

**COMPILATION OF PRECAMBRIAN ISOTOPIC AGES
IN NEW MEXICO**

by

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New Mexico Bureau of Mines and Mineral Resources
Open-File Report 389

January, 1993

New Mexico Bureau of Mines and Mineral Resources
Socorro, New Mexico 87801

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Introduction

This compilation contains information on 350 published and unpublished radiometric ages for Precambrian rocks of New Mexico. All data were collected from original references, entered into a REFLEX database, and sorted according to several criteria. Based on author's descriptions, samples were located as precisely as possible on 7.5' topographic quadrangle maps, which are on file at the New Mexico Bureau of Mines and Mineral Resources.

Data are sorted in several ways. Part I will probably be the most useful cross index for most users; it lists all ages chronologically according to isotopic method. Part II contains all of the data for each of the determinations. Parts III, IV, V, and VI are specialized cross indices that can be useful for certain kinds of searches (mountain range, rock unit name, and county).

Figure 1 is a map of New Mexico showing the distribution of Precambrian rocks, and the mountain ranges and physiographic provinces used in the database. Figure 2 contains histograms of ages according to isotopic system, constructed by QUATTRO PRO software. Figure 3 is a graph showing age determinations of ten rocks which have U-Pb zircon and at least one other isotopic system age (Rb-Sr, K-Ar, Ar-Ar). This graph illustrates that Rb-Sr, K-Ar, and Ar-Ar ages are typically younger than the crystallization age (U-Pb zircon age), indicating that these other isotopic systems were reset by later thermal/metamorphic events.

In Part I, ages are listed chronologically according to isotopic method. Part Ia contains 69 U-Pb ages, almost exclusively from zircon (zircon=66; sphene=1; apatite=1; monazite=1). Part Ib contains 37 Pb-Pb model ages (zircon=28; sphene=4; epidote=3; galena=2). Part 1c contains 185 Rb-Sr data, including both isochron and model ages. Part Id contains 42 K-Ar ages, from both whole-rock samples and mineral separates. Part Id contains 17 new and potentially controversial determinations based on the ^{40}Ar - ^{39}Ar method. Part Ie contains a miscellaneous list of Sm-Nd data and age determinations that are of uncertain geological significance. These include fission-track, Pb-alpha, invalid Rb-Sr isochron ages, single point model ages, and K-Ar determinations plagued by excess Ar. These uncertain data are not included in any of the other indices.

For most applications, this format is more useful than a single chronologic list that mixes all isotopic methods, because of the typically large differences in isotopic age of a single sample between the various isotopic systems. For example, White (1977) calculated an Rb-Sr age of 1274 ± 63 Ma for the Magdalena granite, whereas Bowring et al. (1983) determined a U-Pb zircon age of 1654 ± 1 Ma for the same pluton. Such discrepancies are characteristic of the Precambrian of New Mexico, and it is generally agreed that in medium-grade metamorphic terrains, U-Pb zircon ages typically record the time of crystallization of igneous rocks, whereas the Rb-Sr, K-Ar, and Ar-Ar systematics were wholly or partially reset by subsequent thermal events.

Part II is a comprehensive master list of all of the information gathered for each age entry. It is organized from youngest to oldest, and contains data on location, unit name, type of age (isochron, model, plateau, etc.), isotopic method, rock type, metamorphism and deformation, material dated, decay constant, lab used, references, and comments on the geologic or geographic setting and the significance of the date. Each entry is denoted with a record number (from 1 to 350) that is referenced in the cross indices in parts I, III, IV, V. The detailed information in Part II can be used to check an age found in any of the cross indices. We recommend that users refer to the comments section for questions concerning an analysis, and to check the original reference in situations where the significance of an age is uncertain. A double-asterisk "flag" (**) following the isotopic age indicates that, in the opinion of the authors, the significance or validity of the age is uncertain. In many cases, this indicates that the rock has undergone a complex thermal/metamorphic history, and the reported isotopic age may not necessarily represent a time of crystallization or metamorphism. This is especially true for ages based on the Rb-Sr, K-Ar, and Ar-Ar systems. Many of these indeterminate ages are included for completeness only, and should not be cited as representative of times of crystallization, accumulation, or peak metamorphism. A number of U-Pb zircon ages by L.T. Silver that do not contain uncertainties or precise locations are referenced as personal communications. These ages represent data that have been presented orally at professional meetings. In some cases, these are the only geochronologic controls available in an area.

All ages for which analytical data are available, or which were published prior to 1976, have been recalculated using the current decay constants of Steiger and Jager (1977). Old K-Ar ages were recalculated using the conversion tables of Dalrymple (1979). Rb-Sr data were recalculated according to the formula $t_2 = t_1 \cdot \lambda_1 / \lambda_2$ where t_2 = recalculated age, t_1 = old age, λ_1 = old decay constant, and λ_2 = new decay constant. Old U-Pb and Pb-Pb ages were reduced as follows to approximate new decay constants: U-Pb: reduce by 2%; $^{206}\text{Pb}/^{238}\text{Pb}$: reduce by 1.1%; $^{207}\text{Pb}/^{235}\text{Pb}$: reduce by 1%. ^{207}Pb - ^{206}Pb model ages are unaffected by decay constants.

Part III is a cross index that arranges dates according to location within a mountain range. These ranges are shown in Figure 1. The range with the most listings is the Picuris Mountains, with 80 determinations. Each entry includes isotopic age, isotopic method, material dated, name of unit, rock type, record number. Most geographic names are from USGS maps, however several data points from drillholes were assigned names based on geologic settings (e.g. Las Vegas basin or Pecos slope). The Sangre de Cristo Mountains are divided into several ranges. These include the southern Sangre de Cristo Mountains, the Rincon Range, the Cimarron Mountains, the Picuris Mountains, and the Taos Range. Areas within the mountain ranges are loosely based on the nearest geographic feature labelled on the 7.5' quadrangle map. Areas include towns, mountains, canyons, rivers, etc.

All areas used in the text are shown in Appendix A.

Part IV arranges ages alphabetically according to the name of the rock unit. This includes formal names of groups, formations, complexes, and igneous units (e.g. Vadito Group, Pecos Complex, Sandia Granite), as well as informally named and previously unnamed units. The list also contains the isotopic age, isotopic method, material dated, mountain range, and rock type. Units with published names such as the "Granite of Old Mike Peak" were inverted (e.g. Old Mike Peak Granite) for the purpose of organizing the data alphabetically. Units without formal names were assigned informal rock-unit names based on nearby geographic features (e.g. Kilbourne Hole xenolith). In all cases, informal names are listed in lowercase letters, whereas formal names are in uppercase. Rocks from drillholes are named according to the name of the drillhole (e.g. Sun No. 1 Bingham State granite). With only minor exceptions, the rock-type designations (e.g. granite, metarhyolite, amphibolite) are listed as given in the original references.

Part V is a cross index by county. Of the 33 counties in New Mexico, 25 contain dated Proterozoic rocks. This index also lists the isotopic age, isotopic method, material dated, mountain range, rock unit, and record number. The county with the most listings is Taos County, with 104 determinations.

Part VI is a complete list of references cited in the compilation. Also included are publications that summarize Precambrian geochronological data and that reworked earlier data. Appendix 1 lists all of the area designations by county.

In researching this compilation, we have attempted to locate every published and unpublished isotopic age for the Precambrian of New Mexico. Undoubtly, we have failed. However, this database is designed to be easily updated, and we expect to periodically release new editions. If you know of Precambrian isotopic ages that are not included in this work, please send the information to the attention of Paul Bauer, NM Bureau of Mines and Mineral Resources, Socorro, NM 87801. Phone: (505) 835-5106. FAX: (505) 835-6333. email: bauer@jupiter.nmt.edu

Acknowledgments

This collection was inspired by the recent publication of the Arizona Bureau of Geology and Mineral Technology's *Compilation of Radiometric Age Determinations in Arizona* by Reynolds, et al. (1986, Bulletin 197, 258 p.). David Ward of the University of New Mexico geochronology lab provided information on recalculating ages. Lynne Hemenway of the New Mexico Bureau of Mines and Mineral Resources entered most of the data in REFLEX. The cheerful efforts of Gretchen Hoffman of the New Mexico Bureau of Mines and Mineral Resources with REFLEX and QUATTRO PRO resulted in the fine cross indices and histograms. Sam Bowring, Mark Helper, Karl Karlstrom, and Steve Ralser provided valuable ideas and advice.

Figure 1. Map of New Mexico showing Precambrian exposures, and mountains and physiographic provinces used in database.

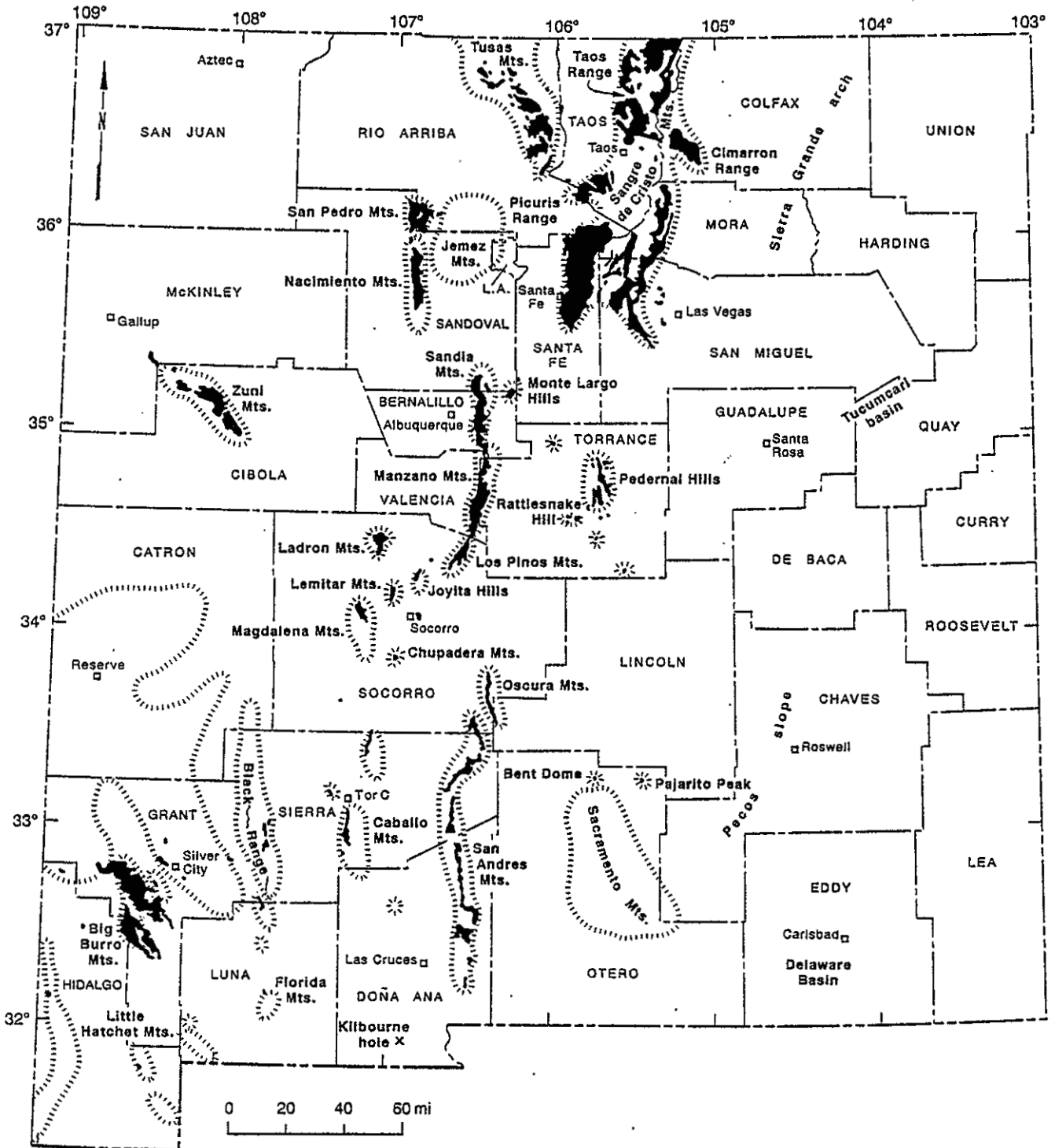


Table A. Geochronology laboratories listed in database, with number of determinations.

Cal Tech	19
Carnegie Institution	12
Florida State	9
Kriti, Houston	1
Krueger	2
M.I.T.	11
Miami Univ.	14
Mobil, Dallas	5
U. CA, Santa Barbara	3
U. of Arizona	20
U. of British Columb	2
U. of Georgia	17
U. of Kansas	24
U. of TX, Austin	25
U. of TX, Dallas	7
UNC	6
UNM	94
UNM and UNC	30
USGS	41
Washington Univ.	3

Table B. Decay constants.

$$\text{U-Pb } \lambda_{235} = 9.8485 \times 10^{-10} \text{ yr}^{-1}$$

$$\lambda_{238} = 1.55125 \times 10^{-10} \text{ yr}^{-1}$$

Approximations for pre-1980 Pb dates:

U-Pb concordia ages -- 2.00% reduction

^{238}U - ^{208}Pb ages -- 1.10% reduction

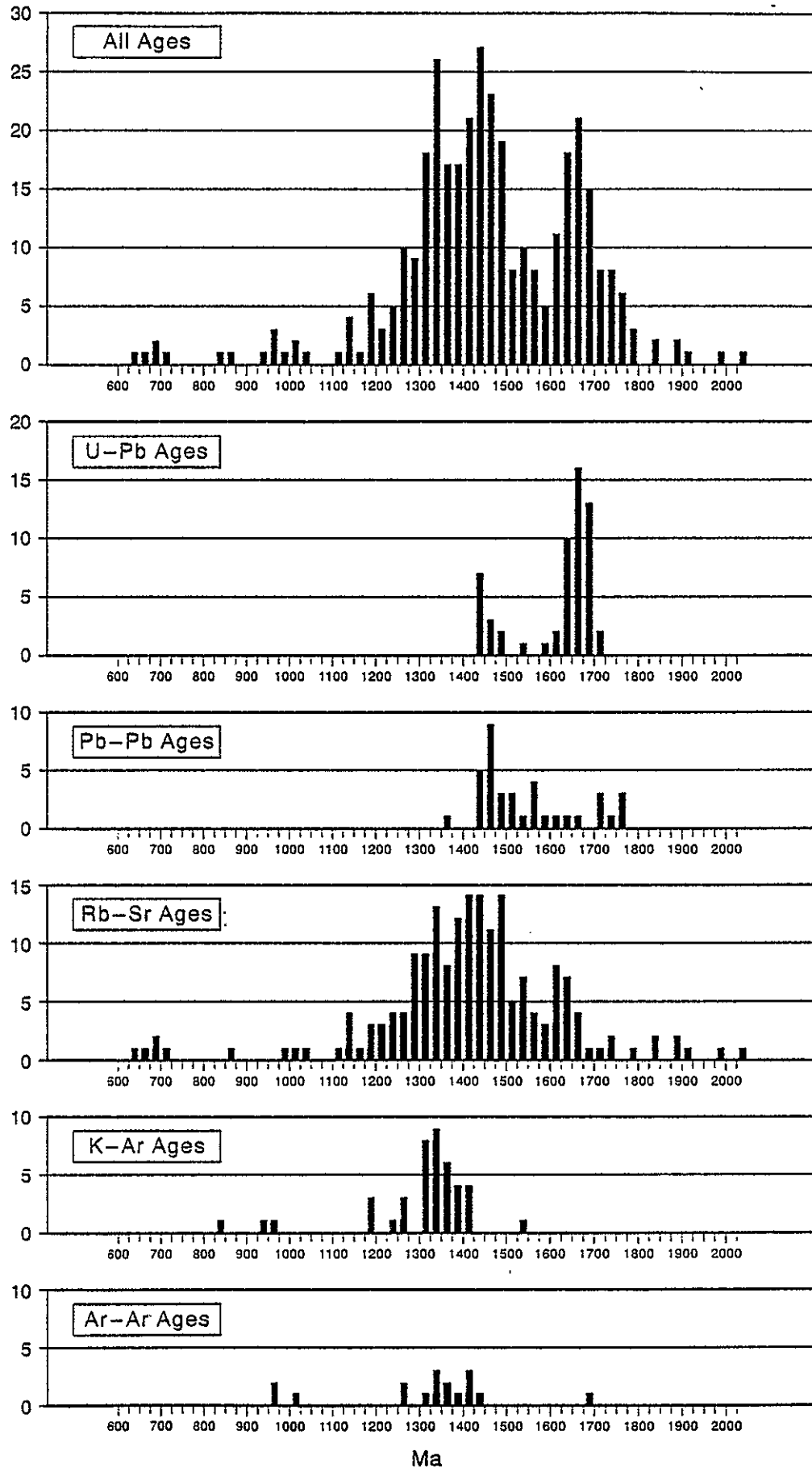
^{235}U - ^{207}Pb ages -- 1.00% reduction

$$\text{Rb-Sr } \lambda_{87} = 1.42 \times 10^{-11} \text{ yr}^{-1}$$

$$\text{K-Ar } \lambda_c = 0.581 \times 10^{-10} \text{ yr}^{-1}$$

$$\lambda_b = 4.962 \times 10^{-10} \text{ yr}^{-1}$$

Figure 2. Histograms of isotopic ages. Age determinations for all graphs have been averaged over 25 million year intervals.



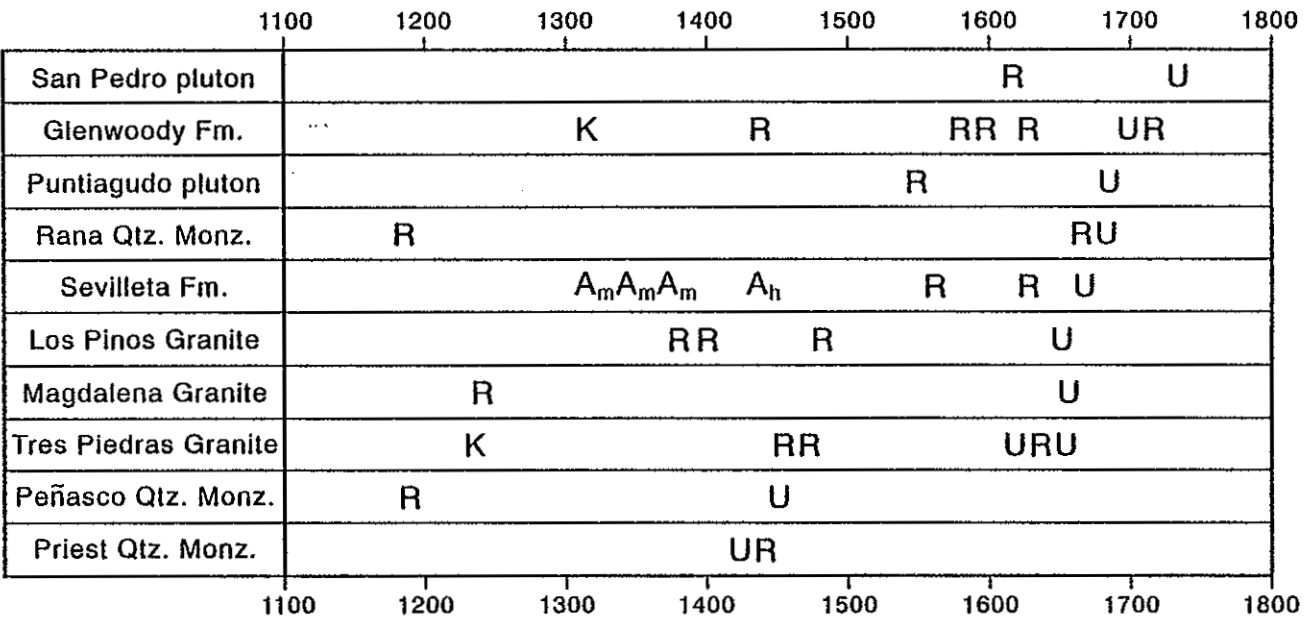


Figure 3. Graph showing isotopic ages from ten igneous rocks which have U-Pb zircon ages as well as Rb-Sr, K-Ar, and/or Ar-Ar age determinations. U-Pb zircon ages (interpreted as crystallization ages) are typically older than ages from the other systems, indicating that the Rb-Sr, K-Ar, and Ar-Ar systematics have been at least partially reset by post-crystallization thermal/tectonic events. U = U-Pb zircon age. R = Rb-Sr age. K = K-Ar age. A_m = ⁴⁰Ar-³⁹Ar muscovite age. A_h = ⁴⁰Ar-³⁹Ar hornblende age.

PART I**List of Isotopic Age Determinations By Isotopic Method****Ia. U-Pb ages**

Information on each date is displayed in the following format:

AGE AND UNCERTAINTY (**)
MOUNTAIN RANGE
NAME OF UNIT
COMMENTS:

MATERIAL DATED
ROCK TYPE
REFERENCE

RECORD #
AREA
7.5' QUAD

** = significance of age is uncertain

1427 ±		zircon		#155
Manzano Mountains		quartz monzonite	Estadio Canyon area	
Priest Quartz Monzonite		Bauer et al., 1992	Manzano Peak Quad	
COMMENTS: 3 points. A fourth point is near-concordant inherited component at >1600 Ma.				
1430 ±		monazite		#159
Cimarron Range		gt-plag gneiss	Tolby Creek area	
Eagle Nest tectonic unit		Grambling et al., 1992	Touch-Me-Not Mtn Quad	
COMMENTS: Nearly concordant. Authors interpret age as time of cooling during extension.				
1430 ±		zircon		#160
Cimarron Range		gt-plag gneiss	Tolby Creek area	
Eagle Nest tectonic unit		Grambling et al., 1992	Touch-Me-Not Mtn Quad	
COMMENTS: Nearly concordant. Authors interpret age as time of cooling during extension.				
1440 ± 10	**	zircon		#172
Zuni Mountains		granite	unknown area	
Zuni unknown unit		Silver, 1984	Quad	
COMMENTS: Location unknown. Includes foliated and unfoliated granites.				
1445 ± 15		zircon		#176
Big Burro Mountains		granite	Round Mtn area	
Burro Mtn granite		Stacey and Hedlund, 1983	Gold Hill Quad	
COMMENTS: Near Co-op mine in Gold Hill mining district. Also reported several Pb-Pb dates for various size fractions.				
1448 ±	**	zircon		#177
Picuris Mountains		quartz monzonite	Harding mine area	
Peñasco Quartz Monzonite		Bell, 1985	Trampas Quad	
COMMENTS: Age is based on one point, with lower intercept assigned at 55 Ma. Poorly constrained.				
1450 ±	**	apatite		#180
Los Pinos Mountains		amphibolite	Bootleg Canyon area	
Bootleg Canyon sequence		Shastri, 1993	Cerro Montoso Quad	
COMMENTS: Metamorphic apatite. Two fractions of apatite plot above the concordia, near 1450 Ma, and are significantly younger than the zircon and sphene ages for the same rock. Interpreted as reheating event at ca. 1450 Ma. Apatites are colorless to yellow, hexagonal or anhedral fragments generally larger than 100 mesh.				
1460 ±	**	zircon		#189
Picuris Mountains		quartz monzonite	unknown area	
Peñasco Quartz Monzonite		Silver, 1984	Trampas Quad	
COMMENTS: Location unknown.				
1460 ± 10	**	zircon		#190
Nacimiento Mountains		quartz monzonite	S. Nacimiento Mtns area	
Joaquin quartz monzonite		Silver, 1984	Gallina or Nacimiento Peak Quad	
COMMENTS: Location unknown.				
1462 ± 67		zircon		#192
San Andres Mountains		granite	Mineral Hill area	
Mineral Hill Pluton		Roths, 1991	Bennet Mountain Quad	
COMMENTS: From Little San Nicolas Canyon. Rb-Sr whole-rock age from Mineral Hill granite reported by White (1977) is 1190 ± 161 Ma.				
1480 ±		zircon		#207
S. Sangre de Cristo Mtns		granite	Macho Creek area	
Macho Creek granite		Robertson and Condie, 1989	Rosilla Peak Quad	
COMMENTS: 0.5 km E of Picuris-Pecos fault on Macho Creek.				
1500 ±	**	zircon		#221
Big Burro Mountains		diabase dike	Round Mountain area	
Burro Mtn diabase		Stacey and Hedlund, 1983	Gold Hill Quad	
COMMENTS: Very little zircon in rock. Age is highly dependent on composition of common Pb correction. Diabase cuts 1445 Ma Burro Mountain granite. Gold Hill mining district. Includes 207/206, 206/238, 207/235 ages.				
1550 ±	**	zircon		#240
Big Burro Mountains		sill-gt gneiss	Bullard Peak area	
Bullard Peak Series		Stacey and Hedlund, 1983	Redrock NE Quad	
COMMENTS: 2 fractions plot too closely together for meaningful intercepts. Includes 207/206, 206/238, 207/235 ages for 2 mesh sizes. Blackhawk mining district.				

1585 ±	**	zircon		#252
Taos Range		felsic gneiss	Urraca Ranch area	
Urraca Ranch gneiss		Lipman and Reed, 1989	Costilla Quad	
COMMENTS: On dirt road 2.8 km SE of Urraca Ranch. Lipman and Reed (1989)--"The significance of these ages is uncertain." According to S.A. Bowring (1992, personal communication) these may be metamorphic zircons. Uncertainty <10 Ma.				
1610 ±	**	zircon		#257
Florida Mountains		granitic gneiss	Capitol Dome area	
Florida gneiss		Evans and Clemons, 1988	Capitol Dome Quad	
COMMENTS: Interpreted as minimum age for emplacement. Based on 2 points. Discordant zircons.				
1621 ± 15	**	zircon		#262
Tusas Mountains		granite	various areas	
Tres Piedras Granite		Maxon, 1976a	Quad	
COMMENTS: Upper intercept age is from 7 samples from 4 different localities in Taos and Rio Arriba counties.				
1630 ±	**	zircon		#269
Picuris Mountains		metadacite	Harding mine area	
Cerro Alto Metadacite		Bell, 1985	Trampas Quad	
COMMENTS: Age is based on 1 point, with lower intercept assigned at 55 Ma. Poorly constrained age.				
1632 ± 24		zircon		#270
San Andres Mountains		quartz monzonite	Gardner Peak area	
Mayberry pluton		Roths, 1991	Gardner Peak Quad	
COMMENTS: Zircons are discordant.				
1643 ±	**	zircon		#274
Taos Range		felsic gneiss	Urraca Ranch area	
Jarosa Canyon gneiss		Lipman and Reed, 1989	Costilla Quad	
COMMENTS: In Jarosa Canyon, E of Urraca Ranch. Lipman and Reed (1989)--"The significance of these ages is uncertain." According to S.A. Bowring (1992, personal communication) these may be metamorphic zircons. Uncertainty <10 Ma.				
1644 ±		zircon		#275
Taos Range		quartz monzonite	Costilla Creek area	
Costilla Ck qtz monzonite		Bowring et al., 1984	Latir Peak Quad	
COMMENTS: Along Costilla Creek, 1.4 km NW of junction with Latir Creek. Uncertainty <10 Ma.				
1648 ± 3		zircon		#277
Lemitar Mountains		granite	S. Lemitar Mtns area	
Lemitar granite		Bowring et al., 1983	Lemitar Quad	
COMMENTS:				
1650 ± 10		zircon		#278
S. Sangre de Cristo Mtns		quartz porphyry	Dalton Canyon area	
Dalton Canyon succession		Fulp, 1982	McClure Reservoir Quad	
COMMENTS: This rock is continuous with qtz porph. reported in Renshaw (1984) at 1660 Ma in Wild Horse Canyon. Sample from W of Picuris-Pecos fault.				
1650 ±		zircon		#279
S. Sangre de Cristo Mtns		granite	Indian Creek area	
Indian Creek granite		Robertson and Condie, 1989	Rosilla Peak Quad	
COMMENTS: Small pluton exposed along the Pecos River just below confluence with Indian Creek.				
1650 ±	**	zircon		#280
S. Sangre de Cristo Mtns		granite	Indian Creek area	
Indian Creek granite?		Stacey et al., 1977	Rosilla Peak Quad	
COMMENTS: Reported as "relatively undeformed granites with ages of ~1650 m.y." Probably from area 3 mi S of Terrero.				
1650 ±	**	zircon		#281
Tusas Mountains		granite	unknown area	
Tres Piedras Granite		Silver, 1984	Quad	
COMMENTS: Type locality of Tres Piedras Granite. Exact location unknown.				
1650 ± 5	**	zircon		#282
Zuni Mountains		felsic schists	unknown area	
Zuni unknown unit		Silver, 1984	Quad	
COMMENTS: Location unknown.				

1653 ±		zircon		#283
Los Pinos Mountains		granite	Sepultura Canyon area	
Los Pinos granite		Shastri, 1993	Cerro Montoso Quad	
COMMENTS: Fractions of this sample yielded minimum ages ranging from 1630-1653 Ma. Euhedral, honey-colored to colorless zircons. Short, stubby grains with Length:Width=1.5:1.				
1654 ± 1		zircon		#285
Magdalena Mountains		granite	Jordan Canyon area	
Magdalena Granite		Bowring et al., 1983	Magdalena Quad	
COMMENTS: Granite and fine-grained border facies are undeformed; country rock (ca. 1664 Ma) is highly deformed.				
1655 ± 15	**	zircon		#287
Black Range		granophyre	Kingston mining dist.	
Pickett Springs granite		Stacey and Hedlund, 1983	Kingston Quad	
COMMENTS: Includes 2 sets of Pb/Pb and U/Pb ages as well as upper intercept age.				
1655 ±		zircon		#288
Zuni Mountains		felsic schist	unknown area	
Zuni felsic metavolcanics		Bowring and Condie, 1982	Quad	
COMMENTS:				
1655 ±		zircon		#289
Zuni Mountains		granite	unknown area	
Zuni granite		Bowring and Condie, 1982	Quad	
COMMENTS:				
1655 ± 3		zircon		#290
Los Pinos Mountains		granite	Bootleg Canyon area	
Los Pinos granite		Shastri, 1993	Cerro Montoso Quad	
COMMENTS: Euhedral, honey-colored to colorless zircon. Long, slender grains with Length:Width=2-5:1.				
1656 ±		zircon		#291
Manzano Mountains		granodiorite	Monte Largo Can area	
Monte Largo Granodiorite		Bauer et al., 1992	Capilla Peak Quad	
COMMENTS: 3 points.				
1658 ± 12		zircon		#292
Los Pinos Mountains		aplite dike	Bootleg Canyon area	
Bootleg Canyon aplite		Shastri, 1993	Cerro Montoso Quad	
COMMENTS: Dike is oriented parallel to S2, and cuts across older sheared dikes which are parallel to S1. Zircons have long, slender habit; Length:Width=5:2; typically clear and light pink. Four fractions.				
1659 ± 3		zircon		#293
Chupadera Mountains		granite	S. Chupadera area	
Chupadera granite		Bowring et al., 1983	Indian Well Wilderness Quad	
COMMENTS:				
1660 ± 10		zircon		#294
S. Sangre de Cristo Mtns		quartz porphyry	Wild Horse Can area	
Dalton Canyon succession		Renshaw, 1984	McClure Reservoir Quad	
COMMENTS: This qtz porphyry is contiguous with qtz porph. reported by Fulp (1982) at ca. 1650 Ma in Dalton Canyon area. Sample from W of Picuris-Pecos fault.				
1660 ± 2		zircon		#295
Los Pinos Mountains		amphibolite	Bootleg Canyon area	
Bootleg Canyon sequence		Shastri, 1993	Cerro Montoso Quad	
COMMENTS: Metamorphic zircon. Four populations were separated; all plot on the same regression line. Sample taken 30 m from granitic dike				
1660 ±	**	sphene		#296
Los Pinos Mountains		amphibolite	Bootleg Canyon area	
Bootleg Canyon sequence		Shastri, 1993	Cerro Montoso Quad	
COMMENTS: Metamorphic sphene. Two fractions of sphene yielded fairly discordant minimum ages. One fraction plotted on the 1660 Ma zircon regression line, the other plots as a slightly discordant minimum age of 1620 Ma. Interpreted as metamorphism at ca. 1660 Ma. Sphene is light, coke bottle green of anhedral fragments larger than 100 mesh.				

