	265 ± 11			Clark, 1968
Augen gneiss, roadcut on Route 25, 5.3 mi. N. of Trumbull biotite	260 ± 10			Clark, 1968
Augen gneiss, roadcut on Route 25, 12.3 mi. N. of Trumbull biotite	325 ± 13			Clark, 1968
Schist, roadcut on Route 34, 5.0 mi. S. of Newtown biotite	315 ± 12			Clark, 1968
Schist, roadcut on Route 8, 5.1 mi. S. of Derby biotite	260 ± 10			Clark, 1968
Augen gneiss, roadcut on Route 8, 1.2 mi. N. of exit to Route 34 biotite	310 ± 13			Clark, 1968
Gneiss, roadcut on Route 8, 5.5 mi. N. of exit to Route 34 biotite	340 ± 14			Clark, 1968
Schist, roadcut on Route 8, 10.3 mi. N. of Exit to Route 34 biotite	325 ± 12			Clark, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>CONNECTICUT</u> (Cont'd)				
Amphibolite, roadcut on Interstate 84 near Southbury hornblende	370 ± 15			Clark, 1968
Gneiss, roadcut on Route 6, 1.8 mi. S. of Nonewaug River Bridge, Woodbury biotite	350 ± 14			Clark, 1968
Nonewaug Granite, roadcut on Route 61, 1.3 mi. N. of Woodbury biotite muscovite	330 ± 13 355 ± 14			Clark, 1968
Granulite, roadcut at Waterville biotite	355 ± 14			Clark, 1968
Reynolds Bridge Gneiss, roadcut on Route 8 at Reynolds Bridge biotite hornblende	385 ± 15 365 ± 14			Clark, 1968
Granulite, roadcut on west side of Pitch Reservoir, E. of East Morris biotite	335 ± 13			Clark, 1968
Amphibolite, roadcut on Route 8, 2 mi. S. of Torrington hornblende	400 ± 16			Clark, 1968
Schist, roadcut on Route 4, 1 mi. W. of Burlington biotite	360 ± 14			Clark, 1968
Collinsville Gneiss, roadcut on Route 4, 0.6 mi. E. of Farmington biotite	335 ± 14			Clark, 1968
Pegmatite in Collinsville Gneiss, roadcut on Route 4, 0.6 mi. E. of Farmington muscovite	370 ± 15			Clark, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>CONNECTICUT</u> (Cont'd)				
Amphibolite, outcrop on Route 72 at RR crossing just west of Bristol hornblende	395 ± 16			Clark, 1968
Schist, outcrop at Roxbury town line on Route 47 biotite	345 ± 13			Clark, 1968
Schist, roadcut on Route 47, 1.5 mi. N. of Washington Depot biotite	430 ± 17			Clark, 1968
Amphibolite, roadcut on Route 47, Roxbury, 2.1 mi. N. of Washington Depot hornblende	400 ± 16			Clark, 1968
Roxbury Granite Gneiss, outcrop on Route 67, 0.4 mi. E. of Bridgewater biotite	340 ± 13			Clark, 1968
Gneiss, outcrop on Route 133, west of Brookfield biotite	365 ± 14			Clark, 1968
Brookfield Diorite Gneiss, roadcut on entrance to Interstate 84 at Hawleyville biotite	395 ± 16			Clark, 1968
Waterbury Gneiss, roadcut on ramp to Interstate 84 from Route 63 biotite	345 ± 13	250 ± 7		Clark, 1968
11 whole rocks		465 ± 50 (isochron)		
muscovite		245 ± 10		
Porphyry, outcrop just W. of Route 8 and just S. of Merritt Parkway whole rock, feldspars, biotite		249 ± 5 (isochron)		Clark, 1968

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
	<u>Hawaii</u>			
Submarine pillow basalt, approx. 19°32.1'N, 154°47.4'W				Dalrymple, 1968a
whole rock	0.22±0.22			
whole rock	0.16±0.18			
Submarine pillow basalt, 19°36.5'N, 154°39.0'W				Dalrymple, 1968a
whole rock	6.3±1.9(too old)			
Submarine pillow basalt, 19°42.5'N, 154°26.1'W				Dalrymple, 1968a
whole rock	42.9±4.2(too old)			
whole rock	33.0±5.0(too old)			
whole rock	4.3±1.6(too old)			
Submarine pillow basalt, 19°45.2'N, 154°22.2'W				Dalrymple, 1968a
whole rock	14.1±1.7(too old)			
Submarine pillow basalt, 19°50.2'N, 154°18.9'W				Dalrymple, 1968a
whole rock	30.3±3.3(too old)			
Submarine pillow basalt, 19°51.5'N, 154°15.2'W				Dalrymple, 1968a
whole rock	19.5±2.5(too old)			
Mauna Kuwale rhyodacite, Waianae Volcano, Oahu Island				Funkhouser, 1968
minerals and whole rock	2.3±0.4 (avg. age)			
Basalt, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock	3.3±0.2(too old)			
whole rock	3.0±0.2(too old)			
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
plagioclase	4.3±1.1(too old)			
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock	2.3±0.5			
whole rock	3.1±0.5			
whole rock	2.3±0.6			

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	References
<u>Hawaii</u> (Cont'd)				
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock	2.9 \pm 0.1			
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
feldspar	2.2 \pm 0.2			
whole rock (less feldspar)	2.7 \pm 0.1			
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
feldspar	2.2 \pm 0.1			
whole rock	2.6 \pm 0.1			
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock	2.8 \pm 0.1			
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock	3.7 \pm 0.4			
whole rock	3.5 \pm 0.3			
Volcanic rock, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock	3.0 \pm 0.1			
whole rock	2.9 \pm 0.1			
Basalt, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock (10-16 mesh)	16.1 \pm 13.6(too old)			
whole rock (10-16 mesh)	6.2 \pm 6.2(too old)			
whole rock (100-180 mesh)	11.2 \pm 3.9(too old)			
Basalt, Waianae Volcano, Oahu Island				Funkhouser, 1968
whole rock	4.3 \pm 0.6			
whole rock	4.9 \pm 0.6			
whole rock (HF treated)	3.2 \pm 0.4			
Volcanic rock, Waianae Volcano(?), Ewa I drill hole at Barber's Point, Oahu Island				Funkhouser, 1968
whole rock	4.0 \pm 0.8			
whole rock	3.5 \pm 0.8			

Ages Published in 1968

Rock type and location Material Analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb- α	
<u>Hawaii</u> (Cont'd)				
Volcanic rock, Waianae Volcano, Oahu Island whole rock	5.4 \pm 0.3			Funkhouser, 1968
Volcanic rock, Nihoa Island whole rock	7.5 \pm 0.4			Funkhouser, 1968
Volcanic rock, Necker Island whole rock	11.3 \pm 0.6			Funkhouser, 1968
Basalt, Moiliili, Oahu Island whole rock	0.9 \pm 0.5			Funkhouser, 1968
Dike edge, Koolau Volcano, Oahu Island glass	2.2 \pm 0.3			Funkhouser, 1968
Trachyte, Puuwaawaa, Hawaii Island whole rock	0.4 \pm 0.3			Funkhouser, 1968
Hawaiite, Laupahoehoe, Mauna Kea, Hawaii Island whole rock	0.6 \pm 0.3			Funkhouser, 1968
phlogopite	2.8 \pm 0.1(too old)			
Garnet peridotite, Salt Lake Crater, Oahu whole rock	232 (too old)			Funkhouser, 1968a
diopside	2020 (too old)			
enstatite	3300 (too old)			
Garnet peridotite, Salt Lake Crater, Oahu biotite	> 0.4			Funkhouser, 1968a
Dunite, 1800-1801 Kaupulehu flow, Hualalai Volcano, Hawaii olivine	2040 (too old)			Funkhouser, 1968a
Pyroxenite, 1800-1801 Kaupulehu flow, Hualalai Volcano, Hawaii augite	960 (too old)			Funkhouser, 1968a
Pyroxenite, 1800-1801 Kaupulehu flow, Hualalai Volcano, Hawaii clinopyroxene	1500 (too old)			Funkhouser, 1968a

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
Hawaii (Cont'd)				
Olivine gabbro, 1800-1801 Kaupulehu flow, Hualalai Volcano, Hawaii				Funkhouser, 1968a
feldspar	160	(too old)		
pyroxene	2470	(" ")		
"	2960	(" ")		
<hr/>				
Marine mud core, 3 kilometers NE of Oahu Is.				Moberly, 1968
Illite	23 _{±4}			
Marine mud core, 1 kilometer NE of Oahu Is.				Moberly, 1968
Illite	11 _{±7}			
Marine mud core, 13 kilometers NE of Oahu Is.				Moberly, 1968
Illite	47 _{±3}			
Marine mud core, 30 kilometers N of Oahu Is.				Moberly, 1968
Illite	48 _{±3}			
Marine mud core, 235 kilometers NE of Oahu Is.				Moberly, 1968
Illite	69 _{±3}			
Illite	66 _{±3}			

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
	<u>Maine</u>			
Eastport volcanics, near Eastport nine whole-rock		412 _± 5 (isochron)		Fullagar, 1968
Hedgehog volcanics, near Presque Isle nine whole-rock		413 _± 10 (isochron)		Fullagar, 1968
Felsite (Kineo volcanics), Moosehead Lake, Misery Pond, Brassua Lake four whole-rock + one hornblende		365 _± 15 (isochron)		Fullagar, 1968
Traveler rhyolite, near top of North Traveler Mountain six whole-rock		357 _± 10 (isochron)		Fullagar, 1968
Quoddly Formation, near Eastport whole rocks (five)		420 _± 15 (isochron)		Fullagar, 1968a
Dennys Formation, near Eastport whole rocks (five)		415 _± 15 (isochron)		Fullagar, 1968a
Pembroke Formation, near Eastport whole rocks (eight)		410 _± 15 (isochron)		Fullagar, 1968a
Sedgwick Granite, Castine-Blue Hill Area whole rock (?)		395		Brookins, 1968b
East Blue Hill Granite, Castine- Blue Hill Area whole rock (?)		400		Brookins, 1968b
South Penobscot granite, Castine-Blue Hill Area whole rock (?)		365		Brookins, 1968b
Oak Point granite, Castine-Blue Hill Area whole rock (?)		350		Brookins, 1968b
Wallamatogus granite, Castine- Blue Hill Area whole rock (?)		420		Brookins, 1968b

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
<u>Maryland</u>				
Augen gneiss (Baltimore Gneiss), collected N and W of Baltimore 5 whole rocks		1050±100 (isochron)		Wetherill, 1968
Augen gneiss (Baltimore Gneiss), approx. 39°27'N, 76°29'W whole rock + mineral separates		294 (isochron)		Wetherill, 1968
Augen gneiss (Baltimore Gneiss), approx. 39°25'N, 76°32'W whole rock + mineral separates		287 (isochron)		Wetherill, 1968
<u>Massachusetts</u>				
Holyoke lava-flow unit, near type area whole rock	193±6			DeBoer, 1968
Deerfield lava-flow unit, near type area whole rock	191±6			DeBoer, 1968
Schist, roadcut on Barber Hill, Mt. Grace quad. whole rocks	460±14	(part of) (isochron)		Brookins, 1968
Gneiss, quarry, S. side of Fisher Hill in Orange quad. whole rocks	460±15	(part of) (isochron)		Brookins, 1968

Cape Ann Granite, Mount Ann, Essex Co. whole rocks (fresh) whole rocks (weathered)	415 ± 10 (isochron) 372 ± 10 (average)			Bottino, 1968

Wamsutta Rhyolite, South Attleboro whole rocks	225 ± 25 (isochron)			Mutch, 1968
Quincy Granite, Quincy whole rocks	325 ± 15 (isochron)			Mutch, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
<u>MASSACHUSETTS</u> (Cont'd)				
Sandstone (?), Rhode Island Fm. (Pennsylvanian), Narragansett Basin				Mutch, 1968
whole rock	295			
muscovite (35-45 mesh)	340 (too old)			
muscovite (45-60 mesh)	325, 320			
muscovite (60 mesh)	380 (too old)			

Rhyolite, Basalt, andesite, from near Rowley				Fullagar, 1968
five whole-rock	345±10 (isochron)			
Blue Hills Quartz Porphyry, Milton and Quincy				Mutch, 1968
whole rocks	245 ± 10 (isochron)			
Blue Hills Aporhyolite, Milton and Quincy				Mutch, 1968
whole rocks	248 ± 10 (isochron)			
Sandstone (?), Rhode Island Fm. (Pennsylvanian), Narragansett Basin				Mutch, 1968
whole rock	420 (too old)			
muscovite (60 mesh)	355 (too old)			
muscovite (80-120 mesh)	295			

Michigan

Syenodiorite, Mount Bohemia, SEC of Delaware quad. Keweenaw Co.				Chaudhuri, 1968
whole rocks	1130±35 (isochron)			

Ages Published in 1968

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Minnesota</u>				
Hornblende schist, Knife Lake Group, road cut, N 1/2, sec. 6, T60N, R13W hornblende	2650			Hanson (1968)
Granite, Giants Range Granite, NW 1/4, sec. 11, T62N, R12W, St. Louis County hornblende	2660			Hanson (1968)
Granite, Giants Range Granite, road cut on line between sec. 25 and 36, T62N, R12W, St. Louis Co. biotite hornblende	1540 2500			Hanson (1968)
Gneiss, Northern Light Gneiss, 48°15.6'N, 90°42.8'W, <u>Ontario</u> hornblende	2620			Hanson (1968)
Granite, Saganaga Granite, 48°13.4'N, 90°41.8'W, <u>Ontario</u> hornblende	2570			Hanson (1968)
Granite, Saganaga Granite, 48°10.0'N, 90°52.6'W, Cook Co. hornblende	2770			Hanson (1968)
Gneiss, near Granite Falls, SE 1/4, NW 1/4, sec. 4, T115N, R39W, Yellow Medicine County hornblende	2740			Hanson (1968)
Gneiss, Morton Quartz Monzonite Gneiss, quarry, NWC, SW 1/4, sec. 32, T113N, R34W, Renville County hornblende "	2590 2630			Hanson (1968)
Pegmatitic granite, Sacred Heart Granite, SWC, sec. 8, T114N, R37W, Redwood County hornblende	2760			Hanson (1968)
Granite, Rockville Porphyritic Granite, quarry, SE 1/4, NW 1/4, sec. 16, T123N, R29W, Stearns Co. hornblende	1800			Hanson (1968)

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.) K-Ar Rb-Sr Pb- α	Reference
<u>Minnesota (Cont'd)</u>		
Basalt, quarry in St. Cloud, NE 1/4, SW 1/4, sec. 20, T124N, R28W, Stearns County whole rock	1280	Hanson (1968)
Basalt, quarry, center of west line, sec. 20, T124N, R28W, Stearns County whole rock	1460	Hanson (1968)
Basalt, quarry, 4-1/2 mi. E. of Rockville, Stearns County whole rock	1570	Hanson (1968)
Mafic dike, Fransen Island 48°37.5'N, 93°15'W, Koochiching County whole rock	2130	Hanson (1968)
whole rock	2040	
Gabbro(?), Cedar Mtn. Grano- phyre-Gabbro Complex, SE 1/4, NE 1/4, sec. 15, T112N, R34W, Redwood County hornblende	1750	Hanson (1968)
<u>MONTANA</u>		
Quartz monzonite, Butte biotite	78.4±2.0	Meyer, 1968
Altered wall rock, Butte biotite (secondary)	62.8	Meyer, 1968
sericite (secondary)	57.5±1.8	
Andesite(?), Elkhorn Mtns. Volcanics, near top of Cliff Mtn., 11 miles E of Deer Lodge hornblende	77.6±2.4	Robinson, 1968a
Breccia, Elkhorn Mtns. Volcanics, Jefferson Canyon hornblende	78.8±2.4	Robinson, 1968a
hornblende	77.6±2.4	
Granite(?), Beaverhead pluton biotite (?)	441±15	Scholten, 1968

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	References
Montana (Cont'd)				
Argillite(?), McNamara Fm., Belt Series, head of Sun River				Obradovich, 1968
glaucanite	1130 \pm 55	1125		
glaucanite	1070 \pm 55	1125		
glaucanite	1080 \pm 55			
glaucanite	1060 \pm 55	1080		
Argillite(?), Shepard Fm., Belt Series, head of Sun River				Obradovich, 1968
glaucanite	1120 \pm 55	1075		
glaucanite		1110		
glaucanite	1050 \pm 50	1100		
glaucanite	1100 \pm 55	1100		
glaucanite		1050		
glaucanite		1090		
Argillite(?), Empire Fm. (upper part), Belt Series, head of Sun River				Obradovich, 1968
glaucanite	1040 \pm 50	1190		
Sill in Garnet Range Fm., Belt Series, near Alberton				Obradovich, 1968
biotite	760 \pm 50			
Argillite(?), Prichard Fm., Belt Series, near Alberton				Obradovich, 1968
biotite	1330 \pm 45			
Argillaceous rocks, Belt Series, head of Sun River				Obradovich, 1968
glaucanite		1095 \pm 22 (isochron)		
whole rock		1100 \pm 53 (isochron)		
Argillaceous rocks, Belt Series, from Big Belt and Little Belt Mtns.				Obradovich, 1968
whole rock		1325 \pm 15 (isochron)		
Argillaceous rocks, Belt Series, near Alberton				Obradovich, 1968
whole rock		~930 (isochron)		
Elkhorn Mountains Volcanics, approx. 46°22'N, 112°30'W				Tilling, 1968
hornblende	77.6 \pm 2.4			