1662 ± 1 Los Pinos Mountains Sevilleta Metarhyolite Fm COMMENTS: Sample contained abundant, long, slender fragments of igneous zircon. Length/Width=3/1. Clear pink to honey color, with some inclusions. Four points.	zircon felsic schist Shastri, 1993	Montosa Draw area Cerro Montoso Quad	#297
1664 ± 3 Magdalena Mountains North Baldy metarhyolite COMMENTS:	zircon metarhyolite Bowring et al., 1983	North Baldy area Magdalena Quad	#298
1664 ± 3 Magdalena Mountains Shakespeare Can metarhyolite COMMENTS:	zircon felsic schist Bowring et al., 1983	Shakespeare Can area Magdalena Quad	#299
1674 ± 5 Picuris Mountains Rana Quartz Monzonite COMMENTS: Lower intercept at 64 ± 14 Ma.	zircon quartz monzonite Bell, 1985	Harding mine area Trampas Quad	#303
1678 ± Taos Range Jaracito Canyon granodiorite COMMENTS: Along Latir Creek, 1.4 km E of gaging station. Uncertainty <10 Ma.	zircon granodiorite Bowring et al., 1984	Urraca Ranch area Cerro Quad	#304
1680 ± Picuris Mountains Rio Pueblo Schist COMMENTS: Preliminary age. Protolith of rock is uncertain; may be felsic volcanic or plutonic.	zircon feldspathic schist Bauer, 1989, unpublished	Comales Campground Tres Ritos Quad	#305
1680 ± ** Manzano Mountains Sevilleta Metarhyolite Fm COMMENTS: Poorly constrained age. Sample taken from outcrop on road to Capilla Peak from Sevilleta metarhyolite of Reiche (1949). Approximate location.	zircon feldspathic schist Bowring et al., 1983	S. of Capilla Peak Capilla Peak Quad	#306
1684 ± 1 Picuris Mountains Puntiagudo Granite Porphyry COMMENTS: Lower intercept at 48 ± 2 Ma.	zircon granite Bell, 1985	Harding mine area Trampas Quad	#307
1689 ± Taos Range Hondo Canyon granodiorite COMMENTS: From small, unmapped granodiorite body in amphibolite along road in Hondo Canyon. May be coeval with Jaracito Canyon granodiorite (1678 Ma). Age is from S.A. Bowring, 1984, unpublished data.	zircon granodiorite Reed, 1984	Hondo Canyon area Arroyo Seco Quad	#309
1691 ± S. Sangre de Cristo Mtns Pecos Baldy quartz porphyry COMMENTS: Poorly exposed Hondo Group rocks appear to be intruded by this felsic porphyry stock.	zircon qtz-feld porphyry Grambling et al., 1988	Pecos Baldy area Truchas Peaks Quad	#310
1699 ± Taos Range Frazier Mtn qtz monzonite COMMENTS: E fork of Red River. Lipman and Reed (1989) correlated this rock with the quartz monzonite of Old Mike Peak. Uncertainty <10 Ma.	zircon quartz monzonite Bowring et al., 1984	Wheeler Peak area Wheeler Peak Quad	#312
1700 ± ** Picuris Mountains Glenwoody Formation COMMENTS: Reported as preliminary age. Exact location unknown.	zircon metarhyolite Silver, 1984	Pilar cliffs area Carson Quad	#313
1700 ± ** Picuris Mountains Rana Quartz Monzonite COMMENTS: Location unknown.	zircon quartz monzonite Silver, 1984	unknown area Trampas Quad	#314
1700 ± ** Picuris Mountains Puntiagudo Granite Porphyry COMMENTS: Location unknown.	zircon granite Silver, 1984	unknown area Trampas Quad	#315

1700 ±	**	zircon metarhyolite Silver, 1984	Burned Mountain area Cañon Plaza Quad	#316
Tusas Mountains Burned Mtn Formation COMMENTS: Exact location unknown. Barker and Friedman (1974) originally reported a 1750-1800 Ma age for Burned Mountain Formation from L. T. Silver, 1974, oral communication.				
1700 ±	**	zircon feldspathic schist Silver, 1984	Canada del Oso area Cañon Plaza Quad	#317
Tusas Mountains Burned Mtn Formation ? COMMENTS: Exact location unknown, but probably represents Vadito Group metarhyolite, perhaps Burned Mountain Formation.				
1700 ± 5	**	zircon metarhyolite, granite Silver, 1984	San Pedro Peaks area Gallina or Nacimiento Peak Quad	#318
San Pedro Mountains Zuni unknown unit COMMENTS: Location unknown. Includes granites and metarhyolites.				
1718 ± 5		zircon tonalite Robertson and Condie, 1989	Macho Creek area Rosilla Peak Quad	#322
S. Sangre de Cristo Mtns Windy Bridge tonalite COMMENTS: On Pecos River, 2 km N of mouth of Macho Creek.				
1720 ± 15		zircon quartz-eye porphyry Robertson and Condie, 1982	Jones mine area Rosilla Peak Quad	#323
S. Sangre de Cristo Mtns Jones rhyolite complex COMMENTS: Near Jones mine.				
1720 ±		zircon feldspathic schist Grambling and Bowring, unpub.	Comanche Point area Comanche Point Quad	#324
Taos Range Comanche Point feld. schist COMMENTS: Sample is from metarhyolite that sits structurally beneath crossbedded quartzite. Maybe Vadito Group equivalent? Mapped by Moench et al., 1988 as "Xgq?". Sample was processed at Washington Univ. by M. Williams and P. Bauer.				
1720 ± 5		zircon gneiss, schist, granite Silver, 1984	unknown area Quad	#326
Shiprock Shiprock xenoliths COMMENTS: Location unknown.				
1730 ± 130	**	zircon gt gneiss Roths, 1991	Goat Mountain area Bennet Mountain Quad	#329
San Andres Mountains Little San Nicolas gneiss COMMENTS: Zircons are metamict and highly discordant. Sm-Nd whole-rock of same sample has model age of 1810 Ma.				
1730 ±		zircon quartz monzonite Bowring et al., 1984	Questa area Questa Quad	#330
Taos Range Columbine Ck qtz monzonite COMMENTS: 5.2 km S16°E of Questa. Uncertainty <10 Ma.				
1730 ± 20	**	zircon quartz monzonite Woodward, 1987	unknown area Nacimiento Peak Quad	#331
San Pedro Mountains San Pedro quartz monzonite COMMENTS: Location unknown, but probably from Nacimiento Peak area.				
1741 ±		zircon metadiorite Bowring et al., 1984	Gold Hill area Red River Quad	#333
Taos Range Gold Hill metadiorite COMMENTS: Sill W of Gold Hill. Lipman and Reed (1989)--"...interpreted as the emplacement age." Uncertainty <10 Ma.				
1750 ±		zircon dioritic plutons Bowring and Condie, 1982	Wheeler Peak area Red River Quad	#334
Taos Range Red River tonalite COMMENTS: Reported as tonalite in Reed, 1984. NE of Frazier Mtn, along road to Middle Fork Lake. Uncertainty <10 Ma.				
1755 ±	**	zircon quartzite Silver, 1984	unknown area Quad	#335
Tusas Mountains Ortega Formation COMMENTS: All detrital fractions yielded ages less than 1755 Ma. Locations unknown.				

1755 ±		zircon		#336
Tusas Mountains		granodiorite	Burned Mtn area?	
Maquinita Granodiorite		Silver, 1984	Quad	
COMMENTS: Location unknown. Intrusive into Moppin Complex.				
1765 ±		zircon		#338
Taos Range		felsic metavolcanics	Gold Hill area	
Gold Hill Complex		Bowring, 1992, pers. commun.	Red River Quad	
COMMENTS: NE of Gold Hill. Called "layered gneiss sequence" in Reed (1984). In Bowring et al. (1984) and Reed (1984) this rock was reported to have a preliminary age of 1750 Ma. Uncertainty less than 10 Ma.				
1780 ±	**	zircon		#341
Picuris Mountains		quartzite	Pilar cliffs area	
Ortega Formation		Silver, 1984	Carson Quad	
COMMENTS: Exact location unknown. Reported ages between 1780-1750 Ma for detrital zircon populations.				
1793 ± 21	**	zircon		#342
Picuris Mountains		quartzite	Pilar area	
Ortega Formation		Maxon, 1876	Carson Quad	
COMMENTS: Upper intercept age is from 4 detrital samples from 2 localities. Also reports 207/206, 207/235, 206/238 ages for each of 4 samples.				

Ib. ^{207}Pb - ^{206}Pb model ages

Information on each date is displayed in the following format:

AGE AND UNCERTAINTY (**)
 MOUNTAIN RANGE
 NAME OF UNIT
 ^{206}Pb - ^{238}Pb AGE
 COMMENTS:

MATERIAL DATED
 ROCK TYPE
 REFERENCE
 ^{207}Pb - ^{235}Pb AGE

RECORD #
 AREA
 7.5' QUAD
 ^{208}Pb - ^{232}Pb AGE

** = significance of age is uncertain

1375 ±	**	zircon		#115
Kilbourne Hole		gt granulite xenolith	Kilbourne Hole area	
Kilbourne Hole xenolith		Davis and Grew, 1978	Kilbourne Hole Quad	
Pb206toU238: 360		Pb207toU235: 536	Pb208toU232:	
COMMENTS: Interpreted as minimum value for time of metamorphism. Zircons are rounded, unzoned, and highly discordant.				
1430 ± 20	**	zircon		#158
Sandia Mountains		quartz monzonite	S. Sandia Mtns area	
Sandia Granite		Steiger and Wasserburg, 1966	Tijeras Quad	
Pb206toU238: 1088		Pb207toU235: 1203	Pb208toU232:	
COMMENTS: -120 +150 mesh				
1437 ±	**	zircon		#162
Big Burro Mountains		granite	Round Mtn area	
Burro Mtn granite		Stacey and Hedlund, 1983	Gold Hill Quad	
Pb206toU238: 1310		Pb207toU235: 1358	Pb208toU232:	
COMMENTS: Near Co-op mine in Gold Hill mining district. Mesh -250.				
1437 ±	**	zircon		#163
Big Burro Mountains		granite	Round Mtn area	
Burro Mtn granite		Stacey and Hedlund, 1983	Gold Hill Quad	
Pb206toU238: 1238		Pb207toU235: 1312	Pb208toU232:	
COMMENTS: Near Co-op mine in Gold Hill mining district. Mesh -50 +100.				
1444 ±	**	zircon		#175
Big Burro Mountains		granite	Round Mtn area	
Burro Mtn granite		Stacey and Hedlund, 1983	Gold Hill Quad	
Pb206toU238: 1320		Pb207toU235: 1367	Pb208toU232:	
COMMENTS: Near Co-op mine in Gold Hill mining district. Mesh -100 +150.				
1449 ±	**	zircon		#178
Tusas Mountains		granite	Tusas Mountain area	
Tusas Mtn granite		Wobus and Hedge, 1982	Burned Mountain Quad	
Pb206toU238:		Pb207toU235:	Pb208toU232:	
COMMENTS: Unabraded zircon. Abraded zircons give age of 1421 Ma. summit. From adit 250 m S of Tusas Mtn				
1455 ± 20	**	zircon		#182
Sandia Mountains		quartz monzonite	S. Sandia Mtns area	
Sandia Granite		Steiger and Wasserburg, 1966	Tijeras Quad	
Pb206toU238: 1157		Pb207toU235: 1262	Pb208toU232: 1125	
COMMENTS: -150 +230 mesh.				
1455 ± 20	**	zircon		#183
Sandia Mountains		quartz monzonite	S. Sandia Mtns area	
Sandia Granite		Steiger and Wasserburg, 1966	Tijeras Quad	
Pb206toU238: 1118		Pb207toU235: 1238	Pb208toU232: 1065	
COMMENTS: -230 mesh.				
1460 ± 20	**	zircon		#187
Sandia Mountains		quartz monzonite	S. Sandia Mtns area	
Sandia Granite		Steiger and Wasserburg, 1966	Tijeras Quad	
Pb206toU238: 925		Pb207toU235: 1094	Pb208toU232: 865	
COMMENTS: +325 mesh, magnetic.				
1460 ± 20	**	zircon		#188
Sandia Mountains		quartz monzonite	S. Sandia Mtns area	
Sandia Granite		Steiger and Wasserburg, 1966	Tijeras Quad	
Pb206toU238: 1098		Pb207toU235: 1247	Pb208toU232:	
COMMENTS: -150 +200 mesh.				
1465 ± 30	**	zircon		#194
Jemez Mountains		granodiorite	Fenton Hill area	
GT-2 granodiorite		Zartman, 1979	Seven Springs Quad	
Pb206toU238: 1159		Pb207toU235: 1271	Pb208toU232: 1159	
COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of Pb (initial) assumed to be that of microcline corrected for 1.5 Ga in situ decay.				

1470 ± ** Sandia Mountains Sandia Granite Pb206toU238: 1444 COMMENTS: +325 mesh, magnetic.	sphene granite Tilton and Grunenfelder, 1968 Pb207toU235: 1447	S. Sandia Mtns area Tijeras Quad Pb208toU232:	#198
1470 ± 20 ** Sandia Mountains Sandia Granite Pb206toU238: 1276 COMMENTS: + 325 mesh, nonmagnetic.	zircon quartz monzonite Steiger and Wasserburg, 1966 Pb207toU235: 1346	S. Sandia Mtns area Tijeras Quad Pb208toU232: 1295	#199
1470 ± 20 Sandia Mountains Sandia Granite Pb206toU238: 1276 COMMENTS: + 325 mesh, nonmagnetic.	zircon quartz monzonite Steiger and Wasserburg, 1966 Pb207toU235: 1346	S. Sandia Mtns area Tijeras Quad Pb208toU232: 1295	#200
1475 ± ** Sandia Mountains Sandia Granite Pb206toU238: 1107 COMMENTS: Data from Tilton et al., 1962. Same sample (A-26) as Aldrich et al., 1958. Zircons are clear, hyacinth, euhedral, zoned, dark inclusions, some cores, length/breadth = 2.5. Location unknown.	zircon granite Brookins, 1974c Pb207toU235: 1238	unknown area Quad Pb208toU232: 1290	#203
1480 ± ** Sandia Mountains Sandia Granite Pb206toU238: 1434 COMMENTS: +325 mesh, nonmagnetic.	sphene granite Tilton and Grunenfelder, 1968 Pb207toU235: 1441	S. Sandia Mtns area Tijeras Quad Pb208toU232:	#208
1490 ± ** Sandia Mountains Sandia Granite Pb206toU238: 1424 COMMENTS: Data from Tilton and Grunenfelder (1968) and Aldrich et al. (1958). Sample from lower part of Sandia escarpment NE of Albuquerque.	sphene granite Brookins, 1974c Pb207toU235: 1445	NE of Albuquerque Quad Pb208toU232:	#214
1500 ± 25 ** Jemez Mountains GT-2 granodiorite Pb206toU238: 1456 COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of Pb (initial) assumed to be that of microcline corrected for 1.5 Ga in situ decay.	sphene granodiorite Zartman, 1979 Pb207toU235: 1474	Fenton Hill area Seven Springs Quad Pb208toU232: 1474	#222
1505 ± ** Big Burro Mountains Burro Mtn diabase Pb206toU238: 1294 COMMENTS: All mesh sizes.	zircon diabase dike Stacey and Hedlund, 1983 Pb207toU235: 1376	Round Mountain area Gold Hill Quad Pb208toU232:	#225
1518 ± 210 ** Jemez Mountains GT-2 granodiorite Pb206toU238: 1214 COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of initial Pb assumed to be that of microcline corrected for 1.5 Ga in situ decay.	epidote granodiorite Zartman, 1979 Pb207toU235: 1329	Fenton Hill area Seven Springs Quad Pb208toU232: 596	#228
1520 ± 210 ** Jemez Mountains GT-2 granodiorite Pb206toU238: 1255 COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of initial Pb assumed to be that of microcline corrected for 1.5 Ga in situ decay.	epidote granodiorite Zartman, 1979 Pb207toU235: 1357	Fenton Hill area Seven Springs Quad Pb208toU232: 607	#230
1542 ± ** Big Burro Mountains Bullard Peak Series Pb206toU238: 1178 COMMENTS: -400 mesh. Blackhawk mining district.	zircon sill-gt gneiss Stacey and Hedlund, 1983 Pb207toU235: 1314	Bullard Peak area Redrock NE Quad Pb208toU232:	#235

1554 ±	**	zircon		#241
Florida Mountains		granitic gneiss	Capitol Dome area	
Florida gneiss		Evans and Clemons, 1988	Capitol Dome Quad	
Pb206toU238: 1127		Pb207toU235: 1283	Pb208toU232: 1144	
COMMENTS: Interpreted as minimum age for emplacement. Mesh -100 +150.				
1556 ±	**	zircon		#242
Florida Mountains		granitic gneiss	Capitol Dome area	
Florida gneiss		Evans and Clemons, 1988	Capitol Dome Quad	
Pb206toU238: 1027		Pb207toU235: 1211	Pb208toU232:	
COMMENTS: Interpreted as minimum age for emplacement. Mesh -250 +325.				
1567 ±	**	zircon		#245
Big Burro Mountains		sill-gt gneiss	Bullard Peak area	
Bullard Peak Series		Stacey and Hedlund, 1983	Redrock NE Quad	
Pb206toU238: 1217		Pb207toU235: 1350	Pb208toU232:	
COMMENTS: -250 +200 mesh. Blackhawk mining district.				
1570 ±	**	zircon		#248
Florida Mountains		granitic gneiss	Capitol Dome area	
Florida gneiss		Evans and Clemons, 1988	Capitol Dome Quad	
Pb206toU238: 1128		Pb207toU235: 1289	Pb208toU232: 1172	
COMMENTS: Interpreted as minimum age for emplacement. Mesh -150 +200.				
1583 ± 220	**	epidote		#250
Jemez Mountains		granodiorite	Fenton Hill area	
GT-2 granodiorite		Zartman, 1979	Seven Springs Quad	
Pb206toU238: 1326		Pb207toU235: 1428	Pb208toU232: 724	
COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of initial Pb assumed to be that of microcline corrected for 1.5 Ga in situ decay.				
1608 ±	**	zircon		#256
Black Range		granophyre	Kingston mining dist.	
Pickett Springs granite		Stacey and Hedlund, 1983	Kingston Quad	
Pb206toU238: 954		Pb207toU235: 1175	Pb208toU232:	
COMMENTS: +250 mesh.				
1647 ±	**	zircon		#276
Black Range		granophyre	Kingston mining dist.	
Pickett Springs granite		Stacey and Hedlund, 1983	Kingston Quad	
Pb206toU238: 1468		Pb207toU235: 1554	Pb208toU232:	
COMMENTS: -250 + 325 mesh.				
1668 ±	**	zircon		#301
Picuris Mountains		quartzite	Pilar area	
Ortega Formation		Maxon, 1976	Carson Quad	
Pb206toU238: 1167		Pb207toU235: 1363	Pb208toU232:	
COMMENTS: Detrital zircon populations.				
1710 ±	**	galena		#320
S. Sangre de Cristo Mtns		felsic schist	Pecos mine area	
Pecos mine orebody		Stacey et al., 1977	Cowles Quad	
Pb206toU238:		Pb207toU235:	Pb208toU232:	
COMMENTS: Isochron model ages are computed from the model of Stacey and Kramers (1975). This rock was called "Terrero" by Stacey et al., 1977.				
1713 ±	**	zircon		#321
Taos Range		quartzite	San Cristobal Can area	
San Cristobal quartzite		Aleinikoff et al., 1985	Arroyo Seco Quad	
Pb206toU238:		Pb207toU235:	Pb208toU232:	
COMMENTS: Detrital zircon population #2. Light pink and euhedral. Interpretation = age of volcanoclastic input during sedimentation.				
1720 ±	**	galena		#325
S. Sangre de Cristo Mtns		felsic metavolcanic	Tres Lagunas area	
Tres Lagunas metavolcanics		Stacey et al., 1977	Rosilla Peak Quad	
Pb206toU238:		Pb207toU235:	Pb208toU232:	
COMMENTS: Isochron model ages are computed from the model of Stacey and Kramers (1975). Called "Jones" by Stacey et al.; may be part of Jones rhyolite complex.				

1727 ±	**	zircon quartzite Maxon, 1976 Pb207toU235: 1437	Pilar area Carson Quad Pb208toU232:	#327
Picuris Mountains Ortega Formation Pb206toU238: 1240 COMMENTS: Detrital zircon populations.				
1765 ±	**	zircon quartzite Maxon, 1976 Pb207toU235: 1552	Pilar area Carson Quad Pb208toU232:	#337
Picuris Mountains Ortega Formation Pb206toU238: 1389 COMMENTS: Detrital zircon populations.				
1769 ±	**	zircon quartzite Maxon, 1976 Pb207toU235: 1585	Pilar area Carson Quad Pb208toU232:	#339
Picuris Mountains Ortega Formation Pb206toU238: 1438 COMMENTS: Detrital zircon populations.				
1775 ±	**	zircon quartzite Aleinikoff et al., 1985 Pb207toU235:	San Cristobal Can area Arroyo Seco Quad Pb208toU232:	#340
Taos Range San Cristobal quartzite Pb206toU238: COMMENTS: Detrital zircon population #1. Dark pink and round. Interpretation = age of source terrane for quartzose sediments.				

Ic. Rb-Sr ages

Information on each date is displayed in the following format:

AGE AND UNCERTAINTY (**)
MOUNTAIN RANGE
NAME OF UNIT
TYPE OF AGE
COMMENTS:

MATERIAL DATED
ROCK TYPE
REFERENCE
INITIAL RATIO

RECORD #
AREA
7.5' QUAD

** = significance of age is uncertain

626 ± ** Florida Mountains South Peak alkali granite model COMMENTS:	whole-rock quartz syenite Brookins, 1974b 0.70500 ±	South Peak area South Peak Quad	# 1
670 ± ** Taos Range Comanche Point gabbro isochron COMMENTS: Preliminary isochron. Rock is altered. Near confluence of Costilla and Latir creeks.	whole-rock gabbro Lipman and Reed, 1989	Comanche Point area Latir Peak Quad	# 2
685 ± ** Florida Mountains South Peak alkali granite model COMMENTS:	whole-rock alkali granite Brookins, 1974b 0.70500 ±	South Peak area South Peak Quad	# 3
685 ± ** Florida Mountains South Peak alkali granite model COMMENTS:	whole-rock alkali granite Brookins, 1974b 0.70500 ±	South Peak area South Peak Quad	# 4
718 ± ** Picuris Mountains Harding Pegmatite isochron COMMENTS: High scatter of data.	microcline pegmatite Brookins et al., 1979 5.35600 ±	Harding mine area Trampas Quad	# 5
852 ± ** Florida Mountains South Peak alkali granite model COMMENTS:	whole-rock alkali granite Brookins, 1974b 0.70500 ±	South Peak area South Peak Quad	# 7
986 ± 29 ** Ladron Mountains Capirote Granite isochron COMMENTS: Isochron of 2 samples.	whole-rock quartz monzonite White, 1977 0.71240 ± 0.01580	W of Ladron Peak Ladron Peak Quad	# 12
1013 ± 242 ** San Andres/Oscura Mtns Mockingbird Gap pluton isochron COMMENTS: Isochron of 5 samples.	whole-rock quartz monzonite White, 1977 0.71540 ± 0.00930	Mockingbird Gap area Quad	# 14
1038 ± ** Florida Mountains South Peak alkali granite model COMMENTS:	whole-rock alkali granite Brookins, 1974b 0.70500 ±	South Peak area South Peak Quad	# 15
1121 ± 6 ** Picuris Mountains Harding Pegmatite isochron COMMENTS:	perthite pegmatite perthite zone Brookins et al., 1979 3.64920 ± 0.00497	Harding mine area Trampas Quad	# 16
1128 ± 44 ** Sandia Mountains Sandia Granite model COMMENTS: Biotite is partially chloritized.	biotite orbicular granite Brookins et al., 1975 0.70300 ±	Sandia Crest area Sandia Crest Quad	# 17
1139 ± ** Tucumcari basin Husky-General No. 1 granite COMMENTS:	whole-rock granite Muehlberger et al., 1966	E of Santa Rosa Harben Lake Quad	# 18

1139 ±	**	biotite Delaware basin Continental No. 1-E gneiss	granitic gneiss Muehlberger et al., 1966	Eunice area Eunice Quad	# 19
COMMENTS:					
1143 ± 56	**	Ladron Mountains Ladron metavolcanic sequence isochron	whole-rock felsic schist & amphibolite White, 1977 0.71070 ± 0.00240	Ladron Peak area Ladron Peak Quad	# 20
COMMENTS: Isochron of 8 samples.					
1175 ± 15	**	Pajarito Mountain Pajarito granite	feldspar riebeckite granite Denison and Hetherington, 1969	Pajarito Peak area Pajarito Mountain Quad	# 21
COMMENTS:					
1183 ± 62	**	Picuris Mountains Rana Quartz Monzonite isochron	bi-feld-w.r. granite Fullager and Shiver, 1973 0.71880 ± 0.00350	Cañoncito area Trampas Quad	# 23
COMMENTS:					
1185 ±	**	S. Sangre de Cristo Mtns Embudo granite model	whole-rock granite Brookins et al., 1985 0.71000 ±	Cordova area Truchas Quad	# 24
COMMENTS:					
1186 ± 23	**	Picuris Mountains Peñasco Quartz Monzonite isochron	bi-feld-w.r. granite Fullager and Shiver, 1973 0.70620 ± 0.00070	Rio Lucio area Peñasco Quad	# 25
COMMENTS: Isochron of mineral separates and whole-rock.					
1201 ±	**	Delaware basin Socony Mobil No. 95 granite	K-feldspar granite porphyry Muehlberger et al., 1966	Buckeye area Buckeye Quad	# 28
COMMENTS:					
1211 ±	**	Delaware basin Stanolind No. 11-X granite	whole-rock granite Muehlberger et al., 1966	Hobbs area Hobbs West Quad	# 29
COMMENTS:					
1214 ±	**	Florida Mountains South Peak alkali granite model	whole-rock alkali granite Brookins, 1974b 0.70500 ±	South Peak area South Peak Quad	# 30
COMMENTS:					
1230 ± 130	**	S. Sangre de Cristo Mtns Rinconada Formation min isochron	min. separates pelitic schist Ward, 1990 0.71000 ± 0.22000	Pecos Baldy area Truchas Peak Quad	# 31
COMMENTS:					
1243 ± 170	**	San Andres Mountains Mayberry Pluton isochron	whole-rock quartz monzonite White, 1977 0.75120 ± 0.01780	Mayberry Canyon area Gardner Peak Quad	# 33
COMMENTS: Isochron of 6 samples.					
1246 ± 40	**	Picuris Mountains Harding Pegmatite isochron	lepidolite pegmatite Brookins et al., 1979	Harding mine area Trampas Quad	# 34
COMMENTS:					

1247 ± 62	**	whole-rock granite	Jordan Canyon area Magdalena Quad	# 35
Magdalena Mountains Magdalena Granite isochron 0.71600 ± 0.00760 COMMENTS: Isochron of 6 samples.				
1253 ± 28	**	whole-rock pelitic schist	Pecos Baldy area Truchas Peak Quad	# 36
S. Sangre de Cristo Mtns Rinconada Formation isochron 0.71500 ± 0.01800 COMMENTS:				
1264 ± 128	**	rose muscovite pegmatite	Harding mine area Trampas Quad	# 38
Picuris Mountains Harding Pegmatite isochron COMMENTS:				
1270 ±	**	biotite gneissic granite & granite	Langford Mtns area C Bar Ranch Quad	# 41
Big Burro Mountains Burro Mtn granite Hedlund, 1978 COMMENTS:				
1273 ±	**	whole-rock muscovite schist	Dexter area Dexter East Quad	# 44
Pecos slope Continental No. 1 Langford schist Muehlberger et al., 1966 COMMENTS:				
1281 ±	**	whole-rock pegmatite spotted rock	Harding mine area Trampas Quad	# 46
Picuris Mountains Harding Pegmatite model Bailestri and Brookins, 1985 0.71000 ± COMMENTS: Samples were collected and analyzed in late 1970s.				
1286 ± 9	**	min. separates feldspar-musc schist	Rio Mora area Pecos Falls Quad	# 47
S. Sangre de Cristo Mtns Pecos Complex isochron 0.71416 ± 0.00042 COMMENTS: Isochron of several mineral separates.				
1286 ±	**	whole-rock pegmatite spotted rock	Harding mine area Trampas Quad	# 48
Picuris Mountains Harding Pegmatite model Bailestri and Brookins, 1985 0.71000 ± COMMENTS: Samples were collected and analyzed in late 1970s.				
1291 ± 51	**	whole-rock granite	North of Ladron Peak Ladron Peak Quad	# 49
Ladron Mountains Ladron Granite isochron 0.71010 ± 0.00370 COMMENTS: Isochron of 7 samples.				
1292 ±	**	whole-rock alkali granite	South Peak area South Peak Quad	# 50
Florida Mountains South Peak alkali granite model Brookins, 1974b 0.70500 ± COMMENTS:				
1294 ± 161	**	whole-rock quartz monzonite	Mineral Hill area White Sands, Organ Quad	# 51
San Andres Mountains Mineral Hill Pluton isochron White, 1977 0.69400 ± 0.02390 COMMENTS: Isochron of 5 samples.				
1295 ±	**	muscovite pegmatite border zone	Harding mine area Trampas Quad	# 52
Picuris Mountains Harding Pegmatite model Bailestri and Brookins, 1985 0.71000 ± COMMENTS: Samples were collected and analyzed in late 1970s.				