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
<u>Montana</u> (Cont'd)				
Elkhorn Mountains Volcanics, approx. 45°49'N, 111°21'W				Tilling, 1968
hornblende	78.8±2.4			
"	77.6±2.4			
Mafic intrusive, north end of Boulder Batholith				Tilling, 1968
biotite	75.8±3.8			
"	77.4±3.1			
Mafic intrusive, approx. 46°29'N, 111°13'W				Tilling, 1968
biotite	73.5±2.9			
Mafic intrusive, approx. 45°56'N, 112°16'W				Tilling, 1968
biotite	78.2±3.1			
Granodiorite, Rader Creek Pluton, south end of Boulder Batholith				Tilling, 1968
biotite	72.8±3.6			
Granodiorite, Rader Creek Pluton, south end of Boulder Batholith				Tilling, 1968
biotite	73.9±3.7			
hornblende	74.7±3.0			
Granodiorite, Clancy Granodiorite, north end of Boulder Batholith				Tilling, 1968
biotite	71.7±2.3			
biotite	71.9±2.2			
hornblende	73.3±2.5			
hornblende	71.4±2.5			
Quartz monzonite, Butte Quartz Monzonite, south end of Boulder Batholith				Tilling, 1968
biotite	72.9±3.6			
hornblende	71.2±3.6			
Quartz monzonite, Butte Quartz Monzonite, south end of Boulder Batholith				Tilling, 1968
biotite	72.7±3.0			
hornblende	76.5±2.4			
hornblende	75.0±3.4			

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	References
<u>Montana</u> (Cont'd)				
Quartz monzonite, Butte Quartz Monzonite, central part of Boulder Batholith				Tilling, 1968
biotite	75.8 \pm 3.0			
biotite	73.1 \pm 2.9			
hornblende	81.5 \pm 3.3			
Quartz monzonite, Butte Quartz Monzonite, south part of Boulder Batholith				Tilling, 1968
biotite	75.1 \pm 3.0			
hornblende	75.0 \pm 3.0			
Quartz monzonite, Butte Quartz Monzonite, south part of Boulder Batholith				Tilling, 1968
biotite (> 20 mesh)	70.4 \pm 2.8			
biotite (-60 +80 mesh)	70.3 \pm 2.8			
hornblende	80.4 \pm 3.2			
hornblende	78.2 \pm 3.1			
Leucocratic quartz monzonite, Climax Gulch Pluton, south part of Boulder Batholith				Tilling, 1968
biotite	68.0 \pm 2.7			
hornblende	69.0 \pm 2.8			
Granite, Crevice Mtn., Jardine-Crevice Mtn. area				Brookins, 1968a
whole rock		2731		
whole rock		2661		
muscovite		2110		
K-feldspar		1850		
whole-rock and K-feldspar		1850 (isochron)		
Granite, Crevice Mtn., Jardine-Crevice Mtn. area				Brookins, 1968a
K-feldspar	1180 \pm 35			
biotite	1655 \pm 40			
muscovite	1820 \pm 50			
Granite, Crevice Mtn., Jardine-Crevice Mtn. area				Brookins, 1968a
whole rock		2633		
whole rock		2110		

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Nevada</u>				
Igneous sill in Thumb Fm., Frenchman Mtn., Clark Cty., 36°07'53"N, 114°57'00"W whole rock	10.9±1.1			Damon, 1968
Vitrophyre(?), Rhyolite of Saucer Mesa, 37°24'W, 116°21'W glass	13.1±0.5			Noble, 1968
Vitrophyre(?), Grouse Canyon Member, Belted Range Tuff, 37°20'30"N, 116°1'00"W glass	13.8±0.5			Noble, 1968
Vitrophyre(?), Rhyolite of Kawich Valley, 37°21'10"N, 116°01'00"W sanidine	14.8±0.6			Noble, 1968
Quartz monzonite(?), 38°58'20"N, 114°21'30"W, Snake Range zircon			220±25	Lee, 1968
Zenolith, approx. 38°56'N, 114°15'W, Snake Range zircon			20±10	Lee, 1968
Zenolith, approx. 38°58'N, 114°10'W, Snake Range zircon			40±10	Lee, 1968
Zenolith, 38°55'N, 114°15'W, Snake Range zircon			170±30	Lee, 1968
Granodiorite(?), 38°55'30"N, 114°13'40"W, Snake Range zircon			170±20	Lee, 1968
Zenolith, 38°57'30"N, 114°09'W, Snake Range zircon			40±10	Lee, 1968
Quartz monzonite(?), 38°56'N, 114°15'W, Snake Range zircon			180±20	Lee, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
	<u>Nevada</u>	(Cont'd)		
Railroad Valley Rhyolite, Grant Range--White Pine Range (?)	33.3			Moores, 1968
Calloway Well Formation (rhyolite), Grant Range--White Pine Range (?)	33.3			Moores, 1968
Stone Cabin Fm. (rhyolite), Grant Range--White Pine Range (?)	32.8			Moores, 1968
Windous Butte Fm. (rhyolite), Grant Range--White Pine Range (?)	29.9			Moores, 1968
Needles Range Fm. (dacite to rhyolite), Grant Range--White Pine Range (?)	29.2			Moores, 1968
Granite, Troy Peak stock, southern Grant Range				Moores, 1968
biotite	22.6			
muscovite	24.8			
Quartz monzonite, Silver Spring stock, White Pine Range				Moores, 1968
biotite	32.9			
hornblende	32.9			
Quartz monzonite, Railroad stock, White Pine Range				Moores, 1968
biotite	32.6			
Tuff in Idavada Volcanics, between Skull Creek and Reed Creek, Elko Co.				Coats, 1968
sanidine	12.2±0.8			
Circle Creek rhyolite, Elko Co.				Coats, 1968
sanidine	11.6±0.5			
Cougar Point welded tuff, Yellow Rock near Skull Creek, Owyhee quad.				Coats, 1968a
sanidine	12.2±0.8			

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.) <u>K-Ar</u> <u>Rb-Sr</u>	<u>Pb-α</u>	<u>Reference</u>
<u>Nevada</u> (Cont'd)			
Vitrophyre, Rawhide Fm., Hot Creek Range, Nye Co. biotite	28.5		Cook, 1968
Tuff, Box Canyon Fm., Hot Creek Range, Nye Co. biotite	27		Cook, 1968
Basalt, west of Anchorite Pass, Huntton Valley quad, Mineral Co. whole-rock	4.5±0.2		Gilbert, 1968
Basalt, hill east of BM7257, Hwy 31, Huntton Valley quad, Mineral Co. whole-rock	3.7±0.1		Gilbert, 1968
Basalt, west of Anchorite Pass, Huntton Valley quad, Mineral Co. whole-rock	3.9±0.1		Gilbert, 1968
Latite perlite, west of Anchorite Pass, Huntton Valley quad, Mineral Co. sanidine	3.5±0.1		Gilbert, 1968
Rhyolitic pumice, sec. 28, T4N, R29E, Huntton Valley quad. sanidine	3.4±0.1		Gilbert, 1968
Basalt, sec. 31, T3N, R31E, Huntton Valley quad. whole rock	2.7±0.1		Gilbert, 1968
Basalt, N1/2, SW1/4, sec. 9, T2N, R31E, Huntton Valley quad. whole rock	3.1±0.1		Gilbert, 1968
Rhyolite perlite, N1/2, sec. 36, T5N, R28E, Aurora quad. sanidine	3.6±0.1		Gilbert, 1968
Basalt, N1/2, sec. 2, T4N, R28E, Trench Canyon quad. whole rock	1.6±0.1		Gilbert, 1968
Latite, NW1/4, sec. 4(?), T1N, R31E, Benton quad. biotite	10.3±0.7		Gilbert, 1968

Ages Published in 1968

Rock type & Location	Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
Nevada (Cont'd)					
Latite, SW of Huntoon Spring, Huntoon Valley quad, Mineral Co.	biotite	11.6±0.3			Gilbert, 1968
Latite, Huntoon Creek, 3/4 mi. W. of Huntoon Spring, Huntoon Valley quad., Mineral Co.	sanidine plagioclase	11.3±0.2 11.6±0.2			Gilbert, 1968
Latite, NW of Huntoon Spring, Huntoon Valley quad., Mineral Co.	sanidine	11.2±0.2			Gilbert, 1968
Rhyolite tuff, approx. NWC of sec. 26, T3N, R33E	sanidine plagioclase	22.0±0.4 22.0±0.9			Gilbert, 1968
Vitrophyre, approx. NWC of sec. 26, T3N, R33E	sanidine plagioclase biotite	22.1±0.3 22.8±0.4 24.0±0.7			Gilbert, 1968
Rhyolite, near Anchorite Pass, Huntoon Valley quad., Mineral Co.	sanidine	28.5±0.6			Gilbert, 1968
Quartz diorite, Gold Strike claims, sec. 30, 3 mi. N. of Carlin mine, Eureka Co.	biotite	121±5			Hausen, 1968
Tuff (Labyrinth Canyon Member, Thirsty Canyon Tuff), 37°18'N, 116°35'W	sanidine	6.2±0.17			Kistler, 1968
Tuff (Spearhead Member, Thirsty Canyon Tuff), 37°08'N, 116°26'W	sanidine	7.5±0.20			Kistler, 1968
Tuff, 37°04'N, 116°21'W	biotite sanidine	9.4±1.98 9.6±0.26			Kistler, 1968
Tuff (Ammonia Tanks Member, Timber Mtn. Tuff), 36°58'N, 116°14'W	biotite	10.9±0.35			Kistler, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
Nevada (Cont'd)				
Tuff (Ammonia Tanks Member, Timber Mtn. Tuff), 36°58'N, 116°14'W				Kistler, 1968
sanidine	10.8±0.29			
sanidine	10.8±0.51			
Tuff (Ammonia Tanks Member, Timber Mtn. Tuff), 37°02'N, 116°36'W				Kistler, 1968
biotite	11.2±0.49			
Tuff (Ammonia Tanks Member, Timber Mtn. Tuff), 37°12'N, 116°28'W				Kistler, 1968
biotite	11.4±0.50			
Tuff (Ammonia Tanks Member, Timber Mtn. Tuff), 36°54'N, 115°58'W				Kistler, 1968
biotite	12.1±0.45			
Tuff (Tuff of Transvaal), 36°59'N, 116°36'W				Kistler, 1968
biotite	11.0±0.40			
sanidine	11.2±0.30			
Tuff (Tuff of Cat Canyon), 37°03'N, 116°32'W				Kistler, 1968
sanidine	10.5±0.28			
Tuff (Tuff of Cat Canyon), 37°04'N, 116°21'W				Kistler, 1968
biotite	10.8±0.45			
biotite	10.9±0.45			
sanidine	10.6±0.34			
sanidine	10.9±0.35			
Tuff (Tuff of Cat Canyon), 37°04'N, 116°30'W				Kistler, 1968
sanidine	11.1±0.30			
Tuff (Tuff of Cat Canyon) 37°03'N, 116°26'W				Kistler, 1968
biotite	11.7±0.43			
sanidine	11.1±0.30			
sanidine	11.4±0.31			
Tuff (Rainier Mesa Member), 36°58'W, 116°14'W				Kistler, 1968
sanidine	10.4±0.27			