1300 ±	**	bi, whole-rock quartz monzonite	# 53
Sandia Mountains		Brookins and Majumdar, 1982	Carnue area
Sandia Granite			Tijeras Quad
isochron			
COMMENTS: Two-point mineral -- whole-rock isochron.			
1300 ±	**	mica pegmatite	# 54
Picuris Mountains		Aldrich et al., 1957	Harding mine area
Harding Pegmatite			Taos Quad
COMMENTS:			
1304 ±	**	whole-rock pegmatite spotted rock	# 55
Picuris Mountains		Balestri and Brookins, 1985	Harding mine area
Harding Pegmatite			Trampas Quad
model		0.71000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1304 ±	**	whole-rock gneissic granite	# 56
Caballo Mountains		Muehlberger et al., 1966	Caballo dam area
Caballo Granite			Caballo Quad
COMMENTS: Location is approximate.			
1310 ±	**	bi, whole-rock quartz monzonite	# 60
Sandia Mountains		Brookins and Majumdar, 1982	Carnue area
Sandia Granite			Tijeras Quad
isochron			
COMMENTS: Two-point mineral -- whole-rock isochron.			
1310 ± 260	**	whole-rock feld-musc schist	# 61
S. Sangre de Cristo Mtns		Ward, 1990	Rio Mora area
Pecos Complex			Pecos Falls Quad
isochron		0.71360 ± 0.00890	
COMMENTS:			
1314 ±	**	biotite granite	# 62
Sierra Grande arch		Muehlberger et al., 1966	Des Moines area
Sierra Grande No. 1 granite			Des Moines Quad
COMMENTS:			
1319 ± 42	**	whole-rock quartz-musc schist	# 65
S. Sangre de Cristo Mtns		Ward, 1990	Truchas Peak area
Vadito Group			Truchas Peak Quad
isochron		0.75900 ± 0.01800	
COMMENTS:			
1320 ±	**	bi, whole-rock quartz monzonite	# 68
Sandia Mountains		Brookins and Majumdar, 1982	Carnue area
Sandia Granite			Tijeras Quad
isochron			
COMMENTS: Two-point mineral -- whole-rock isochron.			
1324 ±	**	muscovite pegmatite	# 71
Picuris Mountains		Balestri and Brookins, 1985	Harding mine area
Harding Pegmatite			Trampas Quad
model		0.71000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1325 ± 76	**	whole-rock quartz monzonite	# 72
San Andres Mountains		White, 1977	N San Andres Mtns
Capitol Peak Pluton			Quad
isochron		0.69690 ± 0.00350	
COMMENTS: Isochron of 7 samples, widely spaced. From Sheep Mountain, Capitol Peak, Tip Top Canyon, and Strawberry Peak quads.			
1327 ± 136	**	whole-rock granite	# 75
Magdalena Mountains		White, 1978	Jordan Canyon area
Magdalena Granite			Magdalena Quad
isochron		0.73800 ± 0.02020	
COMMENTS: Isochron of 4 samples.			

1329 ±	**	lepidolite	# 77
Picuris Mountains		pegmatite replacement micas	Harding mine area
Harding Pegmatite model		Balestri and Brookins, 1985	Trampas Quad
COMMENTS: Samples were collected and analyzed in late 1970s.		0.71000 ±	
1330 ±	**	bi, whole-rock	# 78
Sandia Mountains		quartz monzonite	Cañon del Agua area
Sandia Granite isochron		Brookins and Majumdar, 1982	Placitas Quad
COMMENTS: Two-point mineral -- whole-rock isochron.			
1330 ±	**	bi, whole-rock	# 79
Sandia Mountains		quartz monzonite	Cañon del Agua area
Sandia Granite isochron		Brookins and Majumdar, 1982	Placitas Quad
COMMENTS: Two-point mineral -- whole-rock isochron.			
1332 ±	**	whole-rock	# 80
Picuris Mountains		pegmatite spotted rock	Harding mine area
Harding Pegmatite model		Balestri and Brookins, 1985	Trampas Quad
COMMENTS: Samples were collected and analyzed in late 1970s.		0.71000 ±	
1336 ± 73	**	whole-rock	# 82
Picuris Mountains		pegmatite spotted rock	Harding mine area
Harding Pegmatite isochron		Brookins et al., 1979	Trampas Quad
COMMENTS: Isochron of 4 samples.			
1338 ± 26	**	whole-rock	# 83
Oscura Mountains		biotite granite	various areas
Oscura Pluton Quad isochron		White, 1978	Trinity site, Mockingbird Gap SE
COMMENTS: Isochron of 8 samples.		0.70600 ± 0.00160	
1340 ±	**	bi, whole-rock	# 86
Sandia Mountains		quartz monzonite	Cañon del Agua area
Sandia Granite isochron		Brookins and Majumdar, 1982	Placitas Quad
COMMENTS: Two-point mineral -- whole-rock isochron.			
1340 ±	**	bi, whole-rock	# 87
Sandia Mountains		quartz monzonite	Embudito Canyon area
Sandia Granite isochron		Brookins and Majumdar, 1982	Sandia Crest Quad
COMMENTS: Two-point mineral -- whole-rock isochron.			
1340 ±	**	mica granite	# 88
Sandia Mountains		granite	3 mi N of Placitas
Sandia Granite		Aldrich et al., 1957	Placitas Quad
COMMENTS:			
1346 ±	**	whole-rock granite	# 93
Oscura Mountains		granite	S. Oscura Mountains
Mockingbird Gap pluton		Muehlberger et al., 1966	Mockingbird Gap SE Quad
COMMENTS:			
1348 ±	**	whole-rock	# 94
Picuris Mountains		pegmatite spotted rock	Harding mine area
Harding Pegmatite model		Balestri and Brookins, 1985	Trampas Quad
COMMENTS: Samples were collected and analyzed in late 1970s.		0.71000 ±	

1350 ± 104	**	whole-rock granite	# 96
Los Pinos Mountains		Brookins et al., 1980	Bootleg Canyon area
Sepultura granite			Cerro Montoso Quad
isochron			
COMMENTS: Isochron of 6 samples. Data are from Bolton, 1976. Shastri (1993) has shown that this is same pluton as Los Pinos granite, and recommends abandonment of the name Sepultura.			
1352 ± 24	**	min. separates	# 99
S. Sangre de Cristo Mtns		quartz-musc schist	Truchas Peak area
Vadito Group		Ward, 1990	Truchas Peak Quad
min isochron		0.75800 ± 0.01400	
COMMENTS:			
1353 ±	**	lepidolite	# 100
Picuris Mountains		pegmatite replacement micas	Harding mine area
Harding Pegmatite		Balestri and Brookins, 1985	Trampas Quad
model		0.71000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1356 ± 20	**	biotite	# 101
Delaware basin		biotite granite	Carlsbad area
Humble No. 1 Huapache granite		Denison and Hetherington, 1969	Red Bluff Draw Quad
COMMENTS:			
1362 ±	**	mica	# 106
Picuris Mountains		pegmatite replacement micas	Harding mine area
Harding Pegmatite		Balestri and Brookins, 1985	Trampas Quad
model		0.71000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1364 ± 27	**	whole-rock	# 107
Pedernal Hills		quartzite and schist	Pedernal Mtn area
Pedernal metasediments		Mukhopadhyay et al., 1975	Pedernal Mountain Quad
isochron		0.70460 ± 0.00190	
COMMENTS: Isochron of 4 quartzite and 6 schist samples. Location unknown.			
1365 ±	**	whole-rock	# 108
S. Sangre de Cristo Mtns		granite	Cordova area
Embudo granite		Brookins et al., 1985	Truchas Quad
model		0.71000 ±	
COMMENTS:			
1366 ±	**	cleavelandite	# 109
Picuris Mountains		pegmatite cleavelandite-qtz	Harding mine area
Harding Pegmatite		Balestri and Brookins, 1985	Trampas Quad
model		0.90000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1372 ±	**	whole-rock	# 114
S. Sangre de Cristo Mtns		granite	Nambe Falls area
Embudo granite		Brookins et al., 1985	Tesuque Quad
model		0.71000 ±	
COMMENTS:			
1380 ± 29	**	whole-rock	# 116
Los Pinos Mountains		granite	Whiteface Mtn area
Los Pinos granite		Bolton, 1976	Becker and Cerro Montoso Quad
isochron		0.72670 ± 0.00800	
COMMENTS: Isochron of 6 samples.			
1380 ±	**	whole-rock	# 117
Sandia Mountains		granite	Carnue area
Sandia Granite		Brookins, 1974c	Tijeras Quad
isochron			
COMMENTS: Original dating by Wasserburg et al., 1965.			
1380 ± 30	**	whole-rock	# 118
Zuni Mountains		metarhyolite	Post Office Flat area
Post Office Flat metarhyolite		Brookins et al., 1978	Post Office Flat Quad
isochron		0.72100 ± 0.00900	
COMMENTS: Isochron of 5 samples. Approximate location.			

1382 ±	**	mica	# 120
Picuris Mountains		pegmatite replacement mica	Harding mine area
Harding Pegmatite		Balestri and Brookins, 1985	Trampas Quad
model		0.71000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1384 ± 86	**	whole-rock	# 121
S. Sangre de Cristo Mtns		bi-plag schist	Rio Mora area
Pecos Complex		Ward, 1990	Pecos Falls Quad
isochron		0.70379 ± 0.00056	
COMMENTS: Samples are from 2-3 m of ductile thrust fault that marks Pecos Complex-Hondo Group contact.			
1387 ±	**	K-feldspar	# 123
Pecos slope		granite	Bitter Lake area
De Kalb No. 1 Lewis granite		Muehlberger et al., 1966	Comanche Spring Quad
COMMENTS:			
1396 ± 172	**	cleavelandite	# 127
Picuris Mountains		pegmatite cleavelandite-qtz	Harding mine area
Harding Pegmatite		Brookins et al., 1979	Trampas Quad
isochron		0.90100 ±	
COMMENTS: Isochron of 6 samples.			
1397 ±	**	whole-rock	# 128
Delaware basin		granite porphyry	Buckeye area
Socony Mobil No. 95 granite		Muehlberger et al., 1966	Buckeye Quad
COMMENTS:			
1397 ±	**	K-feldspar	# 129
Sierra Grande arch		granite	Mogote Hills area
Shamrock No. 1 McArthur granite		Muehlberger et al., 1966	Mogote Hills Quad
COMMENTS:			
1397 ± 30	**	feldspar	# 130
Delaware basin		biotite granite	Carlsbad area
Humble No. 1 Huapache granite		Denison and Hetherington, 1969	Red Bluff Draw Quad
COMMENTS:			
1400 ± 59	**	whole-rock	# 131
Los Pinos Mountains		granite	Bootleg Canyon area
Sepultura granite		Bolton, 1976	Cerro Montoso Quad
isochron			
COMMENTS: Isochron of 6 samples. Shastri (1993) has shown that this pluton is the same as the Los Pinos granite, and recommends abandonment of the term Sepultura.			
1400 ±	**	whole-rock	# 132
Picuris Mountains		quartz monzonite	Rio Lucio area
Peñasco Quartz Monzonite		Long, 1974	Peñasco, El Valle Quad
isochron			
COMMENTS: Data reinterpreted from Fullager and Shiver (1973). Isochron of 3 samples.			
1406 ±	**	cleavelandite	# 135
Picuris Mountains		pegmatite cleavelandite-qtz	Harding mine area
Harding Pegmatite		Balestri and Brookins, 1985	Trampas Quad
model		0.90000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1406 ±	**	cleavelandite	# 136
Picuris Mountains		pegmatite cleavelandite-qtz	Harding mine area
Harding Pegmatite		Balestri and Brookins, 1985	Trampas Quad
model		0.90000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1407 ± 19	**	whole-rock	# 137
Sandia Mountains		pegmatite and aplite	Juan Tabo area
Juan Tabo pegmatites		Brookins and Majumdar, 1989	Sandía Crest Quad
isochron		0.71300 ± 0.00100	
COMMENTS: 3 pegmatites and one aplite from deformed dikes cuttings across Juan Tabo Series.			

1407 ±	**	whole-rock Picuris Mountains Glenwoody Fm pegmatite model	pegmatite Brookins et al., 1985 0.71000 ±	Pilar area Carson Quad	# 138
COMMENTS: Pegmatite at Ortega Fm-Glenwoody Fm contact.					
1407 ±	**	whole-rock San Diego Mountain San Diego Mtn gneiss	dioritic gneiss Muehlberger et al., 1966	Tonuco Mtn area Seldon Canyon Quad	# 139
COMMENTS: Approximate location.					
1412 ±	**	whole-rock S. Sangre de Cristo Mtns Embudo granite model	granite Brookins et al., 1985 0.17000 ±	Nambe Falls area Tesuque Quad	# 143
COMMENTS:					
1413 ±	**	whole-rock Picuris Mountains Rinconada Formation model	pelitic schist Brookins et al., 1985 0.71000 ±	Copper Hill area Trampas Quad	# 144
COMMENTS: From R2 schist.					
1416 ±	**	whole-rock Picuris Mountains Harding Pegmatite model	pegmatite Brookins et al., 1985 0.71000 ±	Harding mine area Trampas Quad	# 145
COMMENTS: Fine-grained phase of pegmatite.					
1416 ± 100	**	whole-rock Pedernal Hills Pedernal Mtn granite	granite Armstrong and Holcombe, 1982	Pedernal Mtn area Pedernal Mtn Quad	# 146
COMMENTS: Approximate locality.					
1420 ± 117	**	whole-rock Magdalena Mountains Magdalena Granite isochron	granite White, 1977 0.70680 ± 0.01550	Jordan Canyon area Magdalena Quad	# 147
COMMENTS: Isochron of 10 samples.					
1422 ±	**	lepidolite Picuris Mountains Harding Pegmatite model	pegmatite replacement micas Balestri and Brookins, 1985 0.71000 ±	Harding mine area Trampas Quad	# 148
COMMENTS: Samples were collected and analyzed in late 1970s.					
1422 ±	**	whole-rock Picuris Mountains Glenwoody Fm pegmatite model	pegmatite Brookins et al., 1985 0.71000 ±	Pilar area Carson Quad	# 149
COMMENTS: Pegmatite cutting metarhyolite.					
1424 ±	**	whole-rock Picuris Mountains Rinconada Formation model	pelitic schist Brookins et al., 1985 0.71000 ±	Pilar cliffs area Trampas Quad	# 151
COMMENTS: From R2 schist.					
1425 ± 15	**	mu, whole-rock Tusas Mountains Vadito Group isochron	feld schist & pegmatite Long, 1972 0.72000 ± 0.00120	Mesa Jarita area La Madera Quad	# 153
COMMENTS: Isochron of 8 samples from 4 widely spaced localities. Combined whole-rock and mineral isochrons. Dating a metamorphic event, according to author.					
1427 ±	**	whole-rock Picuris Mountains Puntiagudo Granite Porphyry model	granite Brookins et al., 1985 0.71000 ±	Cerro Puntiagudo area Trampas Quad	# 154
COMMENTS:					

1430 ±	**	whole-rock Picuris Mountains Glenwoody Fm pegmatite model	pegmatite Brookins et al., 1985 0.71000 ±	Pilar area Carson Quad	# 156
COMMENTS: Pegmatite from Ortega Fm-Glenwoody Fm contact.					
1430 ±	**	whole-rock San Andres Mountains White Mine gneiss	granodiorite gneiss Muehlberger and Denison, 1964	White Mine area Salinas Peak Quad	# 157
COMMENTS:					
1435 ±	**	whole-rock Picuris Mountains Rinconada Formation model	pelitic schist Brookins et al., 1985 0.71000 ±	Pilar cliffs area Trampas Quad	# 161
COMMENTS: From R2 schist.					
1438 ±	**	whole-rock Picuris Mountains Glenwoody Formation model	metarhyolite Brookins et al., 1985 0.71000 ±	Pilar cliffs area Trampas Quad	# 164
COMMENTS:					
1439 ±	**	whole-rock Florida Mountains South Peak alkali granite model	alkali granite Brookins, 1974b 0.70500 ±	South Peak area Gym Peak Quad	# 166
COMMENTS:					
1439 ± 30	**	whole-rock Manzano Mountains Priest Quartz Monzonite isochron	quartz monzonite Bolton, 1976 0.70540 ± 0.00120	Estadio Canyon area Scholle, Manzano Peak Quad	# 167
COMMENTS: Isochron of 6 samples.					
1439 ±	**	whole-rock Sandia Mountains Sandia Granite isochron	muscovite aplite Brookins, 1974c 0.70400 ±	Carnue area Tijeras Quad	# 168
COMMENTS: Data from Steiger and Wasserburg, 1969					
1440 ± 30	**	whole-rock Jemez Mountains GT-2, EE-1, EE-2 dikes isochron	monzogranite dikes Brookins and Laughlin, 1983	Fenton Hill area Seven Springs Quad	# 169
COMMENTS: These data supercede Brookins and Laughlin, 1976. Isochron of 4 samples from GT-2, 1 sample from EE-1, and 4 samples from EE-2. Approximate locality.					
1440 ± 40	**	whole-rock Sandia Mountains Sandia Granite isochron	bi, whole-rock quartz monzonite Brookins and Majumdar, 1982 0.70540 ± 0.00050	Sandia Crest area Sandia Crest Quad	# 170
COMMENTS: Mineral--whole-rock isochron of 8 previous samples plus 3 whole-rock samples from Taggart and Brookins, 1975.					
1440 ± 130	**	whole-rock Picuris Mountains Rana Quartz Monzonite isochron	quartz monzonite Brookins et al., 1985 0.71130 ± 0.00710	S. of Harding mine Trampas Quad	# 171
COMMENTS: Isochron of 5 samples.					
1441 ±	**	whole-rock Picuris Mountains Harding Pegmatite model	lepidolite pegmatite replacement micas Balestri and Brookins, 1985 0.71000 ±	Harding mine area Trampas Quad	# 173
COMMENTS: Samples were collected and analyzed in late 1970s.					

1441 ±	**	K-feldspar pegmatite Brookins et al., 1985 0.71000 ±	Harding mine area Trampas Quad	# 174
Picuris Mountains Harding Pegmatite model COMMENTS:				
1450 ±	**	muscovite sillimanite schist Marvin et al., 1988	Monte Largo Hills area Sandia Park Quad	# 179
Sandia Mountains Monte Largo/Sandia schist model COMMENTS:				
1454 ±	**	muscovite pegmatite border zone Balestri and Brookins, 1985 0.71000 ±	Harding mine area Trampas Quad	# 181
Picuris Mountains Harding Pegmatite model COMMENTS: Samples were collected and analyzed in late 1970s.				
1457 ±	**	whole-rock granite Brookins et al., 1985 0.71000 ±	Santa Cruz Res. area Cundiyo Quad	# 184
S. Sangre de Cristo Mtns Embudo granite model COMMENTS:				
1457 ±	**	whole-rock pelitic schist Brookins et al., 1985 0.71000 ±	Copper Hill area Trampas Quad	# 185
Picuris Mountains Rinconada Formation model COMMENTS: From R2 schist.				
1460 ±	**	whole-rock felsic schist Brookins et al., 1985 0.71000 ±	Harding mine area Trampas Quad	# 186
Picuris Mountains Vadito Group schist model COMMENTS:				
1462 ± 21	**	whole-rock quartz monzonite gneiss Maxon, 1976a 0.71830 ± 0.00060	Tres Piedras area Tres Piedras Quad	# 191
Tusas Mountains Tres Piedras Granite isochron COMMENTS: Isochron of 9 samples.				
1464 ± 50	**	whole-rock granite Register and Brookins, 1979 0.70440 ± 0.00420	Santa Fe range area Quad	# 193
S. Sangre de Cristo Mtns Embudo granite isochron COMMENTS: 8 point whole-rock isochron from widely spaced samples. Locations given in Brookins et al., 1985.				
1467 ± 43	**	whole-rock granite Boadi, 1986 0.70256 ± 0.00029	Hopewell Lake area Burned Mountain Quad	# 195
Tusas Mountains Hopewell Lake granite isochron COMMENTS: All samples were altered. Isochron of 7 samples.				
1467 ± 35	**	whole-rock granitic gneiss Leyenberger, 1983 0.70700 ± 0.00240	Tolby Creek area Touch-Me-Not-Mountain Quad	# 196
Cimarron Range Eagle Nest felsic gneiss isochron COMMENTS: Isochron of 5 samples. This unit was mapped by J.A. Grambling as granulite facies gneiss. Sample locations unknown, but probably between Tolby Creek and Eagle Nest Lake.				
1469 ± 43	**	whole-rock quartz monzonite gneiss Maxon, 1976a 0.71450 ± 0.00130	Tusas River Can area Las Tablas Quad	# 197
Tusas Mountains Tres Piedras Granite isochron COMMENTS: Isochron of 5 samples.				
1471 ± 97	**	whole-rock granite Mukhopadhyay et al., 1975	Pedernal Mtn area Pedernal Mountain Quad	# 201
Pedernal Hills Pedernal Mtn granite isochron COMMENTS: Isochron of 3 porphyritic and 6 alkalic samples. Location unknown.				

1472 ± 15	**	whole-rock granite	Jaral Ranger Station Sandia Crest Quad	# 202
Sandia Mountains Sandia Granite isochron COMMENTS: Isochron of 3 samples.				
1476 ±	**	K-feldspar pegmatite	Harding mine area Trampas Quad	# 204
Picuris Mountains Harding Pegmatite model 0.71000 ± COMMENTS:				
1480 ± 90	**	whole-rock granulitic xenoliths	Carnue area Tijeras Quad	# 205
Sandia Mountains Sandia Granite isochron 0.70500 ± 0.00200 COMMENTS: Isochron of 4 samples.				
1480 ±	**	whole-rock granite gneiss	unknown area Becker Quad	# 206
Los Pinos Mountains Los Pinos granite Muehlberger et al., 1966 COMMENTS: Location unknown.				
1481 ±	**	mica pegmatite replacement micas	Harding mine area Trampas Quad	# 209
Picuris Mountains Harding Pegmatite model 0.71000 ± COMMENTS: Samples were collected and analyzed in late 1970s.				
1485 ± 234	**	whole-rock amphibolite	Garcia Canyon area Magdalena Quad	# 210
Magdalena Mountains Garcia Canyon metagabbro isochron 0.70400 ± 0.00230 COMMENTS: Isochron of 6 samples.				
1488 ± 42	**	whole-rock granite	Tolby Creek area Touch-Me-Not Mountain Quad	# 211
Cimarron Range Eagle Nest granite isochron 0.70780 ± 0.00050 COMMENTS: Isochron of 4 samples. J. A. Grambling mapped this as granitic gneiss. Location of samples approximate.				
1490 ±	**	mica pegmatite	Pidlite mine area Mora Quad	# 212
S. Sangre de Cristo Mtns Pidlite pegmatite Aldrich et al., 1957 COMMENTS:				
1490 ± 90	**	whole-rock granodiorite, granite, aplite	Post Office Flat area Post Office Flat Quad	# 213
Zuni Mountains Mirabel "aplite" Isochron 0.70620 ± 0.00080 COMMENTS: Isochron of 6 granodiorite and 6 granite-aplite samples.				
1492 ±	**	whole-rock granite	Pacheco Canyon area Tesuque Quad	# 215
S. Sangre de Cristo Mtns Embudo granite model 0.71000 ± COMMENTS:				
1493 ± 30	**	whole-rock metarhyodacite	Pedernal Mtn area Pedernal Mtn Quad	# 216
Pedernal Hills M-2 metavolcanic Armstrong and Holcombe, 1982 COMMENTS: Approximate locality.				
1494 ±	**	muscovite pegmatite border zone	Harding mine area Trampas Quad	# 217
Picuris Mountains Harding Pegmatite model 0.71000 ± COMMENTS: Samples were collected and analyzed in late 1970s.				

1495 ±	**	whole-rock felsic schist	Harding mine area	# 218
Picuris Mountains		Brookins et al., 1985	Trampas Quad	
Vadito Group schist model		0.71000 ±		
COMMENTS:				
1497 ±	**	cleavelandite pegmatite cleavelandite-qtz	Harding mine area	# 219
Picuris Mountains		Balestri and Brookins, 1985	Trampas Quad	
Harding Pegmatite model		0.90000 ±		
COMMENTS: Samples were collected and analyzed in late 1970s.				
1500 ± 120	**	whole-rock biotite granodiorite	Fenton Hill area	# 220
Jemez Mountains		Brookins and Laughlin, 1983	Seven Springs Quad	
GT-2 and EE-2 granodiorite isochron		0.70380 ± 0.00160		
COMMENTS: These data supercede Brookins and Laughlin, 1976. Isochron of 14 samples from GT-2 and 6 samples from EE-2. Approximate locality. Depth = 2588-2925 m.				
1501 ±	**	whole-rock felsic schist	Harding mine area	# 223
Picuris Mountains		Brookins et al., 1985	Trampas Quad	
Vadito Group schist model		0.71000 ±		
COMMENTS:				
1502 ±	**	muscovite pegmatite border zone	Harding mine area	# 224
Picuris Mountains		Balestri and Brookins, 1985	Trampas Quad	
Harding Pegmatite model		0.71000 ±		
COMMENTS: Samples were collected and analyzed in late 1970s.				
1510 ±	**	muscovite pegmatite border zone	Harding mine area	# 226
Picuris Mountains		Balestri and Brookins, 1985	Trampas Quad	
Harding Pegmatite model		0.71000 ±		
COMMENTS: Samples were collected and analyzed in late 1970s.				
1517 ± 49	**	whole-rock orbicular granite	Sandia Crest area	# 227
Sandia Mountains		Enz et al., 1979	Sandia Crest Quad	
Sandia Granite		0.70300 ±		
COMMENTS:				
1520 ±	**	muscovite bi-musc gneiss	Cañon del Agua area	# 229
Sandia Mountains		Marvin et al., 1988	Placitas Quad	
Juan Tabo Series model		0.70300 ±		
COMMENTS:				
1527 ± 39	**	whole-rock biotite granodiorite	Guadalupe Peak area	# 231
Manzano Mountains		White, 1979	Bosque Peak Quad	
Ojita granodiorite isochron		0.70160 ± 0.00100		
COMMENTS: Isochron of 10 samples.				
1529 ± 42	**	muscovite pegmatite wall-zone	Harding mine area	# 232
Picuris Mountains		Brookins et al., 1979	Trampas Quad	
Harding Pegmatite isochron		-3.60640 1.32640		
COMMENTS:				
1530 ± 120	**	whole-rock qtz monzonite-granodiorite	unknown area	# 233
Florida Mountains		Brookins, 1980	South Peak Quad	
Florida Mtns granite isochron		0.70940 ± 0.00900		
COMMENTS: Isochron of 8 samples. Location of samples unknown.				
1534 ±	**	whole-rock granite	Pacheco Canyon area	# 234
S. Sangre de Cristo Mtns		Brookins et al., 1985	Tesuque Quad	
Embudo granite model		0.71000 ±		
COMMENTS:				

1550 ± 130	**	whole-rock monzogranite gneiss	Fenton Hill area Seven Springs Quad	# 236
Jemez Mountains EE-2 monzogranite isochron COMMENTS: These data supersede Brookins and Laughlin, 1976. Isochron of 9 samples. Approximate locality.				
1550 ± 130	**	whole-rock granite	Cerro Arboles area Trampas Quad	# 237
Picuris Mountains Puntiagudo Granite Porphyry isochron 0.70560 ± 0.00530 COMMENTS: Isochron of 6 samples.				
1550 ± 40	**	whole-rock granite	Tusas Mountain area Burned Mountain Quad	# 238
Tusas Mountains Tusas Mtn granite isochron 0.72000 ± COMMENTS: Isochron of 4 samples. Paper also includes Pb-Pb model ages of granite at 1449 and 1421 Ma.				
1559 ± 52	**	whole-rock metarhyolite	Pinon Canyon area Becker Quad	# 243
Los Pinos Mountains Sevilleta Metarhyolite Fm isochron COMMENTS: Isochron of 4 metarhyolite and 1 amphibolite sample. Uses data of Bolton, 1976.				
1565 ±	**	cleavelandite pegmatite cleavelandite-qtz	Harding mine area Trampas Quad	# 244
Picuris Mountains Harding Pegmatite model 0.90000 ± COMMENTS: Samples were collected and analyzed in late 1970s.				
1568 ± 91	**	whole-rock quartz monzonite	Mineral Hill area White Sands, Organ Quad	# 246
San Andres Mountains Mineral Hill Pluton isochron 0.65080 ± 0.00690 COMMENTS: Isochron of 6 samples.				
1569 ± 314	**	whole-rock quartz monzonite	Estadio Canyon area Scholle, Manzano Peak Quad	# 247
Manzano Mountains Priest Quartz Monzonite isochron 0.70290 ± 0.00640 COMMENTS: Isochron of 6 samples. Used data of Bolton, 1976.				
1576 ± 72	**	whole-rock granite gneiss	Tijeras Canyon area Tijeras Quad	# 249
Sandia Mountains Cibola Gneiss isochron 0.70220 ± 0.00100 COMMENTS: Isochron of 7 samples.				
1584 ±	**	whole-rock metarhyolite	Pilar cliffs area Trampas Quad	# 251
Picuris Mountains Glenwoody Formation model 0.71000 ± COMMENTS:				
1598 ±	**	whole-rock metarhyolite	Pilar area Carson Quad	# 253
Picuris Mountains Glenwoody Formation model 0.71000 ± COMMENTS:				
1601 ± 239	**	whole-rock granite	Whiteface Mtn area Becker and Cerro Montoso Quad	# 254
Los Pinos Mountains Los Pinos granite isochron 0.70780 ± 0.02050 COMMENTS: Isochron of 6 samples. Data are from Bolton, 1976.				
1608 ±	**	whole-rock aplite	various areas Trampas Quad	# 255
S. Sangre de Cristo Mtns Rana Quartz Monzonite isochron 0.70750 ± COMMENTS: Isochron of 2 samples of Rana qtz monzonite.				