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
	<u>Nevada (Cont'd)</u>			
Rhyolite lava, 37°57'N, 116°41'W biotite	11.3±0.36			Kistler, 1968
Tuff (Tiva Canyon Member, Paintbrush Tuff), 36°59'N, 116°14'W biotite	12.4±0.46			Kistler, 1968
Tuff (Tiva Canyon Member, Paintbrush Tuff), 36°54'N, 116°53'W biotite	12.4±0.40			Kistler, 1968
Tuff (Topopah Spring Member, Paintbrush Tuff), 36°54'N, 116°17'W biotite	13.2±0.42			Kistler, 1968
Rhyodacite lava (Wahmonie Fm.), 36°52'N, 116°07'W biotite	12.5±0.40			Kistler, 1968
Ash (Wahmonie Fm.), 36°52'N, 116°07'W biotite	12.9±0.41			Kistler, 1968
Rhyolite (Rhyolite of Calico Hills), 36°57'N, 116°15'W biotite	13.4±0.43			Kistler, 1968
Tuff (Tuff of Redrock Valley), 37°01'N, 116°11'W sanidine	13.6±0.37			Kistler, 1968
Tuff, 37°12'N, 116°08'W biotite	16.1±0.43			Kistler, 1968
Tuff, 36°56'N, 116°16'W biotite	15.0±0.55			Kistler, 1968
Tuff (Tuff of Trailer Pass), 37°37'N, 116°20'W biotite	17.8±0.48			Kistler, 1968
Tuff (Tuff of White Blotch Spring), 37°56'N, 116°25'W biotite sanidine	21.1±0.57 21.9±0.39			Kistler, 1968
Tuff (Tuff of Belted Peak), 37°38'N, 115°59'W biotite	25.3±0.68			Kistler, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		<u>Fb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>Nevada</u> (Cont'd)				
Tuff (Tuff of Monotony), 37°34'N, 116°06'W biotite	26.1±0.71			Kistler, 1968
Dacite vitrophyre, 37°40'N, 117°11'W biotite	21.1±0.57			Kistler, 1968
Vitrophyre (Kane Wash Fm.), Lincoln County, 37°12'N, 114°57.5'W sanidine	14.0±0.6			Noble, 1968a
Trachyandesite welded tuff, Silver Peak Range, 37°39'05"N, 117°45'55"W biotite	6.1±0.3			Robinson, 1968
Rhyolite tuff, Silver Peak Range, 37°47'35"N, 117°50'20"W biotite	6.0±0.5			Robinson, 1968
Basalt, Silver Peak Range, 37°43'25"N, 118°01'50"W whole rock	4.8±0.6			Robinson, 1968
Trachyandesite, Silver Peak Range, 37°42'05"N, 117°36'25"W biotite	5.9±0.2			Robinson, 1968
Tuff(?), Esmeralda Fm., 37°40'25"N, 118°05'40"W biotite	11.1±0.2			Robinson, 1968
Tuff(?), Esmeralda Fm., 37°40'25"N, 118°05'15"W biotite	11.4±0.2			Robinson, 1968
Tuff(?), Esmeralda Fm., 37°59'15"N, 117°51'40"W biotite	12.7±0.2			Robinson, 1968
Rhyolite welded tuff, 37°58'30"N, 117°54'05"W biotite	21.5±1.0			Robinson, 1968
Tuff, Esmeralda Fm., 37°51'30"N, 117°36'50"W biotite	6.9±0.3			Robinson, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		<u>Pb-α</u>	<u>Reference</u>
	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>Nevada</u> (Cont'd)				
Rhyolite welded tuff, 38°01'05"N, 118°06'55"W biotite		22.8±1.0		Robinson, 1968
Welded tuff, Tuff of Bottle Summit, 39°16'11"N, 116°45'55"W, Lander Co. (?)	31			McKee, 1968b
Andesite (?), 39°27'30"N, 116°48' W, Lander Co. (?)	35			McKee, 1968b
Granitic intrusive, near Silver Peak, 37°59'N, 117°30'W biotite		19.5±0.6		Marvin, 1968
Granitic complex, near Silver Peak, 37°45'N, 117°41'W muscovite biotite		50.6±1.5 42.1±1.3		Marvin, 1968
<u>NEW JERSEY</u>				
Arkose, Stockton Fm. (Upper Triassic), Route 29, 1 mi. NW of Stockton whole rock		215 ± 11		Abdel-Monem, 1968
Arkose, Stockton Fm. (Upper Triassic), Route 513, 1 mi. NE of Pittstown whole rock		350 ± 18 (too old)		Abdel-Monem, 1968
Shale, Brunswick Fm. (Upper Triassic), intersection of Routes 22 and 523 whole rock		305 ± 15 (too old)		Abdel-Monem, 1968
Sandstone, Border Conglomerate (Upper Triassic), Route 517, 0.5 mi. N. of Oldwick whole rock		290 ± 15 (too old)		Abdel-Monem, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
NEW JERSEY (Cont'd)				
Arkosic sandstone, Brunswick Fm. (Upper Triassic), Route 46, Ridgefield whole rock		350 ± 17 (too old)		Abdel-Monem, 1968
Sandstone, Brunswick Fm. (Upper Triassic), Wilson Jr. High School Stadium, Clifton whole rock		380 ± 18 (too old)		Abdel-Monem, 1968
Arkosic sandstone, Brunswick Fm. (Upper Triassic), Route 46, 0.4 mi. E. of Great Notch whole rock		315 ± 16 (too old)		Abdel-Monem, 1968
Shale, Brunswick Fm. (Upper Triassic), Route 46, 0.4 mi. E. of Pine Brook whole rock		355 ± 17 (too old)		Abdel-Monem, 1968
Siltstone, Brunswick Fm. (Upper Triassic), Route 202, 0.8 mi. SW of Bernardsville whole rock		250 ± 12 (too old)		Abdel-Monem, 1968
Siltstone, Brunswick Fm. (Upper Triassic), intersection of Routes 202, 206, and 512 whole rock		325 ± 16 (too old)		Abdel-Monem, 1968
Shale, Brunswick Fm. (Upper Triassic), intersection of Routes 206 and 514 whole rock		315 ± 16 (too old)		Abdel-Monem, 1968
Shaley sandstone, Brunswick Fm. (Upper Triassic), Route 206, 1 mi. N. of Princeton whole rock		250 ± 12 (too old)		Abdel-Monem, 1968
Shaley sandstone, Stockton Fm. (Upper Triassic), intersection of Routes 29 and 546 whole rock		255 ± 12 (too old)		Abdel-Monem, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
NEW JERSEY (Cont'd)				
Sandstone, Stockton Fm. (Upper Triassic), Route 29, 1 mi. N. of Titusville whole rock	285 ± 13 (too old)			Abdel-Monem, 1968
Siltstone, Brunswick Fm. (Upper Triassic), Route 202, 2 mi. SW of Somerville whole rock	355 ± 17 (too old)			Abdel-Monem, 1968
Claystone, Brunswick Fm. (Upper Triassic), Route 202, 3.5 mi. SW of Centerville whole rock	250 ± 12 (too old)			Abdel-Monem, 1968
Sandy Shale, Brunswick Fm. (Upper Triassic) Routes 202 and 69, 0.4 mi. N. of Ringoes whole rock	265 ± 13 (too old)			Abdel-Monem, 1968
Sandy siltstone, Brunswick Fm. (Upper Triassic), Route 29, 1.5 mi. N. of Lambertville whole rock	245 ± 12 (too old)			Abdel-Monem, 1968
Arkose, Stockton Fm. (Upper Triassic), Stockton whole rock	210 ± 11			Abdel-Monem, 1968
Argillite, Lockatong Fm. (Upper Triassic), Route 29 opposite Treasure Island whole rock	210 ± 11			Abdel-Monem, 1968
Claystone, Brunswick Fm. (Upper Triassic), Route 29, 0.5 mi. S. of Frenchtown whole rock	295 ± 15 (too old)			Abdel-Monem, 1968
Arkosic sandstone, Brunswick Fm. (Upper Triassic), Route 579, 1 mi. N. at Jutland whole rock	400 ± 20 (too old)			Abdel-Monem, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)		References	
	K-Ar	Rb-Sr	Pb-α	
<u>New Mexico</u>				
Aplite, (Mine Aplite), Questa Mine, Taos Range, Taos County biotite	22.3±0.7			Damon (1968)
Vein, Mine Aplite, Questa Mine, Taos Range, Taos County biotite	23.5±0.8			Damon (1968)
Log Cabin Stock, Questa Mine, Taos Range, Taos County biotite	22.5±0.9			Damon (1968)

Riebeckite "granite", Pajarito Mtn., approx. 33°14'N, 105°26'W riebeckite K-feldspar	1170±24	1155±25		Kelley, 1968
Syenite pegmatite, Pajarito Mtn., approx. 33°14'N, 105°26'W hornblende	1190±25			Kelley, 1968
Welded tuff (Los Pinos Fm.), west of Petaca (?)	25.9±1.8			Bingler, 1968
Rhyolite (Late rhyolite, San Antonio, 35.94°N, 106.60°W, Valles Caldera sanidine	0.434±0.015			Doell, 1968
Rhyolite (Late rhyolite, South Mtn.), approx. 35.82°N, 106.54°W, Valles Caldera sanidine	0.494±0.015			Doell, 1968
Rhyolite (Late rhyolite, La Jara), 35.36°N, 106.50°W, Valles Caldera sanidine	0.502±0.015			Doell, 1968
Rhyolite (Late rhyolite, San Antonio), approx. 35.90°N, 106.64°W, Valles Caldera sanidine	0.535±0.015			Doell, 1968
Rhyolite (Late rhyolite, San Luis), approx. 35.94°N, 106.55°W, Valles Caldera sanidine sanidine	0.823±0.074 0.692±0.015			Doell, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb-α	Reference
<u>New Mexico (Con'd)</u>			
Rhyolite (Late rhyolite, Santa Rosa), 35.96°N, 106.50°W, Valles Caldera sanidine	0.707±0.019		Doell, 1968
Rhyolite (Late rhyolite, Seco), 35.95°N, 106.56°W, Valles Caldera Sanidine	0.726±0.015		Doell, 1968
Rhyolite (Late rhyolite, Santa Rosa), 35.95°N, 106.50°W, Valles Caldera sanidine	0.884±0.028		Doell, 1968
Rhyolite (Late rhyolite, Abrigo), 35.96°N, 106.49°W, Valles Caldera sanidine	0.886±0.019		Doell, 1968
Altered rhyolite (Late rhyolite, Warm Springs) 35.97°N, 106.56°W, Valles Caldera sanidine	1.22±0.04		Doell, 1968
Rhyolite (Late rhyolite, Del Medio), 35.91°N, 106.48°W, Valles Caldera obsidian	1.04±0.05		Doell, 1968
Rhyolite (Late rhyolite, Del Medio), 35.92°N, 106.46°W, Valles Caldera obsidian	1.15±0.03		Doell, 1968
Altered rhyolite (Middle rhyolite), approx. 35.92°N, 106.61°W, Valles Caldera biotite (sample 4D207) sanidine (sample 4D013) biotite (sample 4D013) plagioclase (sample 3X114)	1.71±0.07 1.28±0.06 1.60±0.11 3.25±0.32		Doell, 1968
Altered rhyolite (Early rhyolite), approx. 35.88°N, 106.60°W, Valles Caldera sanidine	1.25±0.11		Doell, 1968
Ash (anorthoclase unit, Upper member, Bandelier Tuff), 35.83°N, 106.34°W, Jemez Mtns. anorthoclase (sample 3X241) altered anorthoclase (sample 5A057)	1.19±0.04 1.24±0.05		Doell, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.) K-Ar Rb-Sr	Pb- α	Reference
New Mexico (Cont'd)			
Ash (Upper member, Bandelier Tuff), approx. 35.77°N, 106.74°W, Jemez Mtns. sanidine (sample 3X151) sanidine (sample 3X170)	1.02±0.04 1.06±0.03		Doell, 1968
Ash (basal pumice fall, Upper member, Bandelier Tuff), NW1/4, sec. 20, T19N, R7E White Rock quad, Jemez Mtns. sanidine	1.09±0.03		Doell, 1968
Ash (Lower member, Bandelier Tuff), 35.84°N, 106.65°W, Jemez Mtns sanidine	1.48±0.09		Doell, 1968
Ash (Lower member, Bandelier Tuff), 35.93°N, 106.71°W, Jemez Mtns. sanidine	1.44±0.04		Doell, 1968
Ash (basal pumice fall, Lower member, Bandelier Tuff), NE1/4, sec. 21, T19N, R7E, White Rock Quad., Jemez Mtns. sanidine	1.37±0.04		Doell, 1968
Basalt (Intra-Gila conglomerate), sec. 21, T17S, R11W whole rock	6.29±0.41		Elston, 1968
Andesite(?), sec. 17, T19S, R19W whole rock	20.6±1.5		Elston, 1968
Bloodgood Canyon Rhyolite, sec. 29, T6S, R18W sanidine	23.2±0.7		Elston, 1968
Cooney Quartz Latite, sec. 4, T11S, R19W biotite	23.7±0.8		Elston, 1968
Swartz [†] Rhyolite, sec. 36, T18S, R10W sanidine	26.6±0.8		Elston, 1968
Apache Spring Quartz Latite, sec. 5, T11S, R18W biotite	27.3±0.8		Elston, 1968

Ages Published in 1968

Rock type & Location	Age (m.y.)		Pb- α	Reference
<u>Material Dated</u>	<u>K-Ar</u>	<u>Rb-Sr</u>		
<u>New Mexico (Cont'd)</u>				
Faywood rhyolite, sec. 15, T20S, R11W				Elston, 1968
biotite	32.0 \pm 1.0			
plagioclase	37.3 \pm 8.4			
Viriden dacite, sec. 33, T17S, R21W				Elston, 1968
biotite	34.7 \pm 1.0			

Bloodgood Canyon Rhyolite, sec. 32, T16S, R17W				Elston, 1968
sanidine	26.5 \pm 1.2			
sanidine	26.3 \pm 0.8			
Conglomerate of Vadito Fm., 36 11'N, 105 48'W (?)				Marvin, 1968
zircon			1550 \pm 175	
Caballo Blanco Rhyolite, sec. 25, T18S, R10W				Elston, 1968
sanidine	29.8 \pm 0.8			
Tadpole Ridge Quartz latite, sec. 24, T16S, R14W				Elston, 1968
biotite	31.2 \pm 0.9			

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>NEW YORK</u>				
Fordham Gneiss, 0.5 mi. E. of Tappan Zee Bridge tollgate, New York Thruway				Abdel-Monem, 1968
whole rock	430 ± 21			
biotite	445 ± 13			
Fordham Gneiss, E. of Exit 6 on Interstate 87, New York				Abdel-Monem, 1968
whole rock	315 ± 16			
biotite	355 ± 14			
Fordham Gneiss, Routes 9A and 100, N. of Briarcliff				Abdel-Monem, 1968
whole rock	370 ± 18			
biotite	380 ± 11			
Manhattan Schist, intersection of Route 9 and Cedar Lane				Abdel-Monem, 1968
whole rock	330 ± 17			
biotite	355 ± 14			
Fordham Gneiss, on the Hudson River at Oscowana				Abdel- Monem, 1968
whole rock	460 ± 24			
biotite	480 ± 11			
Manhattan Schist, Route 129 across narrow bridge over New Croton Reservoir				Abdel-Monem, 1968
whole rock	345 ± 17			
Sandstone, Brunswick Fm. (Upper Jurassic), 0.2 mi. E. of Exit 14, New York Thruway				Abdel-Monem, 1968
whole rock	360 ± 18 (too old)			
Conglomerate, Border Conglomerate, (Upper Triassic), 0.2 mi. W. of intersection of Route 306 and New York Thruway				Abdel-Monem, 1968
whole rock	930 ± 46 (too old)			
Arkose, Border Conglomerate, (Upper Triassic), 1 mi. E. of Exit 15 on New York Thruway				Abdel-Monem, 1968
whole rock	870 ± 43 (too old)			