1615 ± 15	**	whole-rock	# 258
San Pedro Mountains		qtz diorite & qtz monzonite	Nacimiento PK area
San Pedro quartz monzonite		Wobus and Hedge, 1980	Nacimiento Peak Quad
isochron		1.70470 ± 0.00050	
COMMENTS: Isochron of 7 samples. Woodward (1987) noted that this unit yielded U-Pb zircon age of 1730 ± 20 Ma (L.T. Silver, pers. comm., 1972).			
1616 ±	**	lepidolite	# 259
Picuris Mountains		pegmatite replacement micas	Harding mine area
Harding Pegmatite		Balestri and Brookins, 1985	Trampas Quad
model		0.71000 ±	
COMMENTS: Samples were collected and analyzed in late 1970s.			
1620 ± 40	**	whole-rock	# 260
Jemez Mountains		monzogranitic gneiss	Fenton Hill area
GT-2 and EE-1 monzogranite		Brookins and Laughlin, 1983	Seven Springs Quad
isochron			
COMMENTS: These data supercede Brookins and Laughlin, 1976. Isochron of 24 samples from GT-2 and 1 sample from EE-1. Approximate locality. Depth = 731 m to 2588 m.			
1621 ± 27	**	whole-rock	# 261
S. Sangre de Cristo Mtns		granite, aplite	various areas
Embudo granite		Fullager and Shiver, 1973	Trampas, Peñasco, El Valle Quad
isochron		0.70070 ± 0.00110	
COMMENTS: Isochron of 9 samples, including Rana qtz monzonite, Peñasco qtz monzonite, and "Embudo granite" from widely spaced areas.			
1625 ±	**	K-feldspar	# 263
Oscura Mountains		granitic gneiss	N of Oscura Mtns
Sun No. 1 Bingham State gneiss		Muehlberger et al., 1966	Wrye Peak SW Quad
COMMENTS: From north of Oscura Mtns. Sample from part of subsurface "central granite belt."			
1625 ± 49	**	whole-rock	# 264
Los Pinos Mountains		metarhyolite	Pinon Canyon area
Sevilleta Metarhyolite Fm		Bolton, 1976	Becker Quad
isochron		0.70210 ± 0.00220	
COMMENTS: Isochron of 4 metarhyolite and 1 amphibolite sample. Samples collected by K.C. Condie.			
1626 ± 17	**	whole-rock	# 265
Tusas Mountains		qtz monzonite gneiss	Tusas Mtn area
Tres Piedras Granite		Maxon, 1976a	Mule Canyon Quad
isochron		0.71020 ± 0.00710	
COMMENTS: Two point isochron. Maxon (1976b) lists Rb-Sr isochron age of 1491 Ma.			
1627 ±	**	whole-rock	# 266
Picuris Mountains		metarhyolite	Pilar area
Glenwoody Formation		Brookins et al., 1985	Carson Quad
model		0.71000 ±	
COMMENTS:			
1628 ± 19	**	whole-rock	# 267
S. Sangre de Cristo Mtns		granite, aplite	various areas
Embudo granite		Fullager and Shiver, 1973	Trampas, Peñasco, El Valle Quad
isochron		0.70140 ± 0.00080	
COMMENTS: Isochron of 7 samples, including Rana qtz monzonite, Peñasco qtz monzonite, and Embudo granite.			
1630 ± 250	**	whole-rock	# 268
S. Sangre de Cristo Mtns		amphibolite	Rio Valdez area
Pecos Complex		Ward, 1990	Pecos Falls Quad
isochron		0.70390 ± 0.00049	
COMMENTS:			
1638 ± 40	**	whole-rock	# 271
S. Sangre de Cristo Mtns		granite	various areas
Embudo granite		Fullager and Shiver, 1973	Trampas, Peñasco, El Valle Quad
isochron		0.70120 ± 0.00130	
COMMENTS: Isochron of 5 samples, including Rana qtz monzonite, Peñasco qtz monzonite, Embudo granite.			

1640 ± 40	**	whole-rock schist and amphibolite Brookins and Majumdar, 1983	Cañon del Agua area Placitas Quad	# 272
Sandia Mountains Juan Tabo Series isochron COMMENTS:				
1640 ± 230	**	whole-rock amphibolite Ward, 1990 0.70503 ± 0.00043	Rio Mora area Pecos Falls Quad	# 273
S. Sangre de Cristo Mtns Pecos Complex isochron COMMENTS:				
1654 ± 23	**	whole-rock trondhjemite Barker et al., 1974 0.70320 ± 0.00020	Rio Brazos area Lagunitas Creek Quad	# 284
Tusas Mountains Rio Brazos trondhjemite isochron COMMENTS: Isochron of 6 widely separated samples.				
1655 ±	**	whole-rock pegmatite Brookins et al., 1985 0.71000 ±	Harding mine area Trampas Quad	# 286
Picuris Mountains Harding Pegmatite model COMMENTS: Fine-grained phase of pegmatite.				
1666 ±	**	whole-rock granite Muehlberger et al., 1966	Bar Y dome area Bar Y Ranch Quad	# 300
Tucumcari basin Cities Service No. 1 granite COMMENTS:				
1673 ± 41	**	whole-rock quartz monzonite Long, 1974	Harding mine area Trampas Quad	# 302
Picuris Mountains Rana Quartz Monzonite isochron COMMENTS: Data reinterpreted from Fullager and Shiver, 1973. Isochron of 4 samples.				
1688 ± 33	**	whole-rock trondhjemite & hornblendite Barker et al., 1974 0.70260 ± 0.00020	Rio Brazos area Lagunitas Creek Quad	# 308
Tusas Mountains Rio Brazos trondhjemite isochron COMMENTS: Isochron of 6 samples plus 2 hornblendites.				
1708 ±	**	whole-rock metarhyolite Brookins et al., 1985 0.71000 ±	Pilar area Carson Quad	# 319
Picuris Mountains Glenwoody Formation model COMMENTS:				
1730 ± 110	**	whole-rock amphibolite Ward, 1990 0.70473 ± 0.00017	Truchas Peak area Truchas Peak Quad	# 328
S. Sangre de Cristo Mtns Vadito Group amphibolite isochron COMMENTS:				
1739 ±	**	whole-rock felsic schist Brookins et al., 1985 0.71000 ±	Harding mine area Trampas Quad	# 332
Picuris Mountains Vadito Group schist model COMMENTS:				
1800 ± 50	**	whole-rock quartz latite Brookins, 1974a 15.00000 ± 0.00150	N. Nacimiento Mtns Nacimiento Peak or Regina Quad	# 343
Nacimiento Mountains San Pedro metavolcanics isochron COMMENTS: Preliminary age of 6 samples. Location unknown.				
1830 ± 170	**	whole-rock granite-veined amphibolite Brookins and Laughlin, 1976 0.70500 ± 0.00200	Fenton Hill area Seven Springs Quad	# 344
Jemez Mountains GT-1 amphibolite isochron COMMENTS: Isochron of 10 samples. Approximate location.				

1840 ± 170	**	whole-rock gneissic granodiorite	N. Nacimiento Mtns Regina Quad	# 345
Nacimiento Mountains San Pedro leucogranodiorite isochron 17.00000 ± 0.00150 COMMENTS: Isochron of 4 samples. Location unknown.				
1890 ± 100	**	whole-rock gneiss, gt & charnockite granuli	Kilbourne Hole area Kilbourne Hole Quad	# 346
Kilbourne Hole xenolith isochron Abitz et al., 1987 0.70703 ± 0.00040 COMMENTS: Isochron of 4 samples.				
1899 ±	**	cleavelandite pegmatite cleavelandite-qtz	Harding mine area Trampas Quad	# 347
Picuris Mountains Harding Pegmatite model Balestri and Brookins, 1985 0.90000 ± COMMENTS: This age is anomalously old, authors do not discuss. Samples were collected and analyzed in late 1970s.				
1920 ± 180	**	whole-rock amphibolite	Fenton Hill area Seven Springs Quad	# 348
Jemez Mountains GT-1 amphibolite isochron Brookins and Laughlin, 1983 0.70140 ± 0.00250 COMMENTS: These data supersede Brookins and Laughlin, 1976. 8 samples analyzed do not fulfill whole-rock criteria.				
1990 ± 260	**	whole-rock gt & charnockite granulite	Kilbourne Hole area Kilbourne Hole Quad	# 349
Kilbourne Hole xenolith isochron Abitz et al., 1987 0.70693 ± 0.00099 COMMENTS: Isochron of 3 samples				
2040 ± 190	**	whole-rock fel gneiss, charnockite granulit	Kilbourne Hole area Kilbourne Hole Quad	# 350
Kilbourne Hole xenolith isochron Abitz et al., 1987 0.70683 ± 0.00083 COMMENTS: Isochron of 5 samples.				

Id. K-Ar ages

Information on each date is displayed in the following format:

AGE AND UNCERTAINTY (**)
MOUNTAIN RANGE
NAME OF UNIT
COMMENTS:

MATERIAL DATED
ROCK TYPE
REFERENCE

RECORD #
AREA
7.5' QUAD

** = significance of age is uncertain

848 ± 42	**	whole-rock basalt	Rattlesnake Hills area Rattlesnake Hill Quad	# 6
Rattlesnake Hills Rattlesnake Hills basalt Setter, 1985 COMMENTS: Location is approximate. Basalt is unaltered.				
950 ±	**	biotite granite	Coop mine area C Bar Ranch Quad	# 8
Big Burro Mountains Hombrook Mtn granite Hedlund, 1978 COMMENTS:				
951 ± 20	**	whole-rock diabase dike	Ice Caves area Ice Caves Quad	# 9
Zuni Mountains Ice Caves diabase dike Laughlin et al., 1979 COMMENTS:				
1180 ± 25	**	riebeckite riebeckite granite	Pajarito Mtn area Pajarito Mountain Quad	# 22
Pajarito Mountain Pajarito granite Kelley, 1968 COMMENTS:				
1189 ±	**	biotite granite	Hobbs area Hobbs West Quad	# 26
Pecos slope Stanolind No. 11-X granite Muehlberger et al., 1966 COMMENTS:				
1200 ± 25	**	hornblende pegmatite/syenite	Pajarito Mtn area Pajarito Mountain Quad	# 27
Pajarito Mountain Pajarito Mtn pegmatite Kelley, 1968 COMMENTS:				
1234 ± 19	**	biotite granitic gneiss	Las Tablas area Las Tablas Quad	# 32
Tusas Mountains Tres Piedras Granite Gresens, 1975 COMMENTS:				
1272 ± 19	**	muscovite qtz-mu-feld schist	Las Tablas area Las Tablas Quad	# 42
Tusas Mountains Vadito Group Gresens, 1975 COMMENTS:				
1272 ± 19	**	muscovite qtz-mu schist	Las Tablas area Las Tablas Quad	# 43
Tusas Mountains Vadito Group Gresens, 1975 COMMENTS:				
1273 ± 19	**	muscovite musc-bi-gt schist	Hondo Canyon area Taos SW Quad	# 45
Picuris Mountains Rinconada Formation Gresens, 1975 COMMENTS: Sample from R1 schist.				
1307 ± 20	**	muscovite qtz-mu schist	Kiowa Mountain area Las Tablas Quad	# 58
Tusas Mountains Vadito Group Gresens, 1975 COMMENTS:				
1309 ±	**	mica pegmatite	Harding mine area Trampas Quad	# 59
Picuris Mountains Harding Pegmatite Aldrich et al., 1957 COMMENTS:				
1316 ± 20	**	muscovite qtz-musc schist	Pilar area Carson Quad	# 63
Picuris Mountains Glenwoody Formation Gresens, 1975 COMMENTS:				
1317 ± 15	**	hornblende hbl-chl-bi schist	Ancones area La Madera Quad	# 64
Tusas Mountains Vadito Group Gresens, 1975 COMMENTS:				

1319 ± 20	**	muscovite pegmatite Gresens, 1975	Kiowa Canyon area Las Tablas Quad	# 66
Tusas Mountains Vadito Group COMMENTS:				
1319 ± 20	**	muscovite granite Gresens, 1975	South of El Valle area El Valle Quad	# 67
Picuris Mountains Embudo granite COMMENTS:				
1320 ± 43	**	muscovite feld-musc schist Ward, 1990	Rio Mora area Pecos Falls Quad	# 69
S. Sangre de Cristo Mtns Pecos Complex COMMENTS: Rb-Sr mineral isochron age from same rock is 1286 ± 9 Ma.				
1321 ± 28	**	biotite biotite monzonite Brookins et al., 1975	Sandia Crest area Sandia Crest Quad	# 70
Sandia Mountains Sandia Granite COMMENTS:				
1326 ± 20	**	muscovite pegmatite Gresens, 1975	Bobcat Pass area Red River Pass Quad	# 74
Taos Range Old Mike Peak quartz monzonite COMMENTS:				
1328 ±	**	muscovite granite Muehlberger et al., 1966	Turkey Mountains area Cerro Negro Quad	# 76
Las Vegas basin Shamrock No. 1 McArthur granite COMMENTS: Medium grained, two-mica granite.				
1335 ± 20	**	muscovite pegmatite Gresens, 1975	North of Cerro Alto Trampas Quad	# 81
Picuris Mountains Vadito Group COMMENTS:				
1338 ±	**	mica pegmatite Aldrich et al., 1957	Pidlite mine area Mora Quad	# 85
S. Sangre de Cristo Mtns Pidlite pegmatite COMMENTS:				
1340 ± 20	**	biotite hbl-chl-bi schist Gresens, 1975	Ancones area La Madera Quad	# 89
Tusas Mountains Vadito Group COMMENTS: Same sample as UAKA-71-23.				
1342 ± 28	**	biotite orbicular granite Brookins et al., 1975	Sandia Crest area Sandia Crest Quad	# 90
Sandia Mountains Sandia Granite COMMENTS:				
1343 ± 27	**	biotite orbicular granite Brookins et al., 1975	Sandia Crest area Sandia Crest Quad	# 91
Sandia Mountains Sandia Granite COMMENTS:				
1343 ± 21	**	biotite qtz-mu-bi schist Gresens, 1975	Kiowa Mountain area Las Tablas Quad	# 92
Tusas Mountains Vadito Group COMMENTS:				
1348 ±	**	muscovite musc schist Muehlberger et al., 1966	Dexter area Dexter East Quad	# 95
Pecos slope COMMENTS:				
1358 ±	**	biotite granite Muehlberger et al., 1966	North of Santa Rosa Bar Y Ranch Quad	#102
Great Plains Province Cities Service No. 1 granite COMMENTS:				

1358 ±	**	biotite granitic gneiss	North of Oscura Mountains Wrye Peak SW Quad	#103
Oscura Mountains Sun No. 1 Bingham State granite Muehlberger et al., 1966 COMMENTS: From subsurface "central granite belt."				
1358 ±	**	mica granite	Placitas area Placitas Quad	#104
Sandia Mountains Sandia Granite Aldrich et al., 1957 COMMENTS:				
1368 ±	**	muscovite granite	Mockingbird Gap area Mockingbird Gap SE Quad	#111
Oscura Mountains Oscura Pluton Muehlberger et al., 1966 COMMENTS: Coarse-grained, two-mica granite.				
1368 ±	**	biotite granite gneiss	North of Oscura Mountains Wrye Peak SW Quad	#112
Oscura Mountains Sun No. 1 Bingham State granite Muehlberger and Denison, 1964 COMMENTS: From subsurface "central granite belt."				
1368 ±	**	biotite dioritic gneiss	Tonuco Mountain area Selden Canyon Quad	#113
San Diego Mountain Tonuco Mtn gneiss Muehlberger et al., 1966 COMMENTS: Approximate location.				
1380 ± 45	**	biotite granodiorite	Bear Canyon area Bullard Peak Quad	#119
Big Burro Mountains Burro Mtn granodiorite Marvin et al., 1988 COMMENTS:				
1384 ± 29	**	muscovite metasedimentary rock	Rincon area Sandia Crest Quad	#122
Sandia Mountains Juan Tabo Series Brookins and Shafiqullah, 1975 COMMENTS: Metasedimentary rock from contact aureole of Sandia Granite.				
1388 ±	**	biotite granitic gneiss	San Andres Peak area San Andres Peak Quad	#124
San Andres Mountains San Andres pluton Muehlberger et al., 1966 COMMENTS:				
1392 ± 29	**	muscovite pegmatite	Rincon area Sandia Crest Quad	#125
Sandia Mountains Rincon pegmatite Brookins and Shafiqullah, 1975 COMMENTS: Pegmatite from metamorphic rocks near Sandia Granite.				
1408 ±	**	biotite granodioritic gneiss	Rhodes Canyon area Tip Top Canyon Quad	#140
San Andres Mountains Rhodes Canyon granodiorite Muehlberger et al., 1966 COMMENTS:				
1410 ± 50	**	biotite sill-gt gneiss	Bullard Peak area Redrock NE Quad	#141
Big Burro Mountains Bullard Peak Series Hedlund, 1980 COMMENTS:				
1410 ± 50	**	biotite gneiss	Bullard Peak area Bullard Peak Quad	#142
Big Burro Mountains Bullard Peak Series Marvin et al., 1988 COMMENTS:				
1424 ± 30	**	muscovite pegmatite	Rincon area Sandia Crest Quad	#152
Sandia Mountains Rincon pegmatite Brookins and Shafiqullah, 1975 COMMENTS: Pegmatite from metamorphic rocks near Sandia Granite.				
1550 ±	**	biotite granite	Round Mountain area Gold Hill Quad	#239
Big Burro Mountains Burro Mtn granite Hedlund, 1978 COMMENTS: U-Pb zircon age for this granite is 1445 ± 15 Ma (Stacey and Hedlund, 1983).				

Ie. Ar-Ar ages

Information on each date is displayed in the following format:

AGE AND UNCERTAINTY (**)	MATERIAL DATED	TYPE OF AGE	RECORD #
MOUNTAIN RANGE	ROCK TYPE	AREA	
NAME OF UNIT	REFERENCE	7.5' QUAD	
COMMENTS			

** = significance of age is uncertain

960 ± 1	**	muscovite quartzite	plateau Latir Creek area Cerro Quad	# 10
Taos Range Latir Creek quartzite Pedrick, pers. comm., 1992 COMMENTS:				
964 ± 1	**	muscovite gneiss	plateau Cedro Canyon area Costilla Quad	# 11
Taos Range Cedro Canyon gneiss Pedrick, pers. comm., 1992 COMMENTS:				
1005 ± 1	**	muscovite quartzite	plateau Cedro Canyon area Costilla Quad	# 13
Taos Range Cedro Canyon quartzite Pedrick, pers. comm., 1992 COMMENTS:				
1258 ± 1	**	muscovite quartzite	plateau S. Tolby Creek area Touch-Me-Not Mtn Quad	# 37
Cimarron Range Tolby Meadow tectonic unit Grambling and Dallmeyer, in prep. COMMENTS: From 240 m from Tolby Creek shear zone, along eastern edge of Tolby Creek. Total-Gas Age = 1258±1 Ma.				
1268 ± 1	**	muscovite gneissic quartzite	plateau 2 km W of Clear Creek Touch-Me-Not Mtn Quad	# 40
Cimarron Range Eagle Nest tectonic unit Grambling and Dallmeyer, in review COMMENTS: Retrograde muscovite. From 120 m SW of Fowler Pass shear zone, along NE edge of quartzite. Total-Gas Age = 1261±1 Ma.				
1306 ± 4	**	hornblende amphibolite	plateau Cedro Canyon Costilla Quad	# 57
Taos Range Cedro Canyon amphibolite Pedrick, pers. comm., 1992 COMMENTS:				
1326 ± 3	**	hornblende amphibolite	plateau Latir Creek Cerro Quad	# 73
Taos Range Latir Creek amphibolite Pedrick, pers. comm., 1992 COMMENTS:				
1338 ± 3	**	muscovite metarhyolite	plateau Monte Largo Canyon Manzano Peak Quad	# 84
Manzano Mountains Sevilleta Metarhyolite Fm Thompson et al., 1991 COMMENTS: Mylonite. From 450 m NW of Monte Largo Spring, in shear zone b/w N and S tectonometamorphic sequences.				
1350 ± 1	**	muscovite metarhyolite	plateau South of Horseshoe mine Touch-Me-Not Mtn Quad	# 98
Cimarron Range Cimarron River tectonic unit Grambling and Dallmeyer, in press COMMENTS: Ridge 220 m NE of Fowler Pass shear zone, adjacent to banded ironstone.				
1361 ± 3	**	muscovite pelitic schist	plateau Pipe Canyon Manzano Peak Quad	#105
Manzano Mountains Sevilleta Metarhyolite Fm Thompson et al., 1991 COMMENTS: Discordant spectra are interpreted to result from thermal overprint at 1000-1100 Ma of system that cooled through Ar retention temps at ~1340-1360 Ma. From 150 m E of sample G92:6, along N side of Pipe Canyon. From unretrograded aprt of S tectonometamorphic sequence. Total-Gas-Age = 1357±3 Ma.				
1366 ± 2	**	muscovite pelitic schist	plateau Estadio Canyon Manzano Peak Quad	#110
Manzano Mountains Sevilleta Metarhyolite Fm Grambling, pers. comm., 1992 COMMENTS: From 900 m W of Priest quartz monzonite, from unretrograded part of S tectonometamorphic sequence. Total-Gas-Age = 1357±3 Ma.				
1394 ± 8	**	hornblende amphibolite	isotope correl. b/w Tolby and Clear creeks Touch-Me-Not Mtn. Quad	#126
Cimarron Range Eagle Nest tectonic unit Grambling and Dallmeyer, in press COMMENTS: Retrograde hornblende. Within a thin lens of gneissic amphibolite, along contact between gneissic quartzite and quartzofeldspathic gneiss, 480 m SW of trace of Fowler Pass shear zone. Total-Gas-Age = 1413±8 Ma.				
1401 ± 2	**	hornblende amphibolite	plateau West of Clear Creek Touch-Me-Not Mtn Quad	#133
Cimarron Range Eagle Nest tectonic unit Grambling and Dallmeyer, in press COMMENTS: Retrograde hornblende. From a continuous layer of amphibolite in quartzofeldspathic gneiss, 180 m W of ridge crest. Isotope correlation age = 1398±4 Ma. Total-Gas-Age = 1388±3 Ma.				

1402 ± 1	**	muscovite	plateau	#134
Sandia Mountains		granite	Juan Tabo picnic area	
Sandia Granite		Grambling, pers. comm., 1992	Sandia Crest Quad	
COMMENTS: NW edge of Sandia Granite, Juan Tabo picnic area. Total-Gas-Age = 1285±2 Ma.				
1423 ± 2	**	muscovite	plateau	#150
Sandia Mountains		muscovite quartzite	Seven Springs	
Cibola quartzite		Grambling, pers. comm., 1992	Tijeras Quad	
COMMENTS: From N-trending canyon 0.4 km NW of Seven Springs pulloff from US-66. Total-Gas-Age = 1410±2 Ma.				
1438 ± 5	**	hornblende	isotope correl.	#165
Manzano Mountains		amphibolite	Pipe Canyon area	
Sevilleta Metarhyolite Fm		Thompson et al., 1991	Manzano Peak Quad	
COMMENTS: Isotope correlation age is 36/40 vs 39/40. Total-Gas-Age = 1449±3 Ma. From westernmost mafic layer exposed on N side of Pipe Canyon; unretrograded part of S tectonometamorphic sequence. Isotope correlation age is interpreted to be time sample cooled through about 500°C.				
1692 ± 2	**	hornblende	plateau	#311
Cimarron Range		quartz-diorite	W. of Palisades area	
Clear Creek quartz-diorite		Grambling and Dallmeyer, in press	Touch-Me-Not Mtn Quad	
COMMENTS: From 140 m E of contact with Cimarron River granitic pluton. Cimarron River tectonic unit. Isotope correlation age = 1678±4 Ma. Total-gas Age = 1668±3 Ma.				

If. Miscellaneous ages (note: these data are not listed in Part 2)

Information on each date is displayed in the following format:

AGE & UNCERTAINTY (**)	ISOTOPIC METHOD	COUNTY	QUADRANGLE		
MOUNTAIN RANGE	TYPE OF AGE	LAT-LONG	LAB USED	MET	DEFORM
NAME OF UNIT	MATERIAL DATED	T-R-SECTION	REPORTED AGE	RECALCULATED AGE	
ROCK TYPE	100,000 SHEET	UTM COORDS	DECAY CONSTANT(S)		
AREA	2° SHEET	TYPE OF REF	OUTCROP OR DRILLHOLE NAME		
REFERENCE 1					
REFERENCE 2		REFERENCE 3			
COMMENTS:					

** = significance of age is uncertain

620 ±	**	Pb-alpha	Hidalgo	Big Hatchet Peak Quad
Little Hatchet Mtns		Pb-alpha	31°44' 108°25.5'	USGS
Little Hatchet granite		zircon	29S 16W 36	620 ±
granite		Animas	3514000 744000	
N of Hatchet Gap		Douglas	unpublished	✓
Dane, 1957, unpub. USGS report				

COMMENTS: Dark gray, porphyritic, hornblende granite. Purple zircons.

1400 ±	**	Fission-track	Bernalillo	Quad
Sandia Mountains		Fission-track		
Sandia Granite		sphene		1400 ±
quartz monzonite		Albuquerque		
unknown area		Albuquerque		✓

Brookins, 1974c

Poupeau, 1969

Naeser, 1971

COMMENTS: Data are from Poupeau, 1969. Apatite yielded fission-track age of 50 Ma.

1500 ± 250	**	Pb-alpha	Valencia	Becker Quad
Los Pinos Mountains		Pb-alpha	34°28' 106°30'	
Sevilleta Metarhyolite Fm		zircon		1500 ± 250 Y Y
metarhyolite		Socorro	3815850 362350	238=15.4x10 ⁻¹¹ 235=97.1x10 ⁻¹¹
unknown area		Socorro	paper	✓
Marvin and Dobson, 1979				

COMMENTS: Collected by R.S. Cannon.

1550 ± 175	**	Pb-alpha	Taos	Trampas Quad
Picuris Mountains		Pb-alpha	36°11' 105°47.5'	USGS
Vadito Group		zircon	23N 11E 32	1550 ± 175 Y Y
metaconglomerate		Taos	4004400 428800	238=15.4x10 ⁻¹¹ 235=97.1x10 ⁻¹¹
Harding mine area		Taos	paper	✓
Marvin and Dobson, 1979				

COMMENTS: Probably detrital zircons. Significance unknown. Collected by L.R. Stieff. Age reported by Marvin, 1968.

1770 ± 70		Sm-Nd	Bernalillo	Tijeras Quad
Sandia Mountains		isochron		
Tijeras Greenstone?				1770 ± 70 Y Y
metabasalt		Albuquerque		
Tijeras Canyon		Albuquerque	abstract	✓
Nelson and DePaolo, 1984				

COMMENTS: $\epsilon_{\text{Nd}} = +5.2$. Location and unit unknown.

1770 ± 70		Sm-Nd		Quad
Manzano Mountains		isochron		
Sevilleta Metarhyolite Fm?				1770 ± 70 Y Y
metarhyolite			abstract	✓
unknown area				
Nelson and DePaolo, 1984.				

COMMENTS: $\epsilon_{\text{Nd}} = +5.2$. Location and unit unknown.

1810 ±	**	Sm-Nd	Doña Ana	Bennet Mountain Quad
San Andres Mountains		model	32°36'04" 106°27'57"	U. of TX, Dallas
Little San Nicolas gneiss		whole-rock	20S 5E 6	1810 ± Y Y
gt gneiss		White Sands	3607260 362500	
Goat Mtn area		Las Cruces	paper	✓
Roths, 1991				

COMMENTS:

4460 ± 300	**	K-Ar	Hidalgo	Gold Hill Quad
Big Burro Mountains			32°29.23' 108°33.89'	USGS
Round Mountain diabase dike		plagioclase	21S 17W 11 S	4460 ± 300
diabase dike		Lordsburg	3596900 728900	$\beta = 4.962 \times 10^{-10}/\text{yr}$ $\epsilon = 0.581 \times 10^{-}$
Round Mountain area		Silver City	paper	✓
Marvin et al., 1988				

COMMENTS: Spurious age due to excess radiogenic argon.

4460 ± 450 **	K-Ar	Hidalgo	Gold Hill Quad
Big Burro Mountains		32°29' 108°33'	USGS
Round Mountain diabase dike	augite	21S 17W 11 S	4460 ± 450
diabase dike	Lordsburg	3596900 728900	$\lambda = 4.962 \times 10^{-10}/\text{yr}$ $\epsilon = 0.581 \times 10^{-10}/$
Round Mountain area	Silver City	paper	✓
Marvin et al., 1988			

COMMENTS: Spurious age due to excess radiogenic argon.

5253 ± **	Rb-Sr	Taos	Trampas Quad
Picuris Mountains	isochron	36°12.07' 105°47.65'	UNM
Harding Pegmatite	albite	23N 11E 29	5253 ±
pegmatite	Taos	4005450 428600	$87=1.42 \times 10^{-11}/\text{yr}$
Harding mine area	Raton	paper	✓
Brookins et al., 1979			

COMMENTS: Anomalously old age.

PART II**Comprehensive List of Isotopic Age Determinations
in Order of Increasing Age**

This list is the master list of all data collected for all age determinations in the computerized database.
Information on each date is displayed in the following format:

AGE & UNCERTAINTY (**)	ISOTOPIC METHOD	COUNTY	QUADRANGLE	RECORD #
MOUNTAIN RANGE	TYPE OF AGE	LAT-LONG	LAB USED	METAMOR. DEFORMED
NAME OF UNIT	MATERIAL DATED	T-R-SECTION	REPORTED AGE	RECALCULATED AGE
ROCK TYPE	100,000 SHEET	UTM COORDS	DECAY CONSTANT(S)	
AREA	2° SHEET	TYPE OF REF	OUTCROP(✓) or DRILLHOLE NAME	
REFERENCE 1				
REFERENCE 2		REFERENCE 3		
COMMENTS:				

** = significance of age is uncertain

626 ± **	Rb-Sr	Luna	South Peak Quad	# 1
Florida Mountains	model	32°4.02' 107°33.93'	UNM	
South Peak alkali granite	whole-rock	26S 7W 9	640 ± 626 ±	
quartz syenite	Deming	3550550 257700	87=1.39x10 ⁻¹¹ /yr	
South Peak area	Las Cruces	paper	✓	
Brookins, 1974b				
Brookins and Corbitt, 1974				
COMMENTS:				

670 ± **	Rb-Sr	Taos	Latir Peak Quad	# 2
Taos Range	isochron	36°51' 105°52.6'	USGS	
Comanche Point gabbro	whole-rock		670 ±	
gabbro	Wheeler Peak	4078000 466000		
Comanche Point area	Raton	map	✓	
Lipman and Reed, 1989 (cited as written comm., Z.E. Peterman, 1984)				

COMMENTS: Preliminary isochron. Rock is altered. Near confluence of Costilla and Latir creeks.