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
	NEW YORK	(Cont'd)		
Fordham Gneiss, roadcut, Inter- change 8, Elmsford hornblende	430 ± 16			Clark, 1968
Fordham Gneiss, roadcut near White Plains hornblende	315 ± 12			Clark, 1968
Fordham Gneiss, roadcut near White Plains hornblende biotite	310 ± 12 310 ± 12			Clark, 1968
Schist, roadcut on Interstate 95 near Port Chester muscovite	320 ± 12			Clark, 1968
Gneiss, roadcut on Interstate 95, Port Chester hornblende	285 ± 11			Clark, 1968
Gneiss, roadcut along Banksville Road, 2-1/2 mi. S. of Bedford Village biotite	315 ± 13			Clark, 1968
Fordham Gneiss, roadcut near Bedford Village biotite	315 ± 13			Clark, 1968
Fordham Gneiss, roadcut on Jay St. near Katonah biotite	370 ± 15			Clark, 1968
Fordham Gneiss, roadcut at NE end of Cross River Reservoir, Katonah biotite	360 ± 14			Clark, 1968
Fordham Gneiss, roadcut on Route 35, 0.7 mi. N. of Route 124 intersection biotite	335 ± 13			Clark, 1968
Fordham Gneiss, roadcut at north end of Kensico Reservoir hornblende	395 ± 16			Clark, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>NEW YORK</u> (Cont'd)				
Gneiss, roadcut on Route 35 nearly on state line biotite	330 ± 13			Clark, 1968
Granite gneiss, roadcut, 3 mi. E. of Pound Ridge biotite	280 ± 11			Clark, 1968
Mica quartzite, roadcut on Upper Shad Road near state line biotite	305 ± 12			Clark, 1968
Fordham Gneiss, railroad cut at Oscawana biotite	455 ± 18			Clark, 1968
Fordham Gneiss, outcrop at junction of Routes 124 and 116 biotite	315 ± 13			Clark, 1968
Yonkers Gneiss, quarry south of Lake Street, Barnes Road intersection, Westchester Co. hornblende	445 ± 18			Clark, 1968
Taconic Slate, 42°51'N, 73°21'W whole rock	420			Harper (1968)
Taconic Slate, 43°03'N, 73°21'W whole rock	415			Harper (1968)
Taconic Slate, 43°13'N, 73°17'W whole rock	375			Harper (1968)
Taconic Slate, 43°34'N, 73°20'W whole rock	460			Harper (1968)
<u>North Carolina</u>				
Saprolite from syenite, near Concord, 35°22'N, 80°36'W zircon			410±80	Marvin, 1968
Blowing Rock Gneiss, 36°01'N, 81°41'W zircon			1020±115	Marvin, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>OREGON</u>				
Basal ash-flow tuff, John Day Fm., roadcut on country road 2.2 mi. SW of Ashwood, NE1/4, NE1/4, sec. 10, T10S, R16E soda sanidine	36.4 ± 1.1			Swanson, 1968
Porphyritic rhyolite flow, 1 mi NNE of Horse Heaven Mine, Clarno Fm., NE1/4, NW1/4, sec. 6, T10S, R19E sanidine	41.0 ± 1.2			Swanson, 1968
<u>Puerto Rico</u>				
Gneissic amphibolite, Las Palmas, 17°54'N, 67°08'W hornblende	86.3±8.6 84.9±8.5			Tobisch (1968)
<u>Rhode Island</u>				
Ten Rod Granite from Hope Valley and Narragansett Pier quadrangles. Four whole rock samples create a Rb-Sr isochron of 368±196 m.y. (probably this age reflects effects of a thermal event about 250 m.y. ago). Three whole rock samples (dropping one of the above samples) create a Rb-Sr isochron of 658±66 m.y.				
Hope Valley Alaskite from Hope Valley, Carolina, and Slocum quadrangles. Four whole rock samples create a Rb-Sr isochron of 303±19 m.y. (probably this age reflects effects of a thermal event about 250 m.y. ago). Three whole rock samples (dropping the sample from Slocum quad. above) create a Rb-Sr isochron of 608±76 m.y.				
Six whole rock samples (3 Ten Rod Granite and 3 Hope Valley Alaskite) create a Rb-Sr isochron of 638±42 m.y.				
Day, 1968				

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)		Pb- α	Reference
	K-Ar	Rb-Sr		
<u>Tennessee</u>				
Schist, Ducktown District				Magee, 1968
muscovite	323			
biotite	347			
Phyllite-mica schist, Ducktown District				Magee, 1968
biotite	434			
Schist, 250 ft. in footwall, Calloway ore body, Ducktown				Magee, 1968
muscovite	327			
Schist, 15 ft. in footwall, Calloway ore body, Ducktown				Magee, 1968
biotite	1199			
Schist, Calloway ore body, Ducktown				Magee, 1968
biotite	374			
Gneiss, Calloway ore body, Ducktown				Magee, 1968
hornblende	1045			
Schist, Boyd ore body, Ducktown				Magee, 1968
hornblende	387			
Gangue, Eureka ore body, Ducktown				Magee, 1968
hornblende	478			

Ages Published in 1968

Rock type and location Material Analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
<u>Texas</u>				
Rhyolite(?) (Mitchell Mesa), Buck Hill Volcanics, Brewster Co., approx. 29°59'N, 103°44'30"W sanidine	33.9±1.8			Wilson, 1968
Vitrophyre(?) (Brite Ignimbrite), Vieja Group, Presidio Co. Approx. 30°06'N, 104°40'W sanidine	33.0±1.1			Wilson, 1968
Bracks Rhyolite, Vieja Group, Presidio Co., approx. 30°19'N, 104°35'W sanidine	36.5±1.2			Wilson, 1968
Trachyte (Pantera Ignimbrite), Garren Group, Culberson Co. approx. 30°19'N, 104°35'W sanidine	32.4±1.7(1ow)			Wilson, 1968
Trachyte (Pantera Ignimbrite), Garren Group, Jeff Davis Co. approx 30°39'N, 104°43'W sanidine	34.2±3.0(1ow)			Wilson, 1968
Tuff (Chambers Tuff), Vieja Group, Presidio Co., approx. 30°33'N, 104°47'W sanidine	39.8±2.8			Wilson, 1968
Vitrophyre(?) (Buckshot Ignimbrite), Vieja Group, Jeff Davis Co., approx. 30°40'N, 104°44'W sanidine "	38.6±1.2 34.7±2.0(1ow)			Wilson, 1968
Vitrophyre(?) (Buckshot Ignimbrite), Vieja Group Presidio Co., approx. 30°15'N, 104°43'W sanidine	35.2±2.3(1ow)			Wilson, 1968
Trachybasalt (Gill Breccia), Vieja Group, Presidio Co. approx. 30°13'N, 104°43'W whole rock	40.0±2.0			Wilson, 1968

Ages Published in 1968

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb-α	References
<u>UTAH</u>				
Feldspathic gneiss, north end of Uncompahgre Plateau, around 38°58'N, 109°10'W				Hedge, 1968
six whole rocks		1630 ± 130 isochron		
Porphyroblastic gneiss, north end of Uncompahgre Plateau, 39°02.5'N, 109°07.5'W				Hedge, 1968
four whole rocks		1670 ± 30 isochron		
Gneissic granodiorite, north end of Uncompahgre Plateau, around 38°47'N, 108°50'W				Hedge, 1968
four whole rocks		1670 ± 40 isochron		
Amphibolite, 39°59.0'N, 109°10.3'W, Uncompahgre Plateau				Hedge, 1968
hornblende	1460 ± 50			
Amphibolite, 38°56.5'N, 109°08.6'W, Uncompahgre Plateau				Hedge, 1968
hornblende	1360 ± 50			
Spry intrusion, Piute County, 38°01'41"N, 112°19'56"W				Damon, 1968
hornblende	30.4 ± 1.5			
Osiris Fm. (uppermost ignimbrite of the Isom Fm. ?), Piute County, 38°09'56"N, 112°01'52"W				Damon, 1968
sanidine	20.3 ± 0.5			
Monzonite, Tintic Mining District, 39°57'48"N, 112°04'10"W				Damon, 1968
biotite	34.1 ± 1.0			
Monzonite of "Silver City," Tintic Mining District, 39°55'00"N, 112°07'05"W				Damon, 1968
biotite	31.5 ± 0.9			
Quartz latite "Packard," Tintic Mining District, 39°58'40"N, 112°03'54"W				Damon, 1968
biotite	32.8 ± 1.0			
sanidine	32.7 ± 1.0			

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>Utah</u> (Cont'd)				
Latite "Laguna Springs," Tintic Mining District, 39°58'43"N, 112°00'23"W				Damon, 1968
sanidine	18.3±0.5			
sanidine	15.9±2.6			
Latite "Silver Shield Dike," Tintic Mining District, 39°57'52"N, 112°04'29"W				Damon, 1968
biotite	17.9±0.5			
Pegmatite in Little Willow Series, central Wasatch Mts.				Mauger, 1968
muscovite	29.5±1.0			
Schist, Little Willow Series (Precambrian), central Wasatch Mts.				Mauger, 1968
muscovite	27.3±0.9			
Quartz monzonite, Notch Peak intrusive, House Range, Millard Co.				Lee, 1968
zircon			200±40	
Zenolith, Notch Peak intrusive, House Range, Millard Co.				Lee, 1968
zircon			180±20	
"Trachyte" plug, Moon Canyon, 3 miles E of Francis				Best, 1968
phlogopite	40.4			
"	39.4			
Analcime wyomingite flow, Moon Canyon, 3 miles E of Francis				Best, 1968
phlogopite	36.5			
"	37.4			
"Trachyte" dike, head of Whites Creek, 5 miles NNE of Oakley				Best, 1968
phlogopite	13.7			
"	12.8			
Mica peridotite, 300 ft. SE of NWC of sec. 32, T1S, R8E				Best, 1968
phlogopite	38.7			