685 ± **	Rb-Sr	Luna	South Peak Quad	# 3
Florida Mountains	model	32°2.57' 107°39.97'	UNM	
South Peak alkali granite	whole-rock	26S 8W 16	700 ± 685 ±	
alkali granite	Deming	3548100 248250	87=1.39x10 ⁻¹¹ /yr	
South Peak area	Las Cruces	paper	✓	
Brookins, 1974b				
Brookins and Corbitt, 1974				
COMMENTS:				

685 ± **	Rb-Sr	Luna	South Peak Quad	# 4
Florida Mountains	model	32°6.83' 107°37.87'	UNM	
South Peak alkali granite	whole-rock	25S 8W 24	700 ± 685 ±	
alkali granite	Deming	3555900 251750	87=1.39x10 ⁻¹¹ /yr	
South Peak area	Las Cruces	paper	✓	
Brookins, 1974b				
Brookins and Corbitt, 1974				
COMMENTS:				

718 ± **	Rb-Sr	Taos	Trampas Quad	# 5
Picuris Mountains	isochron	36°12.07' 105°47.65'	UNM	
Harding Pegmatite	microcline	23N 11E 29	718 ±	
pegmatite	Taos	4005450 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1979				

COMMENTS: High scatter of data.

848 ± 42 **	K-Ar	Torrance	Rattlesnake Hill Quad	# 6
Rattlesnake Hills		34°34.1' 105°49.4'	Kriti, Houston	
Rattlesnake Hills basalt	whole-rock	4N 11E 18	848 ± 42	No
basalt	Vaughn	3825350 424450		
Rattlesnake Hills area	Fort Sumner	abstract	✓	
Setter, 1985				

COMMENTS: Location is approximate. Basalt is unaltered.

852 ± **	Rb-Sr	Luna	South Peak Quad	# 7
Florida Mountains	model	32°01.67' 107°38.73'	UNM	
South Peak alkali granite	whole-rock	26S 8W 22	870 ± 852 ±	
alkali granite	Deming	3546450 250250	87=1.39x10 ⁻¹¹ /yr	
South Peak area	Las Cruces	paper	✓	
Brookins, 1974b				
Brookins and Corbitt, 1974				
COMMENTS:				

950 ± **	K-Ar	Grant	C Bar Ranch Quad	# 8
Big Burro Mountains		32°26.89' 108°30.2'	USGS	
Hombrook Mtn granite	biotite	21S 16W 29	950 ±	
granite	Lordsburg	3592850 734750		
Coop mine area	Silver City	map	✓	
Hedlund, 1978b				

COMMENTS:

951 ± 20 **	K-Ar	Cibola	Ice Caves Quad	# 9
Zuni Mountains		34°59.45' 108°01.45'	U. of Arizona	
Ice Caves diabase dike	whole-rock	9N 11W 20	951 ± 20	
diabase dike	Fence Lake	3875900 771675	$\beta=4.963 \times 10^{-10}/\text{yr}$	$e=0.581 \times 10^{-10}/\text{yr}$
Ice Caves area	Saint Johns	paper	✓	
Laughlin et al., 1979				

COMMENTS:

960 ± 1 **	Ar-Ar	Taos	Cerro Quad	# 10
Taos Range	plateau	36°49.57' 105°30.92'	U. of Georgia	
Latir Creek quartzite	muscovite		960 ± 1	Y Y
quartzite	Wheeler Peak			
Latir Creek area	Raton	unpublished	✓	
Pedrick, personal communication, 1992				

COMMENTS:

964 ± 1 **	Ar-Ar	Taos	Costilla Quad	# 11
Taos Range	plateau	36°55.12' 105°30.62'	U. of Georgia	
Cedro Canyon gneiss	muscovite		964 ± 1	Y Y
gneiss	Wheeler Peak			
Cedro Canyon area	Raton	unpublished	✓	
Pedrick, personal communication, 1992				

COMMENTS:

986 ± 29 **	Rb-Sr	Socorro	Ladron Peak Quad	# 12
Ladron Mountains	isochron	34°26' 107°6'	Miami Univ.	
Capirote Granite	whole-rock	2,3N 3,2W	1007 ± 30 986 ± 29	
quartz monzonite	Magdalena		$87=1.39 \times 10^{-11}/\text{yr}$	
W of Ladron Peak	Socorro	thesis	✓	
White, 1977				

COMMENTS: Isochron of 2 samples.

1005 ± 1 **	Ar-Ar	Taos	Costilla Quad	# 13
Taos Range	plateau	36°55.22' 105°30.89'	U. of Georgia	
Cedro Canyon quartzite	muscovite		1005 ± 1	Y Y
quartzite	Wheeler Peak			
Cedro Canyon area	Raton	unpublished	✓	
Pedrick, personal communication, 1992				

COMMENTS:

1013 ± 242 **	Rb-Sr	Sierra, Soc., Linc.	Quad	# 14
San Andres/Oscura Mtns	isochron		Miami Univ.	
Mockingbird Gap pluton	whole-rock		1035 ± 242 1013 ± 242	
quartz monzonite			$87=1.39 \times 10^{-11}/\text{yr}$	
Mockingbird Gap area	Tularosa	thesis	✓	
White, 1977				

COMMENTS: Isochron of 5 samples.

1038 ± **	Rb-Sr	Luna	South Peak Quad	# 15
Florida Mountains	model	32°1.73' 107°35.32'	UNM	
South Peak alkali granite	whole-rock	26S 7W 19	1060 ± 1038 ±	
alkali granite	Deming	3546350 255550	$87=1.39 \times 10^{-11}/\text{yr}$	
South Peak area	Las Cruces	paper	✓	
Brookins, 1974b				
Brookins and Corbitt, 1974				

COMMENTS:

1121 ± 6 **	Rb-Sr	Taos	Trampas Quad	# 16
Picuris Mountains	isochron	36°12.07' 105°47.65'	UNM	
Harding Pegmatite	perthite	23N 11E 29	1121 ± 6	
pegmatite perthite zone	Taos	4005450 428600	$87=1.42 \times 10^{-11}/\text{yr}$	
Harding mine area	Raton	paper	✓	
Brookins et al., 1979				

COMMENTS:

1128 ± 44 **	Rb-Sr	Bernalillo	Sandia Crest Quad	# 17
Sandia Mountains	model	35°12.95' 106°28.12'	UNM	
Sandia Granite	biotite	11N 4E 1	1152 ± 45 1128 ± 44	
orbicular granite	Albuquerque	3897750 366300	87=1.39x10 ⁻¹¹ /yr	
Sandia Crest area	Albuquerque	paper	✓	
Brookins et al., 1975				

COMMENTS: Biotite is partially chloritized.

1139 ± **	Rb-Sr	Guadalupe	Harben Lake Quad	# 18
Tucumcari basin		34°55' 104°25.5'	U. of TX, Austin	
Kusky-General No. 1 granite	whole-rock	8N 24E 16	1100 ± 1139 ±	
granite	Santa Rosa	3863700 554000	87=1.47x10 ⁻¹¹ /yr	
E of Santa Rosa	Fort Sumner	paper		
Muehlberger et al., 1966				
Callender et al., 1976				
COMMENTS:				

1139 ± **	Rb-Sr	Lea	Eunice Quad	# 19
Delaware basin			U. of TX, Austin	
Continental No. 1-E gneiss	biotite	21S 37E 27	1100 ± 1139 ± Y Y	
granitic gneiss	Jal		87=1.47x10 ⁻¹¹ /yr	
Eunice area	Hobbs	paper	Continental No. 1-E Lockhart	
Muehlberger et al., 1966				

COMMENTS:

1143 ± 56 **	Rb-Sr	Socorro	Ladron Peak Quad	# 20
Ladron Mountains	isochron	34°26' 107°04'	Miami Univ.	
Ladron metavolcanic sequence	whole-rock	2,3N 2W	1168 ± 57 1143 ± 56 Y Y	
felsic schist & amphibolite	Magdalena		87=1.39x10 ⁻¹¹ /yr	
Ladron Peak area	Socorro	paper	✓	
White, 1977				

COMMENTS: Isochron of 8 samples.

1175 ± 15 **	Rb-Sr	Otero	Pajarito Mountain Quad	# 21
Pajarito Mountain		33°14.13' 105°25.8'	Mobil, Dallas	
Pajarito granite	feldspar	12S 15E 25,2	1135 ± 15 1175 ± 15	
riebeckite granite	Ruidoso	3677300 459950	87=1.47x10 ⁻¹¹ /yr	
Pajarito Peak area	Roswell	paper	✓	
Denison and Hetherington, 1969				

COMMENTS:

1180 ± 25 **	K-Ar	Otero	Pajarito Mountain Quad	# 22
Pajarito Mountain		33°14.13' 105°25.8'	Mobil, Dallas	
Pajarito granite	riebeckite	12S 15E 25,2	1170 ± 25 1180 ± 25	
riebeckite granite	Ruidoso	3677300 459950	87=4.72x10 ⁻¹⁰ /yr	
Pajarito Mtn area	Roswell	paper	✓	
Kelley, 1968				
Denison and Hetherington, 1969				
COMMENTS:				

1183 ± 62 **	Rb-Sr	Taos	Trampas Quad	# 23
Picuris Mountains	isochron	36°10.5 105°49.75'	UNC	
Rana Quartz Monzonite	bi-feld-w.r.	22N 10E 1	1208 ± 63 1183 ± 62	
granite	Taos	4003500 425440	87=1.39x10 ⁻¹¹ /yr	
Cañoncito area	Raton	paper	✓	
Fullager and Shiver, 1973				

COMMENTS:

1185 ± **	Rb-Sr	Santa Fe	Truchas Quad	# 24
S. Sangre de Cristo Mtns	model	36°00.12' 105°52.05'	UNM and UNC	
Embudo granite	whole-rock	20N 10E 3	1185 ±	
granite	Taos	3984300 421800	87=1.42x10 ⁻¹¹ /yr	
Cordova area	Raton	paper	✓	
Brookins et al., 1985				
Register and Brookins, 1979				
COMMENTS:				

1186 ± 23 **	Rb-Sr	Taos	Peñasco Quad	# 25
Picuris Mountains	isochron	36°11.83' 105°44.13'	UNC	
Peñasco Quartz Monzonite granite	bi-feld-w.r.	23N 11E 26	1212 ± 23 1186 ± 23	
Rio Lucio area	Taos	4004100 433860	87=1.39x10 ⁻¹¹ /yr	
Fullager and Shiver, 1973	Raton	paper	✓	

COMMENTS: Isochron of mineral separates and whole-rock.

1189 ± **	K-Ar	Lea	Hobbs West Quad	# 26
Pecos slope		32°42.5' 103°10'	U. of TX, Austin	
Stanolind No. 11-X granite	biotite	19S 38E 4	1180 ± 1189 ±	
granite	Hobbs	3620000 672000	B=4.72x10 ⁻¹⁰ /yr e=0.585x10 ⁻¹⁰ /yr	
Hobbs area	Hobbs	paper	Stanolind no. 11-X State 'A'	
Muehlberger et al., 1966				

COMMENTS:

1200 ± 25 **	K-Ar	Otero	Pajarita Mountain Quad	# 27
Pajarito Mountain		33°14.2' 105°25.83'	Mobil, Dallas	
Pajarito Mtn pegmatite	hornblende	12S 15E 25	1190 ± 25 1200 ± 25	
pegmatite/syenite	Ruidoso	3677450 460000		
Pajarito Mtn area	Roswell	paper	✓	
Kelley, 1968				
Denison and Hetherington, 1969		McLemore and McKee, 1988		

COMMENTS:

1201 ± **	Rb-Sr	Lea	Buckeye Quad	# 28
Delaware basin			U. of TX, Austin	
Socony Mobil No. 95 granite	K-feldspar	17S 34E 26	1160 ± 1201 ±	
granite porphyry	Hobbs		87=1.47x10 ⁻¹¹ /yr	
Buckeye area	Hobbs	paper		
Muehlberger et al., 1966				

COMMENTS:

1211 ± **	Rb-Sr	Lea	Hobbs West Quad	# 29
Delaware basin			U. of TX, Austin	
Stanolind No. 11-X granite	whole-rock	19S 38E 4	1170 ± 1211 ±	
granite	Hobbs		87=1.47x10 ⁻¹¹ /yr	
Hobbs area	Hobbs	paper	Stanolind No. 11-X State 'A'	
Muehlberger et al., 1966				

COMMENTS:

1214 ± **	Rb-Sr	Luna	South Peak Quad	# 30
Florida Mountains	model	32°1.49' 107°33.1'	UNM	
South Peak alkali granite	whole-rock	26S 7W 21	1240 ± 1214 ±	
alkali granite	Deming	3545850 258850	87=1.39x10 ⁻¹¹ /yr	
South Peak area	Las Cruces	paper	✓	
Brookins, 1974b				
Brookins and Corbitt, 1974				

COMMENTS:

1230 ± 130 **	Rb-Sr	Mora	Truchas Peak Quad	# 31
S. Sangre de Cristo Mtns	min isochron	35°54'08. 105°40'00.	UNM	
Rinconada Formation	min. separates		1230 ± 130	Y Y
pelitic schist	Santa Fe	3973000 439500		
Pecos Baldy area	Santa Fe	paper	✓	
Ward, 1990				
Ward, 1986				

COMMENTS:

1234 ± 19 **	K-Ar	Rio Arriba	Las Tablas Quad	# 32
Tusas Mountains		36°34.0' 106°02.5'	U. of Arizona	
Tres Piedras Granite	biotite	27N 8E 13	1234 ± 19	Y Y
granitic gneiss	Chama	4047150 406800		
Las Tablas area	Aztec	paper	✓	
Gresens, 1975				

COMMENTS:

1243 ± 170 **	Rb-Sr	Doña Ana	Gardner Peak Quad	# 33
San Andres Mountains	isochron		Miami Univ.	
Mayberry Pluton	whole-rock		1270 ± 171 1243 ± 170	
quartz monzonite	White Sands		87=1.39x10 ⁻¹¹ /yr	
Mayberry Canyon area	Las Cruces	thesis	✓	
White, 1977				

COMMENTS: Isochron of 6 samples.

1246 ± 40 **	Rb-Sr	Taos	Trampas Quad	# 34
Picuris Mountains	isochron	36°12.07' 105°47.65'	UNM	
Harding Pegmatite	lepidolite	23N 11E 29	1246 ± 40	
pegmatite	Taos	4005450 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al, 1979				

COMMENTS:

1247 ± 62 **	Rb-Sr	Socorro	Magdalena Quad	# 35
Magdalena Mountains	isochron	34°5' 107°10'	Miami Univ.	
Magdalena Granite	whole-rock	2,3S 3W	1274 ± 63 1247 ± 62	No
granite	Magdalena		87=1.39x10 ⁻¹¹ /yr	
Jordan Canyon area	Socorro	paper	✓	
White, 1978				
White, 1979		Brookins, 1982		

COMMENTS: Isochron of 6 samples.

1253 ± 28 **	Rb-Sr	Mora	Truchas Peak Quad	# 36
S. Sangre de Cristo Mtns	isochron	35°54'08. 105°40'00.	UNM	
Rinconada Formation	whole-rock		1253 ± 28	Y Y
pelitic schist	Santa Fe	3973000 439500	✓	
Pecos Baldy area	Santa Fe	paper		
Ward, 1990				
Ward, 1986				

COMMENTS:

1258 ± 1 **	Ar-Ar	Colfax	Touch-Me-Not Mtn Quad	# 37
Cimarron Range	plateau	36°30.07' 105°13.05'	U. of Georgia	
Tolby Meadow tectonic unit	muscovite		1258 ± 1	Y Y
quartzite	Wheeler Peak		✓	
S. Tolby Creek area	Raton	paper		
Grambling and Dallmeyer, in press, JMG				

COMMENTS: From 240 m from Tolby Creek shear zone, along eastern edge of Tolby Creek. Total-Gas Age = 1258±1 Ma.

1264 ± 128 **	Rb-Sr	Taos	Trampas Quad	# 38
Picuris Mountains	isochron	36°12.07' 105°47.65'	UNM	
Harding Pegmatite	rose muscovite	23N 11E 29	1264 ± 128	
pegmatite	Taos	4005450 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1979				

COMMENTS:

1266 ± 42 **	K/Ar	Mora	Truchas Peak Quad	# 39
S. Sangre de Cristo Mtns		35°57'53. 105°38'40.	Krueger	
Vadito Group	muscovite	20N 12E 15	1266 ± 42	Y Y
qtz-musc schist	Santa Fe	3980025 441900	β=4.962x10 ⁻¹⁰ /yr ε=0.581x10 ⁻¹⁰ /yr	
Truchas Peak area	Santa Fe	paper	✓	
Ward, 1990				
Ward, 1986				

COMMENTS: Rb-Sr mineral isochron age from same rock is 1352 ± 24 Ma.

1268 ± 1 **	Ar-Ar	Colfax	Touch-Me-Not Mtn Quad	# 40
Cimarron Range	plateau	36°31.2' 105°11.43'	U. of Georgia	
Eagle Nest tectonic unit	muscovite		1268 ± 1	Y Y
gneissic quartzite	Wheeler Peak		✓	
2 km W of Clear Creek	Raton	paper		
Grambling and Dallmeyer, in press, JMG				

COMMENTS: Retrograde muscovite. From 120 m SW of Fowler Pass shear zone, along NE edge of quartzite. Total-Gas Age = 1261±1 Ma.

1270 ±	**	Rb-Sr	Grant	C Bar Ranch Quad	# 41
Big Burro Mountains			32°22.69' 108°29.27'	USGS	
Burro Mtn granite		biotite	22S 16W 21	1270 ±	Y Y
gneissic granite & granite		Lordsburg	3584900 736300		
Langford Mtns area		Silver City	map	✓	
Hedlund, 1978 - (cited as J.S. Stacey, 1977, written commun.)					

COMMENTS:

1272 ± 19	**	K-Ar	Rio Arriba	Las Tablas Quad	# 42
Tusas Mountains			36°34.0' 106°02.5'	U. of Arizona	
Vadito Group		muscovite	27N 8E 13	1272 ± 19	Y Y
qtz-mu-feld schist		Chama	4047150 406800		
Las Tablas area		Aztec	paper	✓	
Gresens, 1975					

COMMENTS:

1272 ± 19	**	K-Ar	Rio Arriba	Las Tablas Quad	# 43
Tusas Mountains			36°33.0' 106°03.0'	U. of Arizona	
Vadito Group		muscovite	27N 8E 25	1272 ± 19	Y Y
qtz-mu schist		Chama	4045300 406050		
Las Tablas area		Aztec	paper	✓	
Gresens, 1975					

COMMENTS:

1273 ±	**	Rb-Sr	Chaves	Dexter East Quad	# 44
Pecos slope				U. of TX, Austin	
Continental No. 1 Langford s		whole-rock	14S 26E 2	1230 ± 1273 ±	Y Y
muscovite schist		Roswell		87=1.47x10 ⁻¹¹ /yr	
Dexter area		Roswell	paper	Continental No. 1 Langford	
Muehlberger et al., 1966					

COMMENTS:

1273 ± 19	**	K-Ar	Taos	Taos SW Quad	# 45
Picuris Mountains			36°17' 105°42.5'	U. of Arizona	
Rinconada Formation		muscovite	24N 12E 30	1273 ± 19	Y Y
musc-bi-gt schist		Taos	4015400 436400		
Hondo Canyon area		Raton	paper	✓	
Gresens, 1975					

COMMENTS: Sample from R1 schist.

1281 ±	**	Rb-Sr	Taos	Trampas Quad	# 46
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		whole-rock	23N 11E 29	1281 ±	
pegmatite spotted rock		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1286 ± 9	**	Rb-Sr	Mora	Pecos Falls Quad	# 47
S. Sangre de Cristo Mtns		isochron	35°52'51. 105°33'16.	UNM	
Pecos Complex		min. separates	19N 13E 10	1286 ± 9	Y Y
feldspar-musc schist		Santa Fe	3970700 449950		
Rio Mora area		Santa Fe	paper	✓	
Ward, 1990 Ward, 1986					

COMMENTS: Isochron of several mineral separates.

1286 ±	**	Rb-Sr	Taos	Trampas Quad	# 48
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		whole-rock	23N 11E 29	1286 ±	
pegmatite spotted rock		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1291 ± 51 ** Ladron Mountains Ladron Granite granite North of Ladron Peak White, 1979 White, 1978 COMMENTS: Isochron of 7 samples.	Rb-Sr isochron whole-rock Magdalena Socorro	Socorro 34°27' 107°4.5' 3N 2W 3815000 309400 paper White, 1977	Ladron Peak Quad Miami Univ. 1319 ± 51 1291 ± 51 87=1.39x10 ⁻¹¹ /yr ✓	# 49
1292 ± ** Florida Mountains South Peak alkali granite alkali granite South Peak area Brookins, 1974b Brookins and Corbitt, 1974 COMMENTS:	Rb-Sr model whole-rock Deming Las Cruces	Luna 32°1.93' 107°34.32' 26S 7W 20 3546750 257050 paper	South Peak Quad UNM 1320 ± 1292 ± 87=1.39x10 ⁻¹¹ /yr ✓	# 50
1294 ± 161 ** San Andres Mountains Mineral Hill pluton quartz monzonite Mineral Hill area White, 1977 COMMENTS: Isochron of 5 samples.	Rb-Sr isochron whole-rock Las Cruces Las Cruces	Doña Ana 32° 106° 21S 4E 21,2 thesis	White Sands, Organ Quad Miami Univ. 1322 ± 161 1294 ± 161 87=1.39x10 ⁻¹¹ /yr ✓	# 51
1295 ± ** Picuris Mountains Harding Pegmatite pegmatite border zone Harding mine area Balestri and Brookins, 1985 COMMENTS: Samples were collected and analyzed in late 1970s.	Rb-Sr model muscovite Taos Raton	Taos 36°11.53' 105°47.67' 23N 11E 29 4005425 428000 paper	Trampas Quad UNM 1295 ± 87=1.42x10 ⁻¹¹ /yr ✓	# 52
1300 ± ** Sandia Mountains Sandia Granite quartz monzonite Carnue area Brookins and Majumdar, 1982 Brookins, 1982 COMMENTS: Two-point mineral -- whole-rock isochron.	Rb-Sr isochron bi, whole-rock Albuquerque Albuquerque	Bernalillo 35°3.8' 106°28.37' 10N 4E 25 3880800 365650 paper	Tijeras Quad UNM 1300 ± Y 87=1.42x10 ⁻¹¹ /yr ✓	# 53
1300 ± ** Picuris Mountains Harding Pegmatite pegmatite Harding mine area Aldrich et al., 1957 COMMENTS:	Rb-Sr mica Taos Raton	Taos 36°11.5'N 105°47.6'W 23N 11E 29 4005400 428600 paper	Taos Quad Carnegie Institution 1300 ± ✓	# 54
1304 ± ** Picuris Mountains Harding Pegmatite pegmatite spotted rock Harding mine area Balestri and Brookins, 1985 COMMENTS: Samples were collected and analyzed in late 1970s.	Rb-Sr model whole-rock Taos Raton	Taos 36°11.53' 105°47.67' 23N 11E 29 4005425 428000 paper	Trampas Quad UNM 1304 ± 87=1.42x10 ⁻¹¹ /yr ✓	# 55
1304 ± ** Caballo Mountains Caballo Granite gneissic granite Caballo dam area Muehlberger et al., 1966 COMMENTS: Location is approximate. Condie and Budding (1979) called this unit Caballo pluton.	Rb-Sr whole-rock Hatch Las Cruces	Sierra 32°53' 107°16.5' 16S 4W 29 paper	Caballo Quad U. of TX, Austin 1260 ± 1304 ± Y Y 87=1.47x10 ⁻¹¹ /yr ✓	# 56

1306 ± 4 **	Ar-Ar	Taos	Costilla Quad	# 57
Taos Range	plateau	36°55.13' 105°30.6'	U. of Georgia	
Cedro Canyon amphibolite	hornblende		1306 ± 4	Y Y
amphibolite	Wheeler Peak			
Cedro Canyon	Raton	unpublished	✓	
Pedrick, personal communication, 1992				

COMMENTS:

1307 ± 20 **	K-Ar	Rio Arriba	Las Tablas Quad	# 58
Tusas Mountains		36°36.0' 106°06.0'	U. of Arizona	
Vadito Group	muscovite	27N 8E 4	1307 ± 20	Y Y
qtz-mu schist	Chama	4050900 401600		
Kiowa Mountain area	Aztec	paper	✓	
Gresens, 1975				

COMMENTS:

1309 ± **	K-Ar	Taos	Trampas Quad	# 59
Picuris Mountains		36°11.55' 105°47.66'		
Harding Pegmatite	mica	23N 11E 29	1300 ± 1309 ±	
pegmatite	Taos	4005400 428600	$\beta=4.72 \times 10^{-10}/\text{yr}$	$\epsilon=0.557 \times 10^{-10}/\text{yr}$
Harding mine area	Raton	paper	✓	
Aldrich et al., 1957				

COMMENTS:

1310 ± **	Rb-Sr	Bernalillo	Tijeras Quad	# 60
Sandia Mountains	isochron	35°3.8' 106°28.37'	UNM	
Sandia Granite	bi, whole-rock	10N 4E 25	1310 ±	Y
quartz monzonite	Albuquerque	3880800 365650	$87=1.42 \times 10^{-11}/\text{yr}$	
Carnue area	Albuquerque	paper	✓	
Brookins and Majumdar, 1982				
Brookins, 1982				
COMMENTS: Two-point mineral -- whole-rock isochron.				

1310 ± 260 **	Rb-Sr	Mora	Pecos Falls Quad	# 61
S. Sangre de Cristo Mtns	isochron	35°52'51. 105°33'16.	UNM	
Pecos Complex	whole-rock	19N 13E 10	1310 ± 260	Y Y
feld-musc schist	Santa Fe	3970700 449950		
Rio Mora area	Santa Fe	paper	✓	
Ward, 1990				
Ward, 1986				
COMMENTS:				

1314 ± **	Rb-Sr	Union	Des Moines Quad	# 62
Sierra Grande arch			U. of TX, Austin	
Sierra Grande No. 1 granite	biotite	29N 29E 4	1270 ± 1314 ±	
granite	Capulin Mountai		$87=1.47 \times 10^{-11}/\text{yr}$	
Des Moines area	Dalhart	paper	Sierra Grande No. 1 Rogers	
Muehlberger et al., 1966				

COMMENTS:

1316 ± 20 **	K-Ar	Taos	Carson Quad	# 63
Picuris Mountains		36°16' 105°47.5'	U. of Arizona	
Glenwoody Formation	muscovite	24N 11E 32	1316 ± 20	Y Y
qtz-musc schist	Taos	4013600 428900		
Pilar area	Raton	paper	✓	
Gresens, 1975				

COMMENTS:

1317 ± 15 **	K-Ar	Rio Arriba	La Madera Quad	# 64
Tusas Mountains		36°26.0' 106°3.0'	U. of Arizona	
Vadito Group	hornblende	25N 8E 1	1317 ± 15	Y Y
hbl-chl-bi schist	Abiquiu	4032300 405900		
Ancones area	Aztec	paper	✓	
Gresens, 1975				

COMMENTS:

1319 ± 42 ** S. Sangre de Cristo Mtns Vadito Group quartz-musc schist Truchas Peak area Ward, 1990 Ward, 1986 COMMENTS:	Rb-Sr isochron whole-rock Santa Fe Santa Fe	Mora 35°57'53. 105°38'40. 20N 12E 15 3980025 441900 paper	Truchas Peak Quad UNM 1319 ± 42 ✓	# 65 Y Y
1319 ± 20 ** Tusas Mountains Vadito Group pegmatite Kiowa Canyon area Gresens, 1975 COMMENTS:	K-Ar muscovite Chama Aztec	Rio Arriba 36°35.0' 106°04.0' 27N 8E 11 4009000 404600 paper	Las Tablas Quad U. of Arizona 1319 ± 20 ✓	# 66
1319 ± 20 ** Picuris Mountains Embudo granite granite South of El Valle area Gresens, 1975 COMMENTS:	K-Ar muscovite Taos Raton	Taos 36°4.5' 105°43' 3992250 435450 paper	El Valle Quad U. of Arizona 1319 ± 20 ✓	# 67
1320 ± ** Sandia Mountains Sandia Granite quartz monzonite Carnue area Brookins and Majumdar, 1982 Brookins, 1982 COMMENTS: Two-point mineral -- whole-rock isochron.	Rb-Sr isochron bi, whole-rock Albuquerque Albuquerque	Bernalillo 35°3.78'N 106°28.37' 10N 4E 25 3880800 365650 paper	Tijeras Quad UNM 1320 ± 87=1.42x10-11/yr ✓	# 68 Y
1320 ± 43 ** S. Sangre de Cristo Mtns Pecos Complex feld-musc schist Rio Mora area Ward, 1990 Ward, 1986 COMMENTS: Rb-Sr mineral isochron age from same rock is 1286 ± 9 Ma.	K-Ar muscovite Santa Fe Santa Fe	Mora 35°52'51. 105°33'16. 19N 13E 10 3970700 449950 paper	Pecos Falls Quad Krueger 1320 ± 43 β=4.962x10-10/yr ε=0.581x10-10/yr ✓	# 69 Y Y
1321 ± 28 ** Sandia Mountains Sandia Granite biotite monzonite Sandia Crest area Brookins et al., 1975 Enz et al., 1979 COMMENTS:	K-Ar biotite Albuquerque Albuquerque	Bernalillo 35°12.93' 106°28.05' 11N 4E 1 3897700 366400 paper Brookins, 1982	Sandia Crest Quad U. of Arizona 1313 ± 28 β=4.76x10-10/yr ε=5.89x10-11/yr ✓	# 70
1324 ± ** Picuris Mountains Harding Pegmatite pegmatite Harding mine area Balestri and Brookins, 1985 COMMENTS: Samples were collected and analyzed in late 1970s.	Rb-Sr model muscovite Taos Raton	Taos 36°11.53' 105°47.67' 23N 11E 29 4005425 428000 paper	Trampas Quad UNM 1324 ± 87=1.42x10-11/yr ✓	# 71
1325 ± 76 ** San Andres Mountains Capitol Peak Pluton quartz monzonite N San Andres Mtns White, 1977 COMMENTS: Isochron of 7 samples, widely spaced. From Sheep Mountain, Capitol Peak, Tip Top Canyon, and Strawberry Peak quads.	Rb-Sr isochron whole-rock Tularosa Tularosa	Sierra thesis	Quad Miami Univ. 1353 ± 76 1325 ± 76 87=1.39x10-11/yr ✓	# 72

1326 ± 3	**	Ar-Ar	Taos	Cerro Quad	# 73
Taos Range		plateau	36°49.69' 105°31.19'	U. of Georgia	
Latir Creek amphibolite		hornblende		1326 ± 3	Y Y
amphibolite		Wheeler Peak			
Latir Creek		Raton	unpublished	✓	
Pedrick, personal communication, 1992					

COMMENTS:

1326 ± 20	**	K-Ar	Colfax	Red River Pass Quad	# 74
Taos Range			36°41' 105°20'	U. of Arizona	
Old Mike Peak quartz monzoni		muscovite		1326 ± 20	
pegmatite		Wheeler Peak	4059600 470200		
Bobcat Pass area		Raton	paper	✓	
Gresens, 1975					

COMMENTS:

1327 ± 136	**	Rb-Sr	Socorro	Magdalena Quad	# 75
Magdalena Mountains		isochron	34°5' 107°10'	Miami Univ.	
Magdalena Granite		whole-rock	2,3S 3W	1355 ± 139 1327 ± 136	No
granite		Magdalena		87=1.39x10 ⁻¹¹ /yr	
Jordan Canyon area		Socorro	paper	✓	
White, 1978					
White, 1979			Brookins, 1982		
COMMENTS: Isochron of 4 samples.					

1328 ±	**	K-Ar	Mora	Cerro Negro Quad	# 76
Las Vegas basin			36°4' 104°52.5'	U. of TX, Austin	
Shamrock No. 1 McArthur gran		muscovite	19N 21E 12	1320 ± 1328 ±	
granite		Springer	3991000 511000	8=4.72x10 ⁻¹⁰ /yr e=0.585x10 ⁻¹⁰ /yr	
Turkey Mountains area		Raton	paper	Shamrock No. 1 McArthur	
Muehlberger et al., 1966					
Callender et al., 1976					
COMMENTS: Medium grained, two-mica granite.					

1329 ±	**	Rb-Sr	Taos	Trampas Quad	# 77
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		lepidolite	23N 11E 29	1329 ±	
pegmatite replacement micas		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1330 ±	**	Rb-Sr	Sandoval	Placitas Quad	# 78
Sandia Mountains		isochron	35°16.23' 106°28.83'	UNM	
Sandia Granite		bi, whole-rock	12N 4E 14	1330 ±	Y
quartz monzonite		Albuquerque	3903850 365300	87=1.42x10 ⁻¹¹ /yr	
Cañon del Agua area		Albuquerque	paper	✓	
Brookins and Majumdar, 1983					
Brookins, 1982					
COMMENTS: Two-point mineral -- whole-rock isochron.					

1330 ±	**	Rb-Sr	Sandoval	Placitas Quad	# 79
Sandia Mountains		isochron	35°16.15' 106°28.83'	UNM	
Sandia Granite		bi, whole-rock	12N 4E 14	1330 ±	Y
quartz monzonite		Albuquerque	3903700 365300	87=1.42x10 ⁻¹¹ /yr	
Cañon del Agua area		Albuquerque	paper	✓	
Brookins and Majumdar, 1982					
Brookins, 1982					
COMMENTS: Two-point mineral -- whole-rock isochron.					

1332 ±	**	Rb-Sr	Taos	Trampas Quad	# 80
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		whole-rock	23N 11E 29	1332 ±	
pegmatite spotted rock		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1335 ± 20 **	K-Ar	Taos	Trampas Quad	# 81
Picuris Mountains		36°12.0' 105°47.0'	U. of Arizona	
Vadito Group	muscovite	23N 11E 28	1335 ± 20	
pegmatite	Taos	4006200 429600		
North of Cerro Alto	Raton	paper	✓	
Gresens, 1975				

COMMENTS:

1336 ± 73 **	Rb-Sr	Taos	Trampas Quad	# 82
Picuris Mountains	isochron	36°12.07' 105°47.65'	UNM	
Harding Pegmatite	whole-rock	23N 11E 29	1336 ± 73	
pegmatite spotted rock	Taos	4005450 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1979				

COMMENTS: Isochron of 4 samples.

1338 ± 26 **	Rb-Sr	Socorro, Lincoln	Trinity site, Mockingbird Gap SE Qua# 83	
Oscura Mountains	isochron		Miami Univ.	
Oscura Pluton	whole-rock		1367 ± 26 1338 ± 26	
biotite granite	Oscura Mountain		87=1.39x10 ⁻¹¹ /yr	
various areas	Tularosa	paper	✓	
White, 1978		White, 1977		
White, 1979				

COMMENTS: Isochron of 8 samples.

1338 ± 3 **	Ar-Ar	Valencia	Manzano Peak Quad	# 84
Manzano Mountains	plateau	34°36.43' 106°28.62'	U. of Georgia	
Sevilleta Metarhyolite Fm	muscovite		1338 ± 3	Y Y
metarhyolite	Belen			
Monte Largo Canyon	Socorro	paper	✓	
Thompson et al., 1991				

COMMENTS: Mylonite. From 450 m NW of Monte Largo Spring, in shear zone b/w N and S tectonometamorphic sequences.

1338 ± **	K-Ar	Mora	Mora Quad	# 85
S. Sangre de Cristo Mtns		35°57.3' 105°18.7'		
Pidlite pegmatite	mica		1330 ± 1338 ±	
pegmatite	Santa Fe	3978800 471900	B=4.72x10 ⁻¹⁰ /yr ε=0.557x10 ⁻¹⁰ /yr	
Pidlite mine area	Santa Fe	paper	✓	
Aldrich et al., 1957				

COMMENTS:

1340 ± **	Rb-Sr	Sandoval	Placitas Quad	# 86
Sandia Mountains	isochron	35°15.92' 106°28.5'	UNM	
Sandia Granite	bi, whole-rock	12N 4E 13	1340 ±	Y
quartz monzonite	Albuquerque	3903250 365900	87=1.42x10 ⁻¹¹ /yr	
Cañon del Agua area	Albuquerque	paper	✓	
Brookins and Majumdar, 1982				
Brookins, 1982				

COMMENTS: Two-point mineral -- whole-rock isochron.

1340 ± **	Rb-Sr	Bernalillo	Sandia Crest Quad	# 87
Sandia Mountains	isochron	35°7.75' 106°28.8'	UNM	
Sandia Granite	bi, whole-rock	10N 4E 2	1340 ±	Y
quartz monzonite	Albuquerque	3888150 365100	87=1.42x10 ⁻¹¹ /yr	
Embudo Canyon area	Albuquerque	paper	✓	
Brookins and Majumdar, 1982				
Brookins, 1982				

COMMENTS: Two-point mineral -- whole-rock isochron.

1340 ± **	Rb-Sr	Sandoval	Placitas Quad	# 88
Sandia Mountains		35°21.7' 106°24.8'	Carnegie Institution	
Sandia Granite	mica	13N 5E 16	1340 ±	
granite	Albuquerque	3913900 371750		
3 mi N of Placitas	Albuquerque	paper	✓	
Aldrich et al., 1957				

COMMENTS:

1340 ± 20 **	K-Ar	Rio Arriba	La Madera Quad	# 89
Tusas Mountains		36°26.0' 106°03.0'	U. of Arizona	
Vadito Group	biotite	25N 8E 1	1340 ± 20	Y Y
hbl-chl-bi schist	Abiquiu	4032300 405900		
Ancones area	Aztec	paper	✓	
Gresens, 1975				

COMMENTS: Same sample as UAKA-71-23.

1342 ± 28 **	K-Ar	Bernalillo	Sandia Crest Quad	# 90
Sandia Mountains		35°12.95' 106°28.12'	U. of Arizona	
Sandia Granite	biotite	11N 4E 1	1334 ± 28 1342 ± 28	
orbicular granite	Albuquerque	3897750 366300	$\beta=4.76 \times 10^{-10}/\text{yr}$ $\epsilon=5.89 \times 10^{-11}/\text{yr}$	
Sandia Crest area	Albuquerque	paper	✓	
Brookins et al., 1975		Brookins, 1982		
Enz et al., 1979				
COMMENTS:				

1343 ± 27 **	K-Ar	Bernalillo	Sandia Crest Quad	# 91
Sandia Mountains		35°12.95' 106°28.12'	U. of Arizona	
Sandia Granite	biotite	11N 4E 1	1335 ± 27 1343 ± 27	
orbicular granite	Albuquerque	3897750 366300	$\beta=4.76 \times 10^{-10}/\text{yr}$ $\epsilon=5.89 \times 10^{-11}/\text{yr}$	
Sandia Crest area	Albuquerque	paper	✓	
Brookins et al., 1975		Brookins, 1982		
Enz et al., 1979				
COMMENTS:				

1343 ± 21 **	K-Ar	Rio Arriba	Las Tablas Quad	# 92
Tusas Mountains		36°35.0' 106°06.0'	U. of Arizona	
Vadito Group	biotite	27N 8E 9	1343 ± 21	Y Y
qtz-mu-bi schist	Chama	4049050 401600		
Kiowa Mountain area	Aztec	paper	✓	
Gresens, 1975				
COMMENTS:				

1346 ± **	Rb-Sr	Lincoln	Mockingbird Gap SE Quad	# 93
Oscura Mountains		33°33.43' 106°20.43'	U. of TX, Austin	
Mockingbird Gap pluton	whole-rock	9S 6E 5	1300 ± 1346 ±	
granite	Oscura Mountain	3713650 375600	$87=1.47 \times 10^{-11}/\text{yr}$	
S. Oscura Mountains	Tularosa	paper	✓	
Muehlberger et al., 1966				
Muehlberger and Denison, 1964				
COMMENTS:				

1348 ± **	Rb-Sr	Taos	Trampas Quad	# 94
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	whole-rock	23N 11E 29	1348 ±	
pegmatite spotted rock	Taos	4005425 428000	$87=1.42 \times 10^{-11}/\text{yr}$	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				
COMMENTS: Samples were collected and analyzed in late 1970s.				

1348 ± **	K-Ar	Chaves	Dexter East Quad	# 95
Pecos slope		33°7.5' 104°18.5'	U. of TX, Austin	
Continental No. 1 schist	muscovite	14S 26E 2	1340 ± 1348 ±	Y Y
musc schist	Roswell	3666000 564000	$\beta=4.72 \times 10^{-10}/\text{yr}$ $\epsilon=0.585 \times 10^{-10}/\text{yr}$	
Dexter area	Roswell	paper	Continental No. 1 Langford	
Muehlberger et al., 1966				
COMMENTS:				

1350 ± 104 **	Rb-Sr	Socorro	Cerro Montoso Quad	# 96
Los Pinos Mountains	isochron	34°20.5' 106°36.5'	UNM	
Sepultura granite	whole-rock	1,2N 3E	1350 ± 104	Y
granite	Socorro	3801000 352000	$87=1.42 \times 10^{-11}/\text{yr}$	
Bootleg Canyon area	Socorro	paper	✓	
Brookins et al., 1980				
Brookins, 1982				
COMMENTS: Isochron of 6 samples. Data are from Bolton, 1976. Shastri (1993) has shown that this is same pluton as Los Pinos granite, and recommends abandonment of the name Sepultura.				

1350 ±	**		Sandoval		Placitas Quad	# 97
Sandía Mountains		isochron	35°16'	106°28.9'	UNM	
Sandía Granite		bi, whole-rock	12N 4E 14		1350 ±	Y
quartz monzonite		Albuquerque	3903450	365250	87=1.42x10 ⁻¹¹ /yr	
Cañon del Agua area		Albuquerque	paper		✓	
Brookins and Majumdar, 1982						
Brookins and Majumdar, 1982b			Brookins, 1982			
COMMENTS: Two-point mineral -- whole-rock isochron.						
1350 ± 1	**	Ar-Ar	Colfax		Touch-Me-Not Mtn Quad	# 98
Cimarron Range		plateau	36°31.73'	105°12.19'	U. of Georgia	
Cimarron River tectonic unit		muscovite			1350 ± 1	Y Y
metarhyolite		Wheeler Peak	4042400	482000		
South of Horseshoe mine		Raton	paper		✓	
Grambling, J. A. and Dallmeyer, R. D., in press						
COMMENTS: Ridge 220 m NE of Fowler Pass shear zone, adjacent to banded ironstone.						
1352 ± 24	**	Rb-Sr	Mora		Truchas Peak Quad	# 99
S. Sangre de Cristo Mtns		min isochron	35°57'53.	105°38'40.	UNM	
Vadito Group		min. separates	20N 12E 15		1352 ± 24	Y Y
quartz-musc schist		Santa Fe	3980025	441900		
Truchas Peak area		Santa Fe	paper		✓	
Ward, 1990						
Ward, 1986						
COMMENTS:						
1353 ±	**	Rb-Sr	Taos		Trampas Quad	#100
Picuris Mountains		model	36°11.53'	105°47.67'	UNM	
Harding Pegmatite		lepidolite	23N 11E 29		1353 ±	
pegmatite replacement micas		Taos	4005425	428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper		✓	
Balestri and Brookins, 1985						
COMMENTS: Samples were collected and analyzed in late 1970s.						
1356 ± 20	**	Rb-Sr	Eddy		Red Bluff Draw Quad	#101
Delaware basin					Mobil, Dallas	
Humble No. 1 Huapache granit		biotite	23S 22E 35		1310 ± 20 1356 ± 20	
biotite granite		Carlsbad			87=1.47x10 ⁻¹¹ /yr	
Carlsbad area		Carlsbad	paper		Humble No. 1 Huapache	
Denison and Hetherington, 1969						
COMMENTS:						
1358 ±	**	K-Ar	Guadalupe		Bar Y Ranch Quad	#102
Great Plains Province			35°10.03'	104°41.82'	U. of TX, Austin	
Cities Service No. 1 granite		biotite	11N 21E 22		1350 ± 1358 ±	Y gn
granite		Conchas Lake	3891400	527600	B=4.72x10 ⁻¹⁰ /yr ε=0.585x10 ⁻¹⁰ /yr	
North of Santa Rosa		Santa Fe	paper		Cities Service No. 1 Driggers	
Muehlberger et al., 1966						
Callender et al., 1976						
COMMENTS:						
1358 ±	**	K-Ar	Socorro		Wrye Peak SW Quad	#103
Oscura Mountains			33°51.27'	106°23.95'	U. of TX, Austin	
Sun No. 1 Bingham State gran		biotite	5S 5E 23		1350 ± 1358 ±	Y Y
granitic gneiss		Oscura Mountain	3746700	370625	B=4.72x10 ⁻¹⁰ /yr ε=0.585x10 ⁻¹⁰ /yr	
North of Oscura Mountains		Tularosa	paper		Sun No. 1 Bingham State	
Muehlberger et al., 1966						
COMMENTS: From subsurface "central granite belt."						
1358 ±	**	K-Ar	Sandoval		Placitas Quad	#104
Sandía Mountains			35°21.7'	106°24.8'		
Sandía Granite		mica	13N 5E 16		1350 ± 1358 ±	
granite		Albuquerque	3913900	371750	B=4.72x10 ⁻¹⁰ /yr ε=0.557x10 ⁻¹⁰ /yr	
Placitas area		Albuquerque	paper		✓	
Aldrich et al., 1957						
COMMENTS:						

1361 ± 3	**	Ar-Ar	Valencia	Manzano Peak Quad	#105
Manzano Mountains		plateau	34°32.23' 106°29.15'	U. of Georgia	
Sevilleta Metarhyolite Fm		muscovite		1361 ± 3	Y Y
pelitic schist		Belen			
Pipe Canyon		Socorro	unpublished	✓	
Thompson et al., 1991					
Grambling, personal communication, 1992					
COMMENTS: Discordant spectra are interpreted to result from thermal overprint at 1000-1100 Ma of system that cooled through Ar retention temps at ~1340-1360 Ma. From 150 m E of sample G92:6, along N side of Pipe Canyon. From unretrograded aprt of S tectonometamorphic sequence. Total-Gas-Age = 1357±3 Ma.					

1362 ±	**	Rb-Sr	Taos	Trampas Quad	#106
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		mica	23N 11E 29	1362 ±	
pegmatite replacement micas		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1364 ± 27	**	Rb-Sr	Torrance	Pedernal Mountain Quad	#107
Pedernal Hills		isochron		UNM	
Pedernal metasediments		whole-rock		1364 ± 27	Y Y
quartzite and schist		Vaughn		87=1.42x10 ⁻¹¹ /yr	
Pedernal Mtn area		Fort Sumner	paper	✓	
Mukhopadhyay et al., 1975					
Brookins, 1982					
COMMENTS: Isochron of 4 quartzite and 6 schist samples. Location unknown.					

1365 ±	**	Rb-Sr	Rio Arriba	Truchas Quad	#108
S. Sangre de Cristo Mtns		model	36°00.27' 105°51.15'	UNM and UNC	
Embudo granite		whole-rock	21N 10E 35	1365 ±	
granite		Taos	3984600 423175	87=1.42x10 ⁻¹¹ /yr	
Cordova area		Raton	paper	✓	
Brookins et al., 1985					
Register and Brookins, 1979					
COMMENTS:					

1366 ±	**	Rb-Sr	Taos	Trampas Quad	#109
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		cleavelandite	23N 11E 29	1366 ±	
pegmatite cleavelandite-qtz		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1366 ± 2	**	Ar-Ar	Valencia	Manzano Peak Quad	#110
Manzano Mountains		plateau	34°30.85' 106°29.85'	U. of Georgia	
Sevilleta Metarhyolite Fm		muscovite		1366 ± 2	Y Y
pelitic schist		Belen			
Estadio Canyon		Socorro	unpublished	✓	
Grambling, personal communication, 1992					

COMMENTS: From 900 m W of Priest quartz monzonite, from unretrograded part of S tectonometamorphic sequence. Total-Gas-Age = 1357±3 Ma.

1368 ±	**	K-Ar	Lincoln	Mockingbird Gap SE Quad	#111
Oscura Mountains			33°33.43' 106°20.43'	U. of TX, Austin	
Oscura Pluton		muscovite	9S 6E 5 SE	1360 ± 1368 ±	
granite		Oscura Mountain	3713650 375600	β=4.72x10 ⁻¹⁰ /yr ε=0.585x10 ⁻¹⁰ /yr	
Mockingbird Gap area		Tularosa	paper	✓	
Muehlberger et al., 1966					

COMMENTS: Coarse-grained, two-mica granite.

1368 ±	**	K-Ar	Socorro	Wrye Peak SW Quad	#112
Oscura Mountains			33°51.27' 106°23.95'	USGS	
Sun No. 1 Bingham State gran		biotite	5S 5E 23	1360 ± 1368 ±	Y gn
granite gneiss		Oscura Mountain	3746700 370600		
North of Oscura Mountains		Tularosa	paper		Sun #1 Bingham State
Muehlberger and Denison, 1964					

COMMENTS: From subsurface "central granite belt."

1368 ± **	K-Ar	Doña Ana	Selden Canyon Quad	#113
San Diego Mountain		32°36' 106°58'	U. of TX, Austin	
Tonuco Mtn gneiss	biotite	20S 1W 5	1360 ± 1368 ± Y Y	
dioritic gneiss	White Sands	3608000 315500	β=4.72x10 ⁻¹⁰ /yr ε=0.585x10 ⁻¹⁰ /yr	
Tonuco Mountain area	Las Cruces	paper	✓	
Muehlberger et al., 1966				

COMMENTS: Approximate location.

1372 ± **	Rb-Sr	Santa Fe	Tesuque Quad	#114
S. Sangre de Cristo Mtns	model	35°50.73' 105°54.37'	UNM and UNC	
Embudo granite	whole-rock	19N 10E 29	1372 ±	
granite	Santa Fe	3967000 418200	87=1.42x10 ⁻¹¹ /yr	
Nambe Falls area	Santa Fe	paper	✓	
Brookins et al., 1985				
Register and Brookins, 1979				
COMMENTS:				

1375 ± **	Pb-Pb	Doña Ana	Kilbourne Hole Quad	#115
Kilbourne Hole	model 207/206	31°58'17" 106°57'45"	Carnegie Institution	
Kilbourne Hole xenolith	zircon	27S 1W 8	1375 ± gr	
gt granulite xenolith	El Paso	3538750 314600		
Kilbourne Hole area	El Paso	unpublished	✓	
Davis and Grew, 1978				

COMMENTS: Interpreted as minimum value for time of metamorphism. Zircons are rounded, unzoned, and highly discordant.

1380 ± 29 **	Rb-Sr	Socorro	Becker and Cerro Montoso Quad	#116
Los Pinos Mountains	isochron	34°22' 106°34'	UNM	
Los Pinos granite	whole-rock		1410 ± 30 1380 ± 29	
granite	Socorro	3803000 355000	87=1.39x10 ⁻¹¹ /yr	
Whiteface Mtn area	Socorro	thesis	✓	
Bolton, 1976				

COMMENTS: Isochron of 6 samples.

1380 ± **	Rb-Sr	Bernalillo	Tijeras Quad	#117
Sandia Mountains	isochron	35°3.83' 106°28.0'	Cal Tech	
Sandia Granite	whole-rock	10N 4E 25	1410 ± 1380 ±	
granite	Albuquerque	3880900 366250	87=1.39x10 ⁻¹¹ /yr	
Carnue area	Albuquerque	paper	✓	
Brookins, 1974c				
Wasserburg et al., 1965		Wasserburg and Steiger, 1967		
COMMENTS: Original dating by Wasserburg et al., 1965.				

1380 ± 30 **	Rb-Sr	Cibola	Post Office Flat Quad	#118
Zuni Mountains	isochron	35°10' 108°09'	UNM	
Post Office Flat metarhyolite	whole-rock	11N 12,1 19,2	1380 ± 30 Y Y	
metarhyolite	Zuni			
Post Office Flat area	Gallup	paper	✓	
Brookins et al., 1978				
Brookins, 1982		Brookins et al., 1977		
COMMENTS: Isochron of 5 samples. Approximate location.				

1380 ± 45 **	K-Ar	Grant	Bullard Peak Quad	#119
Big Burro Mountains		32°44.9' 108°33.1'	USGS	
Burro Mtn granodiorite	biotite	18S 17W 12	1380 ± 45	
granodiorite	Silver City	3625900 729400	β=4.962x10 ⁻¹⁰ /yr	
Bear Canyon area	Silver City	paper	✓	
Marvin et al., 1988				
Redlund, 1980				
COMMENTS:				

1382 ± **	Rb-Sr	Taos	Trampas Quad	#120
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	mica	23N 11E 29	1382 ±	
pegmatite replacement mica	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1384 ± 86 **	Rb-Sr	Mora	Pecos Falls Quad	#121
S. Sangre de Cristo Mtns	isochron	35°53'15. 105°32'38.	UNM	
Pecos Complex	whole-rock	19N 13E 8	1384 ± 86	Y Y
bi-plag schist	Santa Fe	3971500 447850		
Rio Mora area	Santa Fe	paper	✓	
Ward, 1990				
Ward, 1986				
COMMENTS: Samples are from 2-3 m of ductile thrust fault that marks Pecos Complex-Hondo Group contact.				
1384 ± 29 **	K-Ar	Bernalillo	Sandia Crest Quad	#122
Sandia Mountains		35°12.94' 106°29.29'	U. of Arizona	
Juan Tabo Series	muscovite	11N 4E 2	1376 ± 29 1384 ± 29	Y Y
metasedimentary rock	Albuquerque	3897075 364125	β=4.76x10 ⁻¹⁰ /yr ε=5.89x10 ⁻¹¹ /yr	
Rincon area	Albuquerque	paper	✓	
Brookins and Shafiqullah, 1974				
Brookins, 1982				
COMMENTS: Metasedimentary rock from contact aureole of Sandia Granite.				
1387 ± **	Rb-Sr	Chaves	Comanche Spring Quad	#123
Pecos slope			U. of TX, Austin	
De Kalb No. 1 Lewis granite	K-feldspar	10S 25E 13	1340 ± 1387 ±	
granite	Roswell		87=1.47x10 ⁻¹¹ /yr	
Bitter Lake area	Roswell	paper	De Kalb No. 1 Lewis	
Muehlberger et al., 1966				
COMMENTS:				
1388 ± **	K-Ar	Doña Ana	San Andres Peak Quad	#124
San Andres Mountains		32°41' 106°31.5'	U. of TX, Austin	
San Andres pluton	biotite	19S 4E 3	1380 ± 1388 ±	Y Y
granitic gneiss	White Sands	3617000 357000	β=4.72x10 ⁻¹⁰ /yr ε=0.585x10 ⁻¹⁰ /yr	
San Andres Peak area	Las Cruces	paper	✓	
Muehlberger et al., 1966				
COMMENTS:				
1392 ± 29 **	K-Ar	Bernalillo	Sandia Crest Quad	#125
Sandia Mountains		35°12.52' 106°29.52'	U. of Arizona	
Rincon pegmatite	muscovite	11N 4E 2	1384 ± 29 1392 ± 29	Y Y
pegmatite	Albuquerque	3897800 364550	β=4.76x10 ⁻¹⁰ /yr ε=5.89x10 ⁻¹¹ /yr	
Rincon area	Albuquerque	paper	✓	
Brookins and Shafiqullah, 1974				
COMMENTS: Pegmatite from metamorphic rocks near Sandia Granite.				
1394 ± 8 **	Ar-Ar	Colfax	Touch-Me-Not Mtn. Quad	#126
Cimarron Range	isotope correl.	36°30.63' 105°11.9'	U. of Georgia	
Eagle Nest tectonic unit	hornblende		1394 ± 8	Y Y
amphibolite	Wheeler Peak			
b/w Tolby and Clear creeks	Raton	paper	✓	
Grambling and Dallmeyer, in press, JMG				
COMMENTS: Retrograde hornblende. Within a thin lens of gneissic amphibolite, along contact between gneissic quartzite and quartzofeldspathic gneiss, 480 m SW of trace of Fowler Pass shear zone. Total-Gas-Age = 1413±8 Ma.				
1396 ± 172 **	Rb-Sr	Taos	Trampas Quad	#127
Picuris Mountains	isochron	36°12.07' 105°47.65'	UNM	
Harding Pegmatite	cleavelandite	23N 11E 29	1396 ± 172	
pegmatite cleavelandite-qtz	Taos	4005450 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1979				
COMMENTS: Isochron of 6 samples.				
1397 ± **	Rb-Sr	Lea	Buckeye Quad	#128
Delaware basin			U. of TX, Austin	
Socony Mobil No. 95 granite	whole-rock	17S 34E 26	1350 ± 1397 ±	
granite porphyry	Hobbs		87=1.47x10 ⁻¹¹ /yr	
Buckeye area	Hobbs	paper	Socony Mobil No. 95 State Bridges	
Muehlberger et al., 1966				
COMMENTS:				

1397 ±	**	Rb-Sr	Mora	Mogote Hills Quad	#129
Sierra Grande arch			35°53.6' 104°40.1'	U. of TX, Austin	
Shamrock No. 1 McArthur gran		K-feldspar	19N 21E 12	1350 ± 1397 ±	
granite		Roy	3972000 529950	87=1.47x10 ⁻¹¹ /yr	
Mogote Hills area		Santa Fe	paper	Shamrock No. 1 McArthur	
Muehlberger et al., 1966					
Callender et al., 1976					
COMMENTS:					
1397 ± 30	**	Rb-Sr	Eddy	Red Bluff Draw Quad	#130
Delaware basin				Mobil, Dallas	
Humble No. 1 Huapache granit		feldspar	23S 22E 35	1350 ± 30 1397 ± 30	
biotite granite		Carlsbad		87=1.47x10 ⁻¹¹ /yr	
Carlsbad area		Carlsbad	paper	Humble No. 1 Huapache	
Denison and Hetherington, 1969					
COMMENTS:					
1400 ± 59	**	Rb-Sr	Socorro	Cerro Montoso Quad	#131
Los Pinos Mountains		isochron	34°20.5' 106°36.5'	UNM	
Sepultura granite		whole-rock	1,2N 3E	1430 ± 60 1400 ± 59	Y
granite		Socorro	3801000 352000	87=1.39x10 ⁻¹¹ /yr	
Bootleg Canyon area		Socorro	thesis	✓	
Bolton, 1976					
COMMENTS: Isochron of 6 samples. Shastri (1993) has shown that this pluton is the same as the Los Pinos granite, and recommends abandonment of the term Sepultura.					
1400 ±	**	Rb-Sr	Taos	Peñasco, El Valle Quad	#132
Picuris Mountains		isochron			
Peñasco Quartz Monzonite		whole-rock		1400 ±	
quartz monzonite		Taos			
Rio Lucio area		Raton	paper		
Long, 1974					
Long, 1976					
COMMENTS: Data reinterpreted from Fullager and Shiver (1973). Isochron of 3 samples.					
1401 ± 2	**	Ar-Ar	Colfax	Touch-Me-Not Mtn Quad	#133
Cimarron Range		plateau	36°31.2' 105°11.43'	U. of Georgia	
Eagle Nest tectonic unit		hornblende		1401 ± 2	Y Y
amphibolite		Wheeler Peak			
West of Clear Creek		Raton	paper	✓	
Grambling and Dallmeyer, in press					
COMMENTS: Retrograde hornblende. From a continuous layer of amphibolite in quartzofeldspathic gneiss, 180 m W of ridge crest. Isotope correlation age = 1398±4 Ma. Total-Gas-Age = 1388±3 Ma.					
1402 ± 1	**	Ar-Ar	Sandoval	Sandia Crest Quad	#134
Sandia Mountains		plateau	35°12.69' 106°29.47'	U. of Georgia	
Sandia Granite		muscovite		1402 ± 1	
granite		Albuquerque			
Juan Tabo picnic area		Albuquerque	unpublished	✓	
Grambling, personal communication, 1992					
COMMENTS: NW edge of Sandia Granite, Juan Tabo picnic area. Total-Gas-Age = 1285±2 Ma.					
1406 ±	**	Rb-Sr	Taos	Trampas Quad	#135
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		cleavelandite	23N 11E 29	1406 ±	
pegmatite cleavelandite-qtz		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					
COMMENTS: Samples were collected and analyzed in late 1970s.					
1406 ±	**	Rb-Sr	Taos	Trampas Quad	#136
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		cleavelandite	23N 11E 29	1406 ±	
pegmatite cleavelandite-qtz		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					
COMMENTS: Samples were collected and analyzed in late 1970s.					

1407 ± 19 **	Rb-Sr	Sandoval	Sandia Crest Quad	#137
Sandia Mountains	isochron	35°14' 106°30'	UNM	
Juan Tabo pegmatites	whole-rock	12N 4E 27,3	1407 ± 19	
pegmatite and aplite	Albuquerque	3899500 363500		
Juan Tabo area	Albuquerque	paper	✓	
Brookins and Majumdar, 1989				

COMMENTS: 3 pegmatites and one aplite from deformed dikes cuttings across Juan Tabo Series.

1407 ± **	Rb-Sr	Taos	Carson Quad	#138
Picuris Mountains	model	36°15.85' 105°47.13'	UNM and UNC	
Glenwoody Fm pegmatite	whole-rock	24N 11E 32	1407 ±	
pegmatite	Taos	4013350 429475	87=1.42x10 ⁻¹¹ /yr	
Pilar area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: Pegmatite at Ortega Fm-Glenwoody Fm contact.