Ages Published for 1968

Rock type and location Material Analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
Utah (Cont'd)				
Monzonite (Last Chance Stock), 1400 level, U. S. Mine, Bingham district biotite	38.9±1.2			Moore, 1968
Monzonite (Last Chance Stock), 1400 level, U. S. Mine, Bingham district biotite	38.5±1.3			Moore, 1968
Quartz monzonite (Last Chance Stock), U. S. Mine, Bingham district biotite	38.3±1.3			Moore, 1968
Pegmatite (Last Chance Stock), 200 level, U. S. Mine, Bingham district biotite	37.9±1.0			Moore, 1968
Monzonite (Bingham Stock), Mascott tunnel, Lark Mine, Bingham district biotite	37.7±1.2			Moore, 1968
Monzonite (Bingham Stock), Mascott tunnel, Lark Mine, Bingham district biotite	37.7±1.2			Moore, 1968
Monzonite (Bingham Stock), U. S. Mine, Bingham district biotite	37.5±1.2			Moore, 1968
Syenite (Bingham Stock), Utah Metals tunnel, Bingham district biotite phlogopite	37.2±1.2 37.3±1.2			Moore, 1968
Quartz latite dike, portal of Bingham haulage tunnel, Bingham district biotite hornblende	36.9±1.0 36.9±1.0			Moore, 1968
Rhyolite vitrophyre (rhyolite of Shaggy Peak), NE 1/4, sec. 4, T3S, R2W biotite	34.1±1.0			Moore, 1968

Ages Published for 1968

Rock type and location Material Analyzed	Age (m.y.)		Pb-α	References
	K-Ar	Rb-Sr		
Utah (Cont'd)				
Rhyolite (rhyolite of Shaggy Peak), SW 1/4, sec. 4, T3S, R2W biotite	32.0±0.9			Moore, 1968
Latite dike, Utah Copper pit, Bingham district biotite "	38.3±1.4 38.2±1.4			Moore, 1968
Latite dike, Utah Copper pit, Bingham district biotite biotite	38.1±1.3 36.9±1.3			Moore, 1968
Latite dike, Utah Copper pit, Bingham district biotite	37.7±1.0			Moore, 1968
Altered latite dike, Utah Copper pit, Bingham district biotite	35.9±1.6			Moore, 1968
Altered monzonite, Utah Copper pit, Bingham district biotite "	37.3±1.4 37.0±1.4			Moore, 1968
Altered monzonite, Utah Copper pit, Bingham district biotite	36.5±1.2			Moore, 1968
Altered monzonite, Utah Copper pit, Bingham district biotite	36.0±1.5			Moore, 1968
Quartz monzonite, Rocky Range, 38°27'N, 113°05'W biotite hornblende	20.8±0.6 27.0±0.8			Marvin, 1968
Granodiorite, OK Stock, 38°29'N, 113°07'W hornblende	28.4±0.9			Marvin, 1968

Ages Published in

Rock type and location Material Dated	Age (m.y.)			Reference
	<u>K-Ar</u>	<u>Rb-Sr</u>	<u>Pb-α</u>	
<u>Utah (Cont'd)</u>				
Quartz monzonite, San Francisco district, 38° 24'N, 113°07'W biotite	20.9±0.6			Marvin, 1968
Biotite tuff, 38°27'N, 113°14'W biotite	22.4±0.7			Marvin, 1968
Tuff, Needles Range Fm., 38°17'N, 113°16'W biotite hornblende	29.0±0.9 29.2±0.9			Marvin, 1968
Ignimbrite, 38°27'N, 113°16'W K-feldspar	21.9±0.7			Marvin, 1968
Granodiorite, Cactus stock, 38°29'N, 113°19'W biotite	28.0±0.8			Marvin, 1968

Ages Published for 1968

Rock type and location Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Vermont</u>				
Moretown Schist, Missisquoi Fm., 42°52'N, 72°44'W				Harper (1968)
biotite	342			
muscovite	334			
muscovite	325			
Gneiss, Sadawga Dome, 42°51'N, 72°49'W				Harper (1968)
muscovite	348			
biotite	318			
Gneiss, 42°48'N, 73°07'W				Harper (1968)
biotite	859			
Gneiss, 43°12'N, 72°56'W				Harper (1968)
biotite	607			
Moretown Schist, Missisquoi Fm., 43°04'N, 72°43'W				Harper (1968)
muscovite	346			
biotite	344			
Gneiss, Athens Dome, 43°06'N, 72°09'W				Harper (1968)
muscovite	347			
biotite	326			
Taconic Slate, 43°16'N, 73°12'W				Harper (1968)
whole rock	388			
Taconic Slate, 43°30'N, 73°15'W				Harper (1968)
whole rock	446			
Hoosac Schist, 44°56'N, 72°56'W				Harper (1968)
muscovite	383			
muscovite	380			
biotite	381			
Northfield Slate, 44°08'N, 72°39'W				Harper (1968)
whole rock	338			
Missisquoi Phyllite, 44°08'N, 72°40'W				Harper (1968)
whole rock	342			

Ages Published for 1968

Rock type and locations Material analyzed	K-Ar	Age (m.y.) Rb-Sr	Pb- α	Reference
<u>Vermont (Cont'd)</u>				
Missisquoi Phyllite, 44°17'N, 72°39'W whole rock	352			Harper (1968)
Underhill Schist, 44°17'N, 72°58'W muscovite	393			Harper (1968)
Hazen Notch Schist, 44°29'N, 72°44'W muscovite	405			Harper (1968)
Underhill Schist, 44°33'N, 72°47'W muscovite biotite	391 374			Harper (1968)
Underhill Schist, 44°39'N, 72°46'W muscovite	407			Harper (1968)
Hazen Notch Schist, 44°44'N, 72°45'W muscovite	395			Harper (1968)
Hazen Notch Schist, 44°46'N, 72°36'W muscovite	380			Harper (1968)
Hazen Notch Schist, 44°50'N, 72°32'W muscovite	439			Harper (1968)
Hazen Notch Schist, 45°00'N, 72°33'W muscovite	384			Harper (1968)
Hazen Notch Schist, 44°59'N, 72°30'W muscovite	423			Harper (1968)
Stowe Slate, 44°57'N, 72°15'W whole rock	362			Harper (1968)

Ages Published in 1968

Rock type & Location Material Dated	K-Ar	Age (m.y.) Rb-Sr	Pb-α	Reference
<u>VIRGINIA</u>				
Petersburg Granite, Trego Stone Corp. Quarry, 2 mi. W. of Skippers, Greenville Co.				Bottino, 1968
whole rocks (fresh)		580 ± 30 (average)		
whole rocks (weathered)		495 ± 30 (average)		
whole rocks (fresh, NW side of quarry)		460 ± 15 (average)		
whole rocks (weathered, NW side of quarry)		425 ± 25 (average)		
Lynchburg Gneisses, 1/2 mi. E. of Long Branch Church at Halfway, Fauquier Co. on Highway 626				Furcron, 1968
biotite (?)	425±25			
Lynchburg Gneisses, W. side of bridge over Mechum River, Albemarle Co. Highway 614				Furcron, 1968
biotite(?)	410±25			
Lynchburg Gneisses, Intersection of perimeter highway and Highway 29 on south side of Charlottesville, Albemarle Co.				Furcron, 1968
biotite(?)	345±20			
Teschenite dike, Wenger Farm, Augusta Co., 38°07'N, 79°03'W (?)				Marvin, 1968
biotite	152±5			
hornblende	151±10			
Bentonite in Martinsburg Shale (Ordovician), 38°58'N, 78°24'W				Marvin, 1968
zircon			410±50	
zircon			400±45	

Ages Published in 1968

Rock type and location Material Analyzed	Age (m.y.)		References
	K-Ar	Rb-Sr	
<u>Washington</u>			
Quartz diorite (Pasayten Dike), Okanogan Co., approx. 48°46'15"N, 120°36'W			Tabor, 1968
biotite	87.7±2.6		
biotite (replicate)	85.3±2.6		
hornblende	86.0±2.6		
Granodiorite (Rock Creek Dike), Okanogan Co., approx. 48°55'N, 120°44'W			Tabor, 1968
hornblende	86.1±2.6		
Granodiorite (Castle Peak Stock), Okanogan Co., approx. 48°59'45"N, 120°51'W			Tabor, 1968
biotite	49.8±1.5		
hornblende	49.5±1.5		
Granite (Monument Peak Stock), Okanogan Co., approx. 48°48'N 120°32'W			Tabor, 1968
biotite	47.9±1.4		
Granite (Golden Horn batholith), road cut on State No. 20, S. of Cutthroat Creek, Okanogan Co.(?)			Tabor, 1968
biotite	46.6±1.4		
Andesite, Stevens County, approx. 48°57'N, 117°56'45"W			Yates, 1968
hornblende	50.5 ± 1.5		
"Minette," Stevens County, approx. 48°46'50"N, 117°54'45"W			Yates, 1968
biotite	49.9 ± 1.5		
Shonkinite, Stevens County, approx. 48°45'50"N, 117°56'30"W			Yates, 1968
biotite	49.7 ± 1.5		
Andesite, Stevens County, approx. 48°57'N, 117°56'45"W			Yates, 1968
biotite	50.4 ± 1.5		