1407 ± **	Rb-Sr	Doña Ana	Seldon Canyon Quad	#139
San Diego Mountain		32°36' 106°58'	U. of TX, Austin	
San Diego Mtn gneiss	whole-rock	20S 1W 5	1360 ± 1407 ±	Y Y
dioritic gneiss	White Sands	3608000 315500	87=1.47x10 ⁻¹¹ /yr	
Tonuco Mtn area	Las Cruces	paper	✓	
Muehlberger et al., 1966				

COMMENTS: Approximate location.

1408 ± **	K-Ar	Sierra	Tip Top Canyon Quad	#140
San Andres Mountains		33°12.5' 106°35.5'	U. of TX, Austin	
Rhodes Canyon granodiorite	biotite	13S 4E 3	1400 ± 1408 ±	Y Y
granodioritic gneiss	Tularosa	3675000 351000	β=4.72x10 ⁻¹⁰ /yr ε=0.585x10 ⁻¹⁰ /yr	
Rhodes Canyon area	Tularosa	paper	✓	
Muehlberger et al., 1966				

COMMENTS: This unit is subdivided from Capitol Peak pluton of Condie and Budding (1979).

1410 ± 50 **	K-Ar	Grant	Redrock NE Quad	#141
Big Burro Mountains		32°42.0' 108°30.8'	USGS	
Bullard Peak Series	biotite	18S 16W 32	1410 ± 50	Y Y
sill-gt gneiss	Silver City	3620600 733100		
Bullard Peak area	Silver City	map	✓	
Hedlund, 1980 (reported as from R. F. Marvin, H. H. Mehnert, and V. M. Merritt, written commun.)				

COMMENTS:

1410 ± 50 **	K-Ar	Grant	Bullard Peak Quad	#142
Big Burro Mountains		32°42' 108°31'	USGS	
Bullard Peak Series	biotite	18S 16W 32	1410 ± 50	Y Y
gneiss	Silver City	3620600 732800	β=4.962x10 ⁻¹⁰ /yr	
Bullard Peak area	Silver City	paper	✓	
Marvin et al., 1988				

COMMENTS:

1412 ± **	Rb-Sr	Santa Fe	Tesuque Quad	#143
S. Sangre de Cristo Mtns	model	35°50.73' 105°54.37'	UNM and UNC	
Embudo granite	whole-rock	19N 10E 29	1412 ±	
granite	Santa Fe	3967000 418200	87=1.42x10 ⁻¹¹ /yr	
Nambe Falls area	Santa Fe	paper	✓	
Brookins et al., 1985				
Register and Brookins, 1979				

COMMENTS:

1413 ± **	Rb-Sr	Taos	Trampas Quad	#144
Picuris Mountains	model	36°12.93' 105°48.07'	UNM and UNC	
Rinconada Formation	whole-rock	23N 11E 20	1413 ±	Y Y
pelitic schist	Taos	4007950 428000	87=1.42x10 ⁻¹¹ /yr	
Copper Hill area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: From R2 schist.

1416 ± **	Rb-Sr	Taos	Trampas Quad	#145
Picuris Mountains	model	36°11.53' 105°47.67'	UNM and UNC	
Harding Pegmatite	whole-rock	23N 11E 29	1416 ±	
pegmatite	Taos	4005425 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: Fine-grained phase of pegmatite.

1416 ± 100 **	Rb-Sr	Torrance	Pedernal Mtn Quad	#146
Pedernal Hills		34°46.55' 105°40.6'	U. of British Columb	
Pedernal Mtn granite	whole-rock	6N 12E 4	1416 ± 100	Y Y
granite	Vaughn	3848200 438100		
Pedernal Mtn area	Fort Sumner	paper	✓	
Armstrong and Holcombe, 1982				

COMMENTS: Approximate locality. May be from Pedernal pluton (Condie and Budding, 1979), S of Pedernal Mtn.

1420 ± 117 **	Rb-Sr	Socorro	Magdalena Quad	#147
Magdalena Mountains	isochron	34°5' 107°10'	Miami Univ.	
Magdalena Granite	whole-rock	2,3S 3W	1450 ± 120 1420 ± 117	No
granite	Magdalena		87=1.39x10 ⁻¹¹ /yr	
Jordan Canyon area	Socorro	thesis	✓	
White, 1977				

COMMENTS: Isochron of 10 samples.

1422 ± **	Rb-Sr	Taos	Trampas Quad	#148
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	lepidolite	23N 11E 29	1422 ±	
pegmatite replacement micas	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1422 ± **	Rb-Sr	Taos	Carson Quad	#149
Picuris Mountains	model	36°16.02' 105°47.42'	UNM and UNC	
Glenwoody Fm pegmatite	whole-rock	24N 11E 32	1422 ±	
pegmatite	Taos	4013650 429025	87=1.42x10 ⁻¹¹ /yr	
Pilar area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: Pegmatite cutting metarhyolite.

1423 ± 2 **	Ar-Ar	Bernalillo	Tijeras Quad	#150
Sandia Mountains	plateau	35°4.95' 106°24.23'	U. of Georgia	
Cibola quartzite	muscovite		1423 ± 2	Y Y
muscovite quartzite	Albuquerque			
Seven Springs	Albuquerque	unpublished	✓	
Grambling, personal communication, 1992				

COMMENTS: From N-trending canyon 0.4 km NW of Seven Springs pulloff from US-66. Total-Gas-Age = 1410±2 Ma.

1424 ± **	Rb-Sr	Taos	Trampas Quad	#151
Picuris Mountains	model	36°14.79' 105°47.9'	UNM and UNC	
Rinconada Formation	whole-rock	23N 11E 8	1424 ±	Y Y
pelitic schist	Taos	4011400 428275	87=1.42x10 ⁻¹¹ /yr	
Pilar cliffs area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: From R2 schist.

1424 ± 30 **	K-Ar	Bernalillo	Sandia Crest Quad	#152
Sandia Mountains		35°12.52' 106°29.52'	U. of Arizona	
Rincon pegmatite	muscovite	11N 4E 2	1417 ± 30 1424 ± 30	Y Y
pegmatite	Albuquerque	3897800 364550	β=4.76x10 ⁻¹⁰ /yr ε=5.89x10 ⁻¹¹ /yr	
Rincon area	Albuquerque	paper	✓	
Brookins and Shafiqullah, 1975				
Brookins, 1982				

COMMENTS: Pegmatite from metamorphic rocks near Sandia Granite.

1425 ± 15 **	Rb-Sr	Rio Arriba	La Madera Quad	#153
Tusas Mountains	isochron		U. of TX, Austin	
Vadito Group	mu, whole-rock		1425 ± 15	Y Y
feld schist & pegmatite	Abiquiu			
Mesa Jarita area	Aztec	paper	✓	
Long, 1972				

COMMENTS: Isochron of 8 samples from 4 widely spaced localities. Combined whole-rock and mineral isochrons. Dating a metamorphic event, according to author.

1427 ± **	Rb-Sr	Taos	Trampas Quad	#154
Picuris Mountains	model	36°12.0' 105°51.02'	UNM and UNC	
Puntiagudo Granite Porphyry	whole-rock	23N 10E 26	1427 ±	Y Y
granite	Taos	4006425 423550	87=1.42x10-11/yr	
Cerro Puntiagudo area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1427 ±	U-Pb	Valencia	Manzano Peak Quad	#155
Manzano Mountains	concordia	34°31.2' 106°28.4'	M.I.T.	
Priest Quartz Monzonite	zircon		1427 ±	mi
quartz monzonite	Belen	3820300 364250		
Estadio Canyon area	Socorro	abstract	✓	
Bauer et al., 1992				

COMMENTS: 3 points. A fourth point is near-concordant inherited component at >1600 Ma.

1430 ± **	Rb-Sr	Taos	Carson Quad	#156
Picuris Mountains	model	36°15.85' 105°47.13'	UNM and UNC	
Glenwoody Fm pegmatite	whole-rock	24N 11E 32	1430 ±	
pegmatite	Taos	4013350 429475	87=1.42x10-11/yr	
Pilar area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: Pegmatite from Ortega Fm-Glenwoody Fm contact.

1430 ± **	Rb-Sr	Sierra	Salinas Peak Quad	#157
San Andres Mountains		33°18' 106°36'	USGS	
White Mine gneiss	whole-rock	12S 4E 3	1430 ±	Y Y
granodiorite gneiss	Tularosa			
White Mine area	Tularosa	paper	✓	
Muehlberger and Denison, 1964				

COMMENTS: This sample may be mislocated, no Precambrian is shown in this section, however, gneiss is shown 2 mi SE on Condie and Budding (1979) map.

1430 ± 20 **	Pb-Pb	Bernalillo	Tijeras Quad	#158
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	Carnegie Institution	
Sandia Granite	zircon	10N 4E 25	1430 ± 20	
quartz monzonite	Albuquerque	3880900 366250		
S. Sandia Mtns area	Albuquerque	paper	✓	
Steiger and Wasserburg, 1966				

COMMENTS: -120 +150 mesh

1430 ±	U-Pb	Colfax	Touch-Me-Not Mtn Quad	#159
Cimarron Range	concordia		M.I.T.	
Eagle Nest tectonic unit	monazite		1430 ±	Y Y
gt-plag gneiss	Wheeler Peak	4042000 480000		
Tolby Creek area	Raton	abstract	✓	
Grambling et al., 1992				

COMMENTS: Nearly concordant. Authors interpret age as time of cooling during extension.

1430 ±	U-Pb	Colfax	Touch-Me-Not Mtn Quad	#160
Cimarron Range	concordia		M.I.T.	
Eagle Nest tectonic unit	zircon		1430 ±	Y Y
gt-plag gneiss	Wheeler Peak	4042000 480000		
Tolby Creek area	Raton	abstract	✓	
Grambling et al., 1992				

COMMENTS: Nearly concordant. Authors interpret age as time of cooling during extension.

1435 ±	**	Rb-Sr	Taos	Trampas Quad	#161
Picuris Mountains		model	36°14.79' 105°47.9'	UNM and UNC	
Rinconada Formation		whole-rock	23N 11E 8	1435 ±	Y Y
pelitic schist		Taos	4011400 428275	87=1.42x10 ⁻¹¹ /yr	
Pilar cliffs area		Raton	paper	✓	
Brookins et al., 1985					

COMMENTS: From R2 schist.

1437 ±	**	Pb-Pb	Hidalgo	Gold Hill Quad	#162
Big Burro Mountains		model 207/206	32°27.8' 108°34.2'	USGS	
Burro Mtn granite		zircon	21S 17W 22	1437 ±	gn
granite		Lordsburg	3594170 728360		
Round Mtn area		Silver City	paper	✓	
Stacey and Hedlund, 1983					

COMMENTS: Near Co-op mine in Gold Hill mining district. Mesh -250.

1437 ±	**	Pb-Pb	Hidalgo	Gold Hill Quad	#163
Big Burro Mountains		model 207/206	32°27.8' 108°34.2'	USGS	
Burro Mtn granite		zircon	12S 17W 22	1437 ±	gn
granite		Silver City	3594170 728360		
Round Mtn area		Silver City	paper	✓	
Stacey and Hedlund, 1983					

COMMENTS: Near Co-op mine in Gold Hill mining district. Mesh -50 +100.

1438 ±	**	Rb-Sr	Taos	Trampas Quad	#164
Picuris Mountains		model	36°14.93' 105°48.97'	UNM and UNC	
Glenwoody Formation		whole-rock	23N 11E 6	1438 ±	Y Y
metarhyolite		Taos	4011650 426700	87=1.42x10 ⁻¹¹ /yr	
Pilar cliffs area		Raton	paper	✓	
Brookins et al., 1985					

COMMENTS:

1438 ± 5	**	Ar-Ar	Valencia	Manzano Peak Quad	#165
Manzano Mountains		isotope correl.	34°32.32' 106°29.47'	U. of Georgia	
Sevilleta Metarhyolite Fm		hornblende		1438 ± 5	Y Y
amphibolite		Belen			
Pipe Canyon area		Socorro	unpublished	✓	
Thompson et al., 1991					

Grambling, personal communication, 1992

COMMENTS: Isotope correlation age is 36/40 vs 39/40. Total-Gas-Age = 1449±3 Ma. From westernmost mafic layer exposed on N side of Pipe Canyon; unretrograded part of S tectonometamorphic sequence. Isotope correlation age is interpreted to be time sample cooled through about 500°C.

1439 ±	**	Rb-Sr	Luna	Gym Peak Quad	#166
Florida Mountains		model	32°1.49' 107°34.3'	UNM	
South Peak alkali granite		whole-rock	26S 7W 20	1470 ± 1439 ±	
alkali granite		Deming	3545900 257100	87=1.39x10 ⁻¹¹ /yr	
South Peak area		Las Cruces	paper	✓	
Brookins, 1974b					
Brookins and Corbitt, 1974					

COMMENTS:

1439 ± 30	**	Rb-Sr	Valencia, Torrance	Scholle, Manzano Peak Quad	#167
Manzano Mountains		isochron	34°30' 106°30'	UNM	
Priest Quartz Monzonite		whole-rock	3,4N 4,5E	1470 ± 30 1439 ± 30	
quartz monzonite		Belen and Socor		87=1.39x10 ⁻¹¹ /yr	
Estadio Canyon area		Socorro	thesis	✓	
Bolton, 1976					

COMMENTS: Isochron of 6 samples.

1439 ±	**	Rb-Sr	Bernalillo	Tijeras Quad	#168
Sandia Mountains		isochron	35°3.83' 106°25.0'	Cal Tech	
Sandia Granite aplite		muscovite	10N 4E 25	1470 ± 1439 ±	
aplite		Albuquerque	3880900 366250	87=1.39x10 ⁻¹¹ /yr	
Carnue area		Albuquerque	paper	✓	
Brookins, 1974c					
Steiger and Wasserburg, 1969					

COMMENTS: Data from Steiger and Wasserburg, 1969

1440 ± 30 **	Rb-Sr	Sandoval	Seven Springs Quad	#169
Jemez Mountains	isochron	35°53.03' 106°40.83'	UNM	
GT-2, EE-1, EE-2 dikes	whole-rock	19N 2E 13	1440 ± 30	Y Y
monzogranite dikes	Los Alamos	3972200 348300	87=1.42x10 ⁻¹¹ /yr	
Fenton Hill area	Albuquerque	paper		
Brookins and Laughlin, 1983				

COMMENTS: These data supercede Brookins and Laughlin, 1976. Isochron of 4 samples from GT-2, 1 sample from EE-1, and 4 samples from EE-2. Approximate locality.

1440 ± 40 **	Rb-Sr	Bernalillo	Sandia Crest Quad	#170
Sandia Mountains	isochron		UNM	
Sandia Granite	bi, whole-rock	11N 4E	1440 ± 40	Y
quartz monzonite	Albuquerque		87=1.42x10 ⁻¹¹ /yr	
Sandia Crest area	Albuquerque	paper	✓	
Brookins and Majumdar, 1982				
Brookins, 1982				

COMMENTS: Mineral--whole-rock isochron of 8 previous samples plus 3 whole-rock samples from Taggart and Brookins, 1975.

1440 ± 130 **	Rb-Sr	Taos, Rio Arriba	Trampas Quad	#171
Picuris Mountains	isochron	36°10.8' 105°48.5'	UNM and UNC	
Rana Quartz Monzonite	whole-rock	22,2 11E	1440 ± 130	Y Y
quartz monzonite	Taos	4004000 427000	87=1.42x10 ⁻¹¹ /yr	
S. of Harding mine	Raton	paper	✓	
Brookins et al., 1985				
Register and Brookins, 1979		Register, 1979		

COMMENTS: Isochron of 5 samples.

1440 ± 10 **	U-Pb	Cibola	Quad	#172
Zuni Mountains	concordia		Cal Tech	
Zuni unknown unit	zircon		1440 ± 10	
granite				
unknown area		unpublished		

Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.

COMMENTS: Location unknown. Includes foliated and unfoliated granites.

1441 ± **	Rb-Sr	Taos	Trampas Quad	#173
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	lepidolite	23N 11E 29	1441 ±	
pegmatite replacement micas	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1441 ± **	Rb-Sr	Taos	Trampas Quad	#174
Picuris Mountains	model	36°11.53' 105°47.67'	UNM and UNC	
Harding Pegmatite	K-feldspar	23N 11E 29	1441 ±	
pegmatite	Taos	4005425 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1444 ± **	Pb-Pb	Hidalgo	Gold Hill Quad	#175
Big Burro Mountains	model 207/206	32°27.8' 108°34.2'	USGS	
Burro Mtn granite	zircon	21S 17W 22	1444 ±	gn
granite	Lordsburg	3594170 728360		
Round Mtn area	Silver City	paper	✓	
Stacey and Hedlund, 1983				

COMMENTS: Near Co-op mine in Gold Hill mining district. Mesh -100 +150.

1445 ± 15	U-Pb	Hidalgo	Gold Hill Quad	#176
Big Burro Mountains	concordia	32°27.8' 108°34.2'	USGS	
Burro Mtn granite	zircon	21S 17W 22	1445 ± 15	gn
granite	Lordsburg	3594170 728360		
Round Mtn area	Silver City	paper	✓	
Stacey and Hedlund, 1983				
Hedlund, 1980 (map; age reported as 1445 ± 10		Delevaux and Stacey, 1980		

COMMENTS: Near Co-op mine in Gold Hill mining district. Also reported several Pb-Pb dates for various size fractions.

1448 ± **	U-Pb	Taos	Trampas Quad	#177
Picuris Mountains	model	36°11.5' 105°45.5'	U. of TX, Dallas	
Peñasco Quartz Monzonite	zircon	23N 11E 27	1448 ±	we
quartz monzonite	Taos	4005300 431800		
Harding mine area	Raton	thesis	✓	
Bell, 1985				
Bell and Nielsen, 1985				

COMMENTS: Age is based on one point, with lower intercept assigned at 55 Ma. Poorly constrained.

1449 ± **	Pb-Pb	Rio Arriba	Burned Mountain Quad	#178
Tusas Mountains	model 207/206	36°38'55" 106°08'36"	USGS	
Tusas Mtn granite	zircon	28N 7E 24 (1449 ±	fo
granite	Chama	4056300 397800		
Tusas Mountain area	Aztec	paper	✓	
Wobus and Hedge, 1982				

COMMENTS: Unabraded zircon. Abraded zircons give age of 1421 Ma. From adit 250 m S of Tusas Mtn summit.

1450 ± **	Rb-Sr	Bernalillo	Sandia Park Quad	#179
Sandia Mountains	model	35°11.25' 106°16.12'	USGS	
Monte Largo/Sandia schist	muscovite	11N 6E 11	1450 ±	Y Y
sillimanite schist	Albuquerque	3894400 384500	87=1.42x10 ⁻¹¹ /yr	
Monte Largo Hills area	Albuquerque	paper	✓	
Marvín et al., 1988				

COMMENTS:

1450 ± **	U-Pb	Socorro	Cerro Montoso Quad	#180
Los Pinos Mountains	concordia		M.I.T.	
Bootleg Canyon sequence	apatite		1450 ±	Y Y
amphibolite	Socorro			
Bootleg Canyon area	Socorro	thesis	✓	
Shastri, 1993				

COMMENTS: Equivalent to Sevilleta Formation. Metamorphic apatite. Two fractions of apatite plot above the concordia, near 1450 Ma, and are significantly younger than the zircon and sphene ages for the same rock. Interpreted as reheating event at ca. 1450 Ma. Apatites are colorless to yellow, hexagonal or anhedral fragments generally larger than 100 mesh.

1454 ± **	Rb-Sr	Taos	Trampas Quad	#181
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	muscovite	23N 11E 29	1454 ±	
pegmatite border zone	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1455 ± 20 **	Pb-Pb	Bernalillo	Tijeras Quad	#182
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	Carnegie Institution	
Sandia Granite	zircon	10N 4E 25	1455 ± 20	
quartz monzonite	Albuquerque	3880900 366250		
S. Sandia Mtns area	Albuquerque	paper	✓	
Steiger and Wasserburg, 1966				

COMMENTS: -150 +230 mesh.

1455 ± 20 **	Pb-Pb	Bernalillo	Tijeras Quad	#183
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	Carnegie Institution	
Sandia Granite	zircon	10N 4E 25	1455 ± 20	
quartz monzonite	Albuquerque	3880900 366250		
S. Sandia Mtns area	Albuquerque	paper	✓	
Steiger and Wasserburg, 1966				

COMMENTS: -230 mesh.

1457 ± **	Rb-Sr	Santa Fe	Cundiyo Quad	#184
S. Sangre de Cristo Mtns	model	35°58.85' 105°55.05'	UNM and UNC	
Embudo granite	whole-rock	20N 10E 7	1457 ±	
granite	Santa Fe	3982000 417300	87=1.42x10-11/yr	
Santa Cruz Res. area	Santa Fe	paper	✓	
Brookins et al., 1985				
Register and Brookins, 1979				
COMMENTS:				

1457 ± **	Rb-Sr	Taos	Trampas Quad	#185
Picuris Mountains	model	36°12.93' 105°48.07'	UNM and UNC	
Rinconada Formation	whole-rock	23N 11E 20	1457 ±	Y Y
pelitic schist	Taos	4007950 428000	87=1.42x10-11/yr	
Copper Hill area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: From R2 schist.

1460 ± **	Rb-Sr	Taos	Trampas Quad	#186
Picuris Mountains	model	36°11.33' 105°47.17'	UNM and UNC	
Vadito Group schist	whole-rock	23N 11E 32	1460 ±	Y Y
felsic schist	Taos	4004975 429325	87=1.42x10-11/yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1460 ± 20 **	Pb-Pb	Bernalillo	Tijeras Quad	#187
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	Carnegie Institution	
Sandia Granite	zircon	10N 4E 25	1460 ± 20	
quartz monzonite	Albuquerque	3880900 366250		
S. Sandia Mtns area	Albuquerque	paper	✓	
Steiger and Wasserburg, 1966				

COMMENTS: +325 mesh, magnetic.

1460 ± 20 **	Pb-Pb	Bernalillo	Tijeras Quad	#188
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	Carnegie Institution	
Sandia Granite	zircon	10N 4E 25	1460 ± 20	
quartz monzonite	Albuquerque	3880900 366250		
S. Sandia Mtns area	Albuquerque	paper	✓	
Steiger and Wasserburg, 1966				

COMMENTS: -150 +200 mesh.

1460 ± **	U-Pb	Taos	Trampas Quad	#189
Picuris Mountains	concordia		Cal Tech	
Peñasco Quartz Monzonite	zircon		1460 ±	
quartz monzonite	Taos			
unknown area	Raton	unpublished	✓	
Silver, L. T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.				

COMMENTS: Location unknown.

1460 ± 10 **	U-Pb	Rio Arriba	Gallina or Nacimiento Peak Quad	#190
Nacimiento Mountains	concordia		Cal Tech	
Joaquin quartz monzonite	zircon		1460 ± 10	
quartz monzonite	Abiquiu			
S. Nacimiento Mtns area	Aztec	unpublished		
Silver, L. T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.				

COMMENTS: Location unknown.

1462 ± 21 **	Rb-Sr	Taos	Tres Piedras Quad	#191
Tusas Mountains	isochron	36°39' 105°58.5'	Florida State	
Tres Piedras Granite	whole-rock	28N 9E 22	1493 ± 21 1462 ± 21 Y Y	
quartz monzonite gneiss	Wheeler Peak	4056350 413000	87=1.39x10 ⁻¹¹ /yr	
Tres Piedras area	Raton	thesis	✓	
Maxon, 1976a				
Maxon, 1976b				
COMMENTS: Isochron of 9 samples.				

1462 ± 67	U-Pb	Doña Ana	Bennet Mountain Quad	#192
San Andres Mountains	concordia	32°35'46" 106°27'53"	U. of TX, Dallas	
Mineral Hill Pluton	zircon	20S 5E 6	1462 ± 67	
granite	White Sands	3607800 362600	✓	
Mineral Hill area	Las Cruces	paper		
Roths, 1991				

COMMENTS: From Little San Nicolas Canyon. Rb-Sr whole-rock age from Mineral Hill granite reported by White (1977) is 1190 ± 161 Ma.

1464 ± 50 **	Rb-Sr	Santa Fe	Quad	#193
S. Sangre de Cristo Mtns	isochron		UNM	
Embudo granite	whole-rock		1464 ± 50	
granite	Santa Fe		✓	
Santa Fe range area	Santa Fe	paper		
Register and Brookins, 1979 - (from Fullager and Shiver, 1978, pers. commun.)				

COMMENTS: 8 point whole-rock isochron from widely spaced samples. Locations given in Brookins et al., 1985.

1465 ± 30 **	Pb-Pb	Sandoval	Seven Springs Quad	#194
Jemez Mountains	model 207/206	35°53' 106°41'	USGS	
GT-2 granodiorite	zircon	19N 3E 7	1465 ± 30	
granodiorite	Los Alamos	3972000 348000		
Fenton Hill area	Albuquerque	unpublished	GT-2 (LASL)	
Zartman, 1979				

COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of Pb (initial) assumed to be that of microcline corrected for 1.5 Ga in situ decay.

1467 ± 43 **	Rb-Sr	Rio Arriba	Burned Mountain Quad	#195
Tusas Mountains	isochron	36°42.3' 106°14'	UNM	
Hopewell Lake granite	whole-rock	29N 7E 31,3	1467 ± 43 Y Y	
granite	Chama	4062500 389500		
Hopewell Lake area	Aztec	thesis	✓	
Boadi, 1986				
Boadi et al., 1987				

COMMENTS: All samples were altered. Isochron of 7 samples.

1467 ± 35 **	Rb-Sr	Colfax	Touch-Me-Not-Mountain Quad	#196
Cimarron Range	isochron	36°30.5' 105°15.17'	UNM	
Eagle Nest felsic gneiss	whole-rock		1467 ± 35 Y Y	
granitic gneiss	Wheeler Peak	4040200 477350	87=1.42x10 ⁻¹¹ /yr	
Tolby Creek area	Raton	thesis	✓	
Leyenberger, 1983				

COMMENTS: Isochron of 5 samples. This unit was mapped by J.A. Grambling as granulite facies gneiss. Sample locations unknown, but probably between Tolby Creek and Eagle Nest Lake.

1469 ± 43 **	Rb-Sr	Rio Arriba	Las Tablas Quad	#197
Tusas Mountains	isochron	36°36.73' 106°04.2'	Florida State	
Tres Piedras Granite	whole-rock	28N 8E 35	1501 ± 44 1469 ± 43 Y Y	
quartz monzonite gneiss	Chama	4052200 404300	87=1.39x10 ⁻¹¹ /yr	
Tusas River Can area	Aztec	thesis	✓	
Maxon, 1976a				
Maxon, 1976b				

COMMENTS: Isochron of 5 samples.

1470 ± **	Pb-Pb	Bernalillo	Tijeras Quad	#198
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	U. CA, Santa Barbara	
Sandia Granite	sphene	10N 4E 25	1470 ±	
granite	Albuquerque	3880900 366200	238=1.537x10 ⁻¹⁰ 235=9.72x10 ⁻¹⁰	
S. Sandia Mtns area	Albuquerque	paper	✓	
Tilton and Grunefelder, 1968				
Brookins, 1974c				

COMMENTS: +325 mesh, magnetic.

1470 ± 20 **	Pb-Pb	Bernalillo	Tijeras Quad	#199
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	Carnegie Institution	
Sandia Granite	zircon	10N 4E 25	1470 ± 20	
quartz monzonite	Albuquerque	3880900 366250	238=1.537x10-10 235=9.72x10-10 232=4.9	
S. Sandia Mtns area	Albuquerque	paper	✓	
Steiger and Wasserburg, 1966				

COMMENTS: + 325 mesh, nonmagnetic.

1470 ± 20	Pb-Pb	Bernalillo	Tijeras Quad	#200
Sandia Mountains	model 207/206	35°03'50" 106°28'00"	Carnegie Institution	
Sandia Granite	zircon	10N 4E 25	1470 ± 20	
quartz monzonite	Albuquerque	3880900 366250	238=1.537x10-10 235=9.72x10-10 232=4.9	
S. Sandia Mtns area	Albuquerque	paper	✓	
Steiger and Wasserburg, 1966				

COMMENTS: + 325 mesh, nonmagnetic.

1471 ± 97 **	Rb-Sr	Torrance	Pedernal Mountain Quad	#201
Pedernal Hills	isochron		UNM	
Pedernal Mtn granite	whole-rock		1471 ± 97	
granite	Vaughn		87=1.42x10-11/yr	
Pedernal Mtn area	Fort Sumner	paper	✓	
Mukhopadhyay et al., 1975				
Brookins, 1982				

COMMENTS: Isochron of 3 porphyritic and 6 alkalic samples. Location unknown, but may be Pedernal pluton.

1472 ± 15 **	Rb-Sr	Bernalillo	Sandia Crest Quad	#202
Sandia Mountains	isochron	35°11' 106°28.5'	UNM	
Sandia Granite	whole-rock	11N 4E 12,1	1504 ± 15 1472 ± 15	
granite	Albuquerque	3894000 365500	87=1.39x10-11/yr	
Jaral Ranger Station	Albuquerque	paper	✓	
Taggart and Brookins, 1975				

COMMENTS: Isochron of 3 samples.

1475 ± **	Pb-Pb	Bernalillo	Quad	#203
Sandia Mountains	model 207/206		Carnegie Institution	
Sandia Granite	zircon		1475 ±	sl
granite			238=1.537x10-10/yr 235=9.72x10-10/yr	
unknown area		paper	✓	
Brookins, 1974				
Tilton et al., 1962				

COMMENTS: Data from Tilton et al., 1962. Same sample (A-26) as Aldrich et al., 1958. Zircons are clear, hyacinth, euhedral, zoned, dark inclusions, some cores, length/breadth = 2.5. Location unknown.

1476 ± **	Rb-Sr	Taos	Trampas Quad	#204
Picuris Mountains	model	36°11.53' 105°47.67'	UNM and UNC	
Harding Pegmatite	K-feldspar	23N 11E 29	1476 ±	
pegmatite	Taos	4005425 428600	87=1.42x10-11/yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1480 ± 90 **	Rb-Sr	Bernalillo	Tijeras Quad	#205
Sandia Mountains	isochron	35°04' 106°26.5'	UNM	
Sandia Granite	whole-rock	10N 5E 30	1480 ± 90	Y
granulitic xenoliths	Albuquerque	3881200 368400		
Carnue area	Albuquerque	paper	✓	
Brookins and Majumdar, 1989				

COMMENTS: Isochron of 4 samples.

1480 ± **	Rb-Sr	Socorro	Becker Quad	#206
Los Pinos Mountains			U. of TX, Austin	
Los Pinos granite	whole-rock	2N 3E 23	1430 ± 1480 ±	Y Y
granite gneiss	Socorro		87=1.47x10-11/yr	
unknown area	Socorro	paper	✓	
Muehlberger et al., 1966				

COMMENTS: Location unknown.