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.) K-Ar	Rb-Sr	Pb- α	References
WASHINGTON (Cont'd)				
Coryell Batholith, monzonite dike, Stevens County, approx. 48°54'N, 117°51'15"W biotite	50.4 ± 1.5			Yates, 1968
Lamprophyre dike, Stevens County, approx. 48°58'N, 117°39'W hornblende	51.7 ± 1.5			Yates, 1968
Rhyodacite flow, Stevens County, approx. 48°45'50"N, 117°54'30"W hornblende	49.8 ± 1.5			Yates, 1968
Coryell Batholith, monzonite dike, Stevens County, approx. 48°54'N, 117°51'15"W biotite	50.7 ± 1.5			Yates, 1968
Tuffaceous sandstone, O'Brien Creek Fm., Stevens County, approx. 48°48'N, 117°55'W biotite	41.6 ± 1.2			Yates, 1968
biotite	41.1 ± 1.2			
Tuffaceous sandstone, O'Brien Creek Fm., Stevens County, approx. 48°46'N, 117°56'30"W biotite	40.2 ± 1.3			Yates, 1968
Quartz diorite, Spirit pluton, Stevens County, approx. 48°46'45"N, 117°32'W hornblende	94.0 ± 3.0			Yates, 1968
Quartz monzonite dike, Spirit pluton, Stevens County, approx. 48°47'N, 117°32'30"W biotite	91.0 ± 3.0			Yates, 1968
muscovite	96.0 ± 3.0			
Granodiorite, Spirit pluton, Stevens Co., approx. 48°45'20"N, 117°50'W biotite	100.0 ± 2.8			Yates, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>WASHINGTON</u> (Cont'd)				
Quartz monzonite, Kaniksu batholith, Stevens County, approx. 48°45'10"N, 117°31'W biotite	92.2 ± 3.0			Yates, 1968
Pegmatite, Kaniksu batholith, Stevens County, approx. 48°45'10"W, 117°31'W muscovite	99.1 ± 3.2			Yates, 1969

Hornblende-biotite gneiss, Spanish Camp Gneiss Complex, Bald Mt., Okanogan Range hornblende	101.6±4.0			Hawkins, 1968
Granodiorite (?), Cathedral Batholith, approx. 48°51'N, 120°01'W biotite	94.0±2.8			Hawkins, 1968
Tonalite (?), Beckler Peak stock, C sec. 28, T26N, R12E biotite		94.2±16		Yeats, 1968
Tonalite (?), Mount Stuart pluton, sec. 29, T26N, R12E biotite "	80±5 77±5	86±14		Yeats, 1968
Granodiorite (?), Index pluton, Index quarry, sec. 19, T27N, R10E biotite	33±5	35±5		Yeats, 1968
Granodiorite (?), Index pluton, Halford quarry, sec. 34, T27N, R10E biotite		40±2		Yeats, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>WYOMING</u>				
Gneiss, Bighorn Mountains, approx. 44°21'30"N, 107°14'W biotite	2780			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°01'30"N, 106°56'W biotite	2720			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°11'30"N, 107°02'30"W biotite	2700			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°30'30"N, 106°57'W biotite	2680			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°09'20"N, 107°10'W biotite	2550			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°15'30"N, 106°51'30"W biotite	2430			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°04'N, 107°04'W biotite	2310			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°25'N, 106°00'W feldspar	1980			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°23'30"N, 107°06'W feldspar	1970			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°17'20"N, 107°11'W feldspar	1830			Heimlich, 1968
Gneiss, Bighorn Mountains, approx. 44°19'30"N, 107°19'W feldspar	1400			Heimlich, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
	<u>WYOMING</u> (Cont'd)			
Gneiss, Bighorn Mountains, approx. 44°16'N, 106°57'30"W whole rock	2170			Heimlich, 1968
Agmatite, Bighorn Mountains, approx. 44°26'45"N, 107°15'W biotite	2960			Heimlich, 1968
Quartz diorite, Bighorn Mountains, approx. 44°31'N, 106°57'10"W biotite	3180			Heimlich, 1968
Quartz diorite, Bighorn Mountains, approx. 44°33'30"N, 107°20'W biotite	3100			Heimlich, 1968
Quartz diorite, Bighorn Mountains, approx. 44°20'N, 107°20'W biotite	2850			Heimlich, 1968
Quartz diorite, Bighorn Mountains, approx. 44°33'30"N, 107°05'W biotite	2740			Heimlich, 1968
Quartz monzonite, Bighorn Mountains, approx. 44°41'45"N, 107°45'W biotite	2830			Heimlich, 1968
Quartz monzonite, Bighorn Mountains, approx. 44°47'N, 107°23'30"W biotite	2800			Heimlich, 1968
Quartz monzonite, Bighorn Mountains, approx. 44°48'30"N, 107°27'30"W biotite	2710			Heimlich, 1968
Schist skialith, Bighorn Mountains, approx. 44°44'45"N, 107°22'30"W biotite	3060			Heimlich, 1968

Ages Published in 1968

Rock type and location Material analyzed	Age (m.y.)			References
	K-Ar	Rb-Sr	Pb-α	
<u>WYOMING</u> (Cont'd)				
Lake McLain Quartz Diorite, Bighorn Mountains, approx. 44°14'45"N, 107°05'W whole rock	2690			Heimlich, 1968
Peridotite, Bighorn Mountains, approx. 44°24'N, 107°14'W whole rock	2990			Heimlich, 1968
Dolerite, Bighorn Mountains, approx. 44°50'N, 107°52'W feldspar	2040			Heimlich, 1968

Sherman-type Granite, T14N, R78W; T14N, R77W; T12N, R78W; Medicine Bow Mtns. four whole rocks			1335+30 (isochron)	Hills, 1968
Adamellite gneiss, T13N, R81W, Medicine Bow Mtns. three whole rocks			1470+160 (isochron)	Hills, 1968
Leucogranite to adamellite gneiss, T13N, R81W, Medicine Bow Mtns. three whole rocks			1715+60 (isochron)	Hills, 1968
Pegmatite, T13N, R77W, Medicine Bow Mtns. muscovite, microcline, plagioclase			1515+40 (isochron)	Hills, 1968
Pegmatite, T12N, R79W, Medicine Bow Mtns. muscovite, microcline			1455+40 (isochron)	Hills, 1968
Pegmatite, T13N, R81W, Medicine Bow Mtns. muscovite			1570+40	Hills, 1968
Pegmatite, T15N, R82W, Medicine Bow Mtns. muscovite muscovite, microcline	1580+80		1590+40 (isochron)	Hills, 1968

Ages Published in 1968

Rock type & Location Material Dated	Age (m.y.)			Reference
	K-Ar	Rb-Sr	Pb-α	
<u>Wyoming</u> (Cont'd)				
Pegmatite, quarry on Casper Mt., SEC, sec. 17, T32N, R79W muscovite, microcline		2500+60		Hills, 1968
Slate (French Slate Fm), T16N, R79W, Medicine Bow Mtns. six whole rocks		1550+425 (isochron)		Hills, 1968
Slate (mostly), (Lookout Schist), T16N, R79W, Medicine Bow Mtns. five whole rocks		1650+60 (isochron)		Hills, 1968
Slate (Headquarters Schist), T16N, R80W, Medicine Bow Mtns. whole rock, biotite		1550+40 (isochron)		Hills, 1968
Schist (Deep Lake Fm.), T19N, R79W, Medicine Bow Mtns. two whole rocks		1840 (isochron) ±(?)		Hills, 1968
Adamellite (Baggot Rocks Granite), T15N, R83W; T16N, R83W, Medicine Bow Mtns. five whole rocks		2340+50 (isochron)		Hills, 1968
Adamellite (Baggot Rocks Granite), T16N, R83W, Medicine Bow Mtns. whole rock, apatite, microcline, plagioclase biotite		1580+35 (isochron) 1450+40		Hills, 1968
Adamellite (Baggot Rocks Granite), T15N, R83W, Medicine Bow Mtns. whole rock, apatite, epidote, plagioclase, microcline biotite		1490+70 (isochron) 1470+40		Hills, 1968
Adamellite gneiss, T16N, R83W; T17N, R83W; T19N, R79W; Medicine Bow Mtns. five whole rocks		2410+50 (isochron)		Hills, 1968
Adamellite gneiss, T19N, R79W, Medicine Bow Mtns. three whole rocks		2260+80 (isochron)		Hills, 1968

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