1480 ±	U-Pb	San Miguel	Rosilla Peak Quad	#207
S. Sangre de Cristo Mtns	concordia	35°42.55' 105°44.33'	U. of Kansas	
Macho Creek granite	zircon	17N 11E 11	1480 ±	
Macho Creek area	Santa Fe	3952100 433200		
Robertson and Condie, 1989 (age is reported as a pers. commun, 1984, S. Bowring)	Santa Fe	paper	✓	

COMMENTS: 0.5 km E of Picuris-Pecos fault on Macho Creek.

1480 ±	**	Pb-Pb	Bernalillo	Tijeras Quad	#208
Sandia Mountains		model 207/206	35°03'50" 106°28'00"	U. CA, Santa Barbara	
Sandia Granite		sphene	10N 4E 25	1480 ±	
granite		Albuquerque	3880900 366200	238=1.537x10-10 235=9.72x10-10	
S. Sandia Mtns area		Albuquerque	paper	✓	
Tilton and Grunenfelder, 1968					
Brookins, 1974c					

COMMENTS: +325 mesh, nonmagnetic.

1481 ±	**	Rb-Sr	Taos	Trampas Quad	#209
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		mica	23N 11E 29	1481 ±	
pegmatite replacement micas		Taos	4005425 428000	87=1.42x10-11/yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1485 ± 234	**	Rb-Sr	Socorro	Magdalena Quad	#210
Magdalena Mountains		isochron	34°5' 107°10'	Miami Univ.	
Garcia Canyon metagabbro		whole-rock	2,3S 3W	1517 ± 239 1485 ± 234 Y	
amphibolite		Magdalena		87=1.39x10-11/yr	
Garcia Canyon area		Socorro	thesis	✓	
White, 1977					

COMMENTS: Isochron of 6 samples.

1488 ± 42	**	Rb-Sr	Colfax	Touch-Me-Not Mountain Quad	#211
Cimarron Range		isochron	36°31.5' 105°14.5'	UNM	
Eagle Nest granite		whole-rock		1488 ± 42 Y Y	
granite		Wheeler Peak	4041500 478700	87=1.42x10-11/yr	
Tolby Creek area		Raton	thesis	✓	
Leyenberger, 1983					
Brookins and Leyenberger, 1981					

COMMENTS: Isochron of 4 samples. J. A. Grambling mapped this as granitic gneiss. Location of samples approximate.

1490 ±	**	Rb-Sr	Mora	Mora Quad	#212
S. Sangre de Cristo Mtns			35°57.3' 105°18.7'	Carnegie Institution	
Pidlite pegmatite		mica		1490 ±	
pegmatite		Santa Fe	3978800 471900		
Pidlite mine area		Santa Fe	paper	✓	
Aldrich et al., 1957					

COMMENTS:

1490 ± 90	**	Rb-Sr	Cibola	Post Office Flat Quad	#213
Zuni Mountains		Isochron	35°10' 108°09'	UNM	
Mirabel "aplite"		whole-rock	11N 12,1	1490 ± 90 Y Y	
granodiorite, granite, aplite		Zuni			
Post Office Flat area		Gallup	paper	✓	
Brookins and Della Valle, 1977					
Brookins, 1982					

COMMENTS: Isochron of 6 granodiorite and 6 granite-aplite samples.

1490 ±	**	Pb-Pb	Bernalillo	Quad	#214
Sandia Mountains		model 207/206		U. CA, Santa Barbara	
Sandia Granite		sphene		1490 ± sl	
granite		Albuquerque		238=1.537x10-10/yr 235=9.72x10-10/yr	
NE of Albuquerque		Albuquerque	paper	✓	
Brookins, 1974c					
Tilton and Grunenfelder, 1968					

COMMENTS: Data from Tilton and Grunenfelder (1968) and Aldrich et al. (1958). Sample from lower part of Sandia escarpment NE of Albuquerque.

1492 ± **	Rb-Sr	Santa Fe	Tesuque Quad	#215
S. Sangre de Cristo Mtns	model	35°47.0' 105°53.03'	UNM and UNC	
Embudo granite	whole-rock	18N 10E 16	1492 ±	
granite	Santa Fe	3960075 420100	87=1.42x10 ⁻¹¹ /yr	
Pacheco Canyon area	Santa Fe	paper	✓	
Brookins et al., 1985				
Register and Brookins, 1979				
COMMENTS:				

1493 ± 30 **	Rb-Sr	Torrance	Pedernal Mtn Quad	#216
Pedernal Hills		34°47.55' 105°40.63'	U. of British Columb	
M-2 metavolcanic	whole-rock	7N 12E 33	1493 ± 30	Y Y
metarhyodacite	Vaughn	3850050 438100		
Pedernal Mtn area	Fort Sumner	paper	✓	
Armstrong and Holcombe, 1982				

COMMENTS: Approximate locality.

1494 ± **	Rb-Sr	Taos	Trampas Quad	#217
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	muscovite	23N 11E 29	1494 ±	
pegmatite border zone	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1495 ± **	Rb-Sr	Taos	Trampas Quad	#218
Picuris Mountains	model	36°11.33' 105°47.17'	UNM and UNC	
Vadito Group schist	whole-rock	23N 11E 32	1495 ±	Y Y
felsic schist	Taos	4004975 429325	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1497 ± **	Rb-Sr	Taos	Trampas Quad	#219
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	cleavelandite	23N 11E 29	1497 ±	
pegmatite cleavelandite-qtz	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1500 ± 120 **	Rb-Sr	Sandoval	Seven Springs Quad	#220
Jemez Mountains	isochron	35°53.03' 106°40.83'	UNM	
GT-2 and EE-2 granodiorite	whole-rock	19N 2E 13	1500 ± 120	Y Y
biotite granodiorite	Los Alamos	3972200 348300	87=1.42x10 ⁻¹¹ /yr	
Fenton Hill area	Albuquerque	paper	GT-2 and EE-2	
Brookins and Laughlin, 1983				

COMMENTS: These data supercede Brookins and Laughlin, 1976. Isochron of 14 samples from GT-2 and 6 samples from EE-2. Approximate locality. Depth = 2588-2925 m.

1500 ± **	U-Pb	Hidalgo	Gold Hill Quad	#221
Big Burro Mountains	unknown	32°29.1' 108°34.0'	USGS	
Burro Mtn diabase	zircon	21S 17W 14	1500 ±	
diabase dike	Lordsburg	3596600 728570		
Round Mountain area	Silver City	paper	✓	
Stacey and Hedlund, 1983				

COMMENTS: Very little zircon in rock. Age is highly dependent on composition of common Pb correction. Diabase cuts 1445 Ma Burro Mountain granite. Gold Hill mining district. Includes 207/206, 206/238, 207/235 ages.

1500 ± 25 **	Pb-Pb	Sandoval	Seven Springs Quad	#222
Jemez Mountains	model 207/206	35°53' 106°41'	USGS	
GT-2 granodiorite	sphene	19N 2E 13	1500 ± 25	
granodiorite	Los Alamos	3972000 348000		
Fenton Hill area	Albuquerque	paper	GT-2 (LASL)	
Zartman, 1979				

COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of Pb (initial) assumed to be that of microcline corrected for 1.5 Ga in situ decay.

1501 ± **	Rb-Sr	Taos	Trampas Quad	#223
Picuris Mountains	model	36°11.33' 105°47.17'	UNM and UNC	
Vadito Group schist	whole-rock	23N 11E 32	1501 ±	Y Y
felsic schist	Taos	4004975 429325	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1502 ± **	Rb-Sr	Taos	Trampas Quad	#224
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	muscovite	23N 11E 29	1502 ±	
pegmatite border zone	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1505 ± **	Pb-Pb	Hidalgo	Gold Hill Quad	#225
Big Burro Mountains	model 207/206	32°29.1' 108°34.0'	USGS	
Burro Mtn diabase	zircon	21S 17W 14	1505 ±	
diabase dike	Lordsburg	3596600 728570		
Round Mountain area	Silver City	paper	✓	
Stacey and Hedlund, 1983				

COMMENTS: All mesh sizes.

1510 ± **	Rb-Sr	Taos	Trampas Quad	#226
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	muscovite	23N 11E 29	1510 ±	
pegmatite border zone	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: Samples were collected and analyzed in late 1970s.

1517 ± 49 **	Rb-Sr	Bernalillo	Sandia Crest Quad	#227
Sandia Mountains		35°12.95' 106°28.12'	UNM	
Sandia Granite	whole-rock	11N 4E 1	1550 ± 50 1517 ± 49	
orbicular granite	Albuquerque	3897750 366300	87=1.39x10 ⁻¹¹ /yr	
Sandia Crest area	Albuquerque	paper	✓	
Enz et al., 1979				
Brookins et al., 1975				

COMMENTS:

1518 ± 210 **	Pb-Pb	Sandoval	Seven Springs Quad	#228
Jemez Mountains	model 207/206	35°53' 106°41'	USGS	
GT-2 granodiorite	epidote	19N 3E 7	1518 ± 210	
granodiorite	Los Alamos	3972000 348000		
Fenton Hill area	Albuquerque	unpublished	GT-2 (LASL)	
Zartman, 1979				

COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of initial Pb assumed to be that of microcline corrected for 1.5 Ga in situ decay.

1520 ± **	Rb-Sr	Sandoval	Placitas Quad	#229
Sandia Mountains	model	35°16.27' 106°28.75'	USGS	
Juan Tabo Series	muscovite	12N 4E 13	1520 ±	Y Y
bi-musc gneiss	Albuquerque	3903900 365500	87=1.42x10 ⁻¹¹ /yr	
Cañon del Agua area	Albuquerque	paper	✓	
Marvin et al., 1988				

COMMENTS:

1520 ± 210 **	Pb-Pb	Sandoval	Seven Springs Quad	#230
Jemez Mountains	model 207/206	35°53' 106°41'	USGS	
GT-2 granodiorite	epidote	19N 3E 7	1520 ± 210	
granodiorite	Los Alamos	3972000 348000		
Fenton Hill area	Albuquerque	unpublished	GT-2 (LASL)	
Zartman, 1979				

COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of initial Pb assumed to be that of microcline corrected for 1.5 Ga in situ decay.

1527 ± 39 **	Rb-Sr	Torrance	Bosque Peak Quad	#231
Manzano Mountains	isochron	34°48' 106°25'	Miami Univ.	
Ojita granodiorite	whole-rock	7N 5E	1560 ± 39 1527 ± 39 Y Y	
biotite granodiorite	Belen	3852000 369000	87=1.39x10 ⁻¹¹ /yr	
Guadalupe Peak area	Socorro	paper	✓	
White, 1979				
White, 1978		White, 1977		

COMMENTS: Isochron of 10 samples.

1529 ± 42 **	Rb-Sr	Taos	Trampas Quad	#232
Picuris Mountains	isochron	36°12.07; 105°47.65'	UNM	
Harding Pegmatite	muscovite	23N 11E 29	1529 ± 42	
pegmatite wall-zone	105°47.65'	4005450 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1979				

COMMENTS:

1530 ± 120 **	Rb-Sr	Luna	South Peak Quad	#233
Florida Mountains	isochron	32°07' 107°37'	UNM	
Florida Mtns granite	whole-rock		1530 ± 120	
qtz monzonite-granodiorite	Deming	3550000 255000		
unknown area	Las Cruces	paper		
Brookins, 1980				

COMMENTS: Isochron of 8 samples. Location of samples unknown.

1534 ± **	Rb-Sr	Santa Fe	Tesuque Quad	#234
S. Sangre de Cristo Mtns	model	35°47.0' 105°53.03'	UNM and UNC	
Embudo granite	whole-rock	18N 10E 16	1534 ±	
granite	Santa Fe	3960075 420100	87=1.42x10 ⁻¹¹ /yr	
Pacheco Canyon area	Santa Fe	paper	✓	
Brookins et al., 1985				
Register and Brookins, 1979				

COMMENTS:

1542 ± **	Pb-Pb	Grant	Redrock NE Quad	#235
Big Burro Mountains	model 207/206	32°42.0' 108°30.8'	USGS	
Bullard Peak Series	zircon	18S 16W 32	1542 ±	Y Y
sill-gt gneiss	Silver City	3620600 733100		
Bullard Peak area	Silver City	paper	✓	
Stacey and Hedlund, 1983				

COMMENTS: -400 mesh. Blackhawk mining district.

1550 ± 130 **	Rb-Sr	Sandoval	Seven Springs Quad	#236
Jemez Mountains	isochron	35°53.03' 106°40.83'	UNM	
EE-2 monzogranite	whole-rock	19N 2E 13	1550 ± 130	Y Y
monzogranite gneiss	Los Alamos	3972200 348300	87=1.42x10 ⁻¹¹ /yr	
Fenton Hill area	Albuquerque	paper		
Brookins and Laughlin, 1983				

COMMENTS: These data supersede Brookins and Laughlin, 1976. Isochron of 9 samples. Approximate locality.

1550 ± 130 **	Rb-Sr	Taos	Trampas Quad	#237
Picuris Mountains	isochron	36°11' 105°48.6'	UNM and UNC	
Puntiagudo Granite Porphyry	whole-rock	23N 11E 31	1550 ± 130	Y Y
granite	Taos	4004700 427200	87=1.42x10 ⁻¹¹ /yr	
Cerro Arboles area	Raton	paper	✓	
Brookins et al., 1985				
Register, 1979		Register and Brookins, 1979		

COMMENTS: Isochron of 6 samples.

1550 ± 40	**	Rb-Sr	Rio Arriba	Burned Mountain Quad	#238
Tusas Mountains		isochron	36°39' 106°08.5'	USGS	
Tusas Mtn granite		whole-rock	28N 7E 24	1550 ± 40	
granite		Chama	4056350 398000		
Tusas Mountain area		Aztec	paper	✓	
Wobus and Hedge, 1982					

COMMENTS: Isochron of 4 samples. Paper also includes Pb-Pb model ages of granite at 1449 and 1421 Ma.

1550 ±	**	K-Ar	Hidalgo	Gold Hill Quad	#239
Big Burro Mountains			32°27.87' 108°34.25'	USGS	
Burro Mtn granite		biotite	21S 17W 23	1550 ±	Y gn
granite		Lordsburg	3594300 728450		
Round Mountain area		Silver City	paper	✓	
Hedlund, 1978a (cited as J. S. Stacey, 1977, written commun.)					

COMMENTS: U-Pb zircon age for this granite is 1445 ± 15 Ma (Stacey and Hedlund, 1983).

1550 ±	**	U-Pb	Grant	Redrock NE Quad	#240
Big Burro Mountains		2 pt concordia	32°42.0' 108°30.8'	USGS	
Bullard Peak Series		zircon	18S 16W 32	1550 ±	Y Y
sill-gt gneiss		Silver City	3620600 733100		
Bullard Peak area		Silver City	paper	✓	
Stacey and Hedlund, 1983					

Hedlund, 1980 (map; cites zircon date of 1560

COMMENTS: 2 fractions plot too closely together for meaningful intercepts. Includes 207/206, 206/238, 207/235 ages for 2 mesh sizes. Blackhawk mining district.

1554 ±	**	Pb-Pb	Luna	Capitol Dome Quad	#241
Florida Mountains		model 207/206	32°09'15" 107°39'11"	USGS	
Florida gneiss		zircon	25S 8W 3	1554 ±	Y Y
granitic gneiss		Deming	3560430 249720		
Capitol Dome area		Las Cruces	paper	✓	
Evans and Clemons, 1988					

COMMENTS: Interpreted as minimum age for emplacement. Mesh -100 +150.

1556 ±	**	Pb-Pb	Luna	Capitol Dome Quad	#242
Florida Mountains		model 207/206	32°09'15" 107°39'11"	USGS	
Florida gneiss		zircon	25S 8W 3	1556 ±	Y Y
granitic gneiss		Deming	3560430 249720		
Capitol Dome area		Las Cruces	paper	✓	
Evans and Clemons, 1988					

COMMENTS: Interpreted as minimum age for emplacement. Mesh -250 +325.

1559 ± 52	**	Rb-Sr	Socorro	Becker Quad	#243
Los Pinos Mountains		isochron	34°23.5' 106°33.0'	UNM	
Sevilleta Metarhyolite Fm		whole-rock	2N 4E 17,2	1559 ± 52	Y Y
metarhyolite		Socorro	3806000 357550	87=1.42x10 ⁻¹¹ /yr	
Pinon Canyon area		Socorro	paper	✓	
Brookins et al., 1980					

COMMENTS: Isochron of 4 metarhyolite and 1 amphibolite sample. Uses data of Bolton, 1976.

1565 ±	**	Rb-Sr	Taos	Trampas Quad	#244
Picuris Mountains		model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite		cleavelandite	23N 11E 29	1565 ±	
pegmatite cleavelandite-qtz		Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1567 ±	**	Pb-Pb	Grant	Redrock NE Quad	#245
Big Burro Mountains		model 207/206	32°42.0' 108°30.8'	USGS	
Bullard Peak Series		zircon	18S 16W 32	1567 ±	Y Y
sill-gt gneiss		Silver City	3620600 733100		
Bullard Peak area		Silver City	paper	✓	
Stacey and Hedlund, 1983					

COMMENTS: -250 +200 mesh. Blackhawk mining district.

1568 ± 91 **	Rb-Sr	Doña Ana	White Sands, Organ Quad	#246
San Andres Mountains	isochron		Miami Univ.	
Mineral Hill pluton	whole-rock	21S 4E 21,2	1602 ± 91 1568 ± 91	
quartz monzonite	Las Cruces		87=1.39x10 ⁻¹¹ /yr	
Mineral Hill area	Las Cruces	thesis	✓	
White, 1977				

COMMENTS: Isochron of 6 samples.

1569 ± 314 **	Rb-Sr	Valencia, Torrance	Scholle, Manzano Peak Quad	#247
Manzano Mountains	isochron	34°30' 106°30'	UNM	
Priest Quartz Monzonite	whole-rock	3,4N 4,5E	1569 ± 314	
quartz monzonite	Belen and Socor		87=1.42x10 ⁻¹¹ /yr	
Estadio Canyon area	Socorro	paper	✓	
Brookins et al., 1980				
Brookins, 1982				

COMMENTS: Isochron of 6 samples. Used data of Bolton, 1976.

1570 ± **	Pb-Pb	Luna	Capitol Dome Quad	#248
Florida Mountains	model 207/206	32°09'15" 107°39'11"	USGS	
Florida gneiss	zircon	25S 8W 3	1570 ±	Y Y
granitic gneiss	Deming	3560430 249720		
Capitol Dome area	Las Cruces	paper	✓	
Evans and Clemons, 1988				

COMMENTS: Interpreted as minimum age for emplacement. Mesh -150 +200.

1576 ± 72 **	Rb-Sr	Bernalillo	Tijeras Quad	#249
Sandia Mountains	isochron		UNM	
Cibola Gneiss	whole-rock	9,10 4,5E 1,20	1610 ± 73 1576 ± 72	Y Y
granite gneiss	Albuquerque		87=1.39x10 ⁻¹¹ /yr	
Tijeras Canyon area	Albuquerque	paper	✓	
Taggart and Brookins, 1975				
Brookins, 1982				

COMMENTS: Isochron of 7 samples.

1583 ± 220 **	Pb-Pb	Sandoval	Seven Springs Quad	#250
Jemez Mountains	model 207/206	35°53' 106°41'	USGS	
GT-2 granodiorite	epidote	19N 3E 7	1583 ± 220	
granodiorite	Los Alamos	3972000 348000		
Fenton Hill area	Albuquerque	unpublished	GT-2 (LASL)	
Zartman, 1979				

COMMENTS: From outside W rim of Valles Caldera, Fenton Hill. Isotopic composition of initial Pb assumed to be that of microcline corrected for 1.5 Ga in situ decay.

1584 ± **	Rb-Sr	Taos	Trampas Quad	#251
Picuris Mountains	model	36°14.93' 105°48.97'	UNM and UNC	
Glenwoody Formation	whole-rock	23N 11E 6	1584 ±	Y Y
metarhyolite	Taos	4011650 426700	87=1.42x10 ⁻¹¹ /yr	
Pilar cliffs area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1585 ± **	U-Pb	Taos	Costilla Quad	#252
Taos Range	concordia	36°53' 105°31'	U. of Kansas	
Urraca Ranch gneiss	zircon		1585 ±	Y Y
felsic gneiss	Wheeler Peak	4081400 454000		
Urraca Ranch area	Raton	unpublished	✓	
Bowring, S.A. (1982, personal communication)				
Lipman and Reed, 1989				

COMMENTS: On dirt road 2.8 km SE of Urraca Ranch. Lipman and Reed (1989)--"The significance of these ages is uncertain." According to S.A. Bowring (1992, personal communication) these may be metamorphic zircons. Uncertainty <10 Ma.

1598 ± **	Rb-Sr	Taos	Carson Quad	#253
Picuris Mountains	model	36°15.95' 105°47.23'	UNM and UNC	
Glenwoody Formation	whole-rock	24N 11E 32	1598 ±	Y Y
metarhyolite	Taos	4013550 429300	87=1.42x10 ⁻¹¹ /yr	
Pilar area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS:

1601 ± 239 **	Rb-Sr	Socorro		Becker and Cerro Montoso Quad	#254
Los Pinos Mountains	isochron	34°22'	106°34'	UNM	
Los Pinos granite	whole-rock			1601 ± 239	
granite	Socorro	3803000	355000	87=1.42x10 ⁻¹¹ /yr	
Whiteface Mtn area	Socorro	paper		✓	
Brookins et al., 1980					
Brookins, 1982					
COMMENTS: Isochron of 6 samples. Data are from Bolton, 1976.					

1608 ± **	Rb-Sr	Taos		Trampas Quad	#255
S. Sangre de Cristo Mtns	isochron	36°9.95'	105°48.82'	UNC	
Rana Quartz Monzonite	whole-rock	22N 11E 6		1642 ± 1608 ±	
aplite	Taos	4002450	426850	87=1.39x10 ⁻¹¹ /yr	
various areas	Raton	paper		✓	
Fullager and Shiver, 1973					

COMMENTS: Isochron of 2 samples of Rana qtz monzonite.

1608 ± **	Pb-Pb	Sierra		Kingston Quad	#256
Black Range	model 207/206	32°54.8'	107°42.4'	USGS	
Pickett Springs granite	zircon	16S 8W 18		1608 ±	
granophyre	Hatch	3644650	246850		
Kingston mining dist.	Las Cruces	paper		✓	
Stacey and Hedlund, 1983					

COMMENTS: +250 mesh.

1610 ± **	U-Pb	Luna		Capitol Dome Quad	#257
Florida Mountains	2 pt concordia	32°09'15"	107°39'11"	USGS	
Florida gneiss	zircon	25S 8W 3		1610 ±	Y Y
granitic gneiss	Deming	3560430	249720		
Capitol Dome area	Las Cruces	paper		✓	
Evans and Clemons, 1988					

COMMENTS: Interpreted as minimum age for emplacement. Based on 2 points. Discordant zircons.

1615 ± 15 **	Rb-Sr	Rio Arriba		Nacimiento Peak Quad	#258
San Pedro Mountains	isochron	36°1.5'	106°48'	USGS	
San Pedro quartz monzonite	whole-rock	21N 1E		1615 ± 15	Y Y
qtz diorite & qtz monzonite	Abiquiu			87=1.42x10 ⁻¹¹ /yr	
Nacimiento Pk area	Aztec	paper		✓	
Wobus and Hedge, 1980					

COMMENTS: Isochron of 7 samples. Woodward (1987) noted that this unit yielded U-Pb zircon age of 1730 ± 20 Ma (L.T. Silver, pers. comm., 1972).

1616 ± **	Rb-Sr	Taos		Trampas Quad	#259
Picuris Mountains	model	36°11.53'	105°47.67'	UNM	
Harding Pegmatite	lepidolite	23N 11E 29		1616 ±	
pegmatite replacement micas	Taos	4005425	428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper		✓	
Balestri and Brookins, 1985					

COMMENTS: Samples were collected and analyzed in late 1970s.

1620 ± 40 **	Rb-Sr	Sandoval		Seven Springs Quad	#260
Jemez Mountains	isochron	35°53.03'	106°40.83'	UNM	
GT-2 and EE-1 monzogranite	whole-rock	19N 2E 13		1620 ± 40	Y Y
monzogranitic gneiss	Los Alamos	3972200	348300	87=1.42x10 ⁻¹¹ /yr	
Fenton Hill area	Albuquerque	paper		GT-2 and EE-1	
Brookins and Laughlin, 1983					

COMMENTS: These data supercede Brookins and Laughlin, 1976. Isochron of 24 samples from GT-2 and 1 sample from EE-1. Approximate locality. Depth = 731 m to 2588 m.

1621 ± 27 **	Rb-Sr	Taos		Trampas, Peñasco, El Valle Quad	#261
S. Sangre de Cristo Mtns	isochron			UNC	
Embudo granite	whole-rock			1656 ± 27 1621 ± 27	
granite, aplite	Taos			87=1.39x10 ⁻¹¹ /yr	
various areas	Raton	paper		✓	
Fullager and Shiver, 1973					

COMMENTS: Isochron of 9 samples, including Rana qtz monzonite, Peñasco qtz monzonite, and "Embudo granite" from widely spaced areas.

1621 ± 15 **	U-Pb concordia zircon	Rio Arriba	Quad Florida State 1654 ± 15 1621 ± 15 Y gn 238=1.52x10 ⁻¹⁰ 235=9.72x10 ⁻¹⁰ ✓	#262
Tusas Mountains Tres Piedras Granite granite various areas Maxon, 1976a Maxon, 1976b COMMENTS: Upper intercept age is from 7 samples from 4 different localities in Taos and Rio Arriba counties.				
1625 ± **	Rb-Sr K-feldspar Oscuro Mountain Oscuro Mountain	Socorro 33°51.27' 106°23.95' 5S 5E 23 3746700 370625 paper	Wrye Peak SW Quad U. of TX, Austin 1570 ± 1625 ± Y Y 87=1.47x10 ⁻¹¹ /yr Sun No. 1 Bingham State	#263
Oscura Mountains Sun No. 1 Bingham State gneiss granite gneiss N of Oscura Mtns Muehlberger et al., 1966 Muehlberger and Denison, 1964 COMMENTS: From north of Oscura Mtns. Sample from part of subsurface "central granite belt."				
1625 ± 49 **	Rb-Sr isochron whole-rock Socorro Socorro	Socorro 34°23.5' 106°33.0' 2N 4E 17,2 3806000 357550 thesis	Becker Quad UNM 1660 ± 50 1625 ± 49 Y Y 87=1.39x10 ⁻¹¹ /yr ✓	#264
Los Pinos Mountains Sevilleta Metarhyolite Fm metarhyolite Pinon Canyon area Bolton, 1976 COMMENTS: Isochron of 4 metarhyolite and 1 amphibolite sample. Samples collected by K.C. Condie.				
1626 ± 17 **	Rb-Sr isochron whole-rock Chama Aztec	Rio Arriba 36°39.67' 106°06.23' 28N 8E 17 4057700 400750 thesis	Mule Canyon Quad Florida State 1661 ± 17 1626 ± 17 Y Y 87=1.39x10 ⁻¹¹ /yr ✓	#265
Tusas Mountains Tres Piedras Granite qtz monzonite gneiss Tusas Mtn area Maxon, 1976a Maxon, 1976b COMMENTS: Two point isochron. Maxon (1976b) lists Rb-Sr isochron age of 1491 Ma.				
1627 ± **	Rb-Sr model whole-rock Taos Raton	Taos 36°16.02' 105°47.42' 24N 11E 32 4013650 429025 paper	Carson Quad UNM and UNC 1627 ± Y Y 87=1.42x10 ⁻¹¹ /yr ✓	#266
Picuris Mountains Glenwoody Formation metarhyolite Pilar area Brookins et al., 1985 COMMENTS:				
1628 ± 19 **	Rb-Sr isochron whole-rock Taos Raton	Taos paper	Trampas, Peñasco, El Valle Quad UNC 1663 ± 19 1628 ± 19 87=1.39x10 ⁻¹¹ /yr ✓	#267
S. Sangre de Cristo Mtns Embudo granite granite, aplite various areas Fullager and Shiver, 1973 COMMENTS: Isochron of 7 samples, including Rana qtz monzonite, Peñasco qtz monzonite, and Embudo granite.				
1630 ± 250 **	Rb-Sr isochron whole-rock Santa Fe Santa Fe	Mora 35°53'16. 105°34'41. 19N 13E 8 3971500 447850 paper	Pecos Falls Quad UNM 1630 ± 250 Y Y ✓	#268
S. Sangre de Cristo Mtns Pecos Complex amphibolite Rio Valdez area Ward, 1990 Ward, 1986 COMMENTS:				
1630 ± **	U-Pb model zircon Taos Raton	Taos 36°11.75' 105°45.75' 23N 11E 27 4005750 431450 thesis	Trampas Quad U. of TX, Dallas 1630 ± Y fo ✓	#269
Picuris Mountains Cerro Alto Metadacite metadacite Harding mine area Bell, 1985 Bell and Nielsen, 1985 COMMENTS: Age is based on 1 point, with lower intercept assigned at 55 Ma. Poorly constrained age.				

1632 ± 24	U-Pb	Doña Ana	Gardner Peak Quad	#270
San Andres Mountains	concordia	32°51'07" 106°34'23"	U. of TX, Dallas	
Mayberry pluton	zircon	17S 4E 7	1632 ± 24	
quartz monzonite	White Sands	3635750 352700		
Gardner Peak area	Las Cruces	paper	✓	
Roths, 1991				

COMMENTS: Zircons are discordant.

1638 ± 40 **	Rb-Sr	Taos	Trampas, Peñasco, El Valle Quad	#271
S. Sangre de Cristo Mtns	isochron		UNC	
Embudo granite	whole-rock		1673 ± 41 1638 ± 40	
granite	Taos		87=1.39x10 ⁻¹¹ /yr	
various areas	Raton	paper	✓	
Fullager and Shiver, 1973				

COMMENTS: Isochron of 5 samples, including Rana qtz monzonite, Peñasco qtz monzonite, Embudo granite.

1640 ± 40 **	Rb-Sr	Sandoval	Placitas Quad	#272
Sandia Mountains	isochron	35°16' 106°29'	UNM	
Juan Tabo Series	whole-rock	12N 4E 13,1	1640 ± 40	Y Y
schist and amphibolite	Albuquerque	3903500 364000	87=1.42x10 ⁻¹¹ /yr	
Cañon del Agua area	Albuquerque	paper	✓	
Brookins and Majumdar, 1983				
Majumdar, 1985				
COMMENTS:				

1640 ± 230 **	Rb-Sr	Mora	Pecos Falls Quad	#273
S. Sangre de Cristo Mtns	isochron	35°52'49. 105°33'19.	UNM	
Pecos Complex	whole-rock	19N 13E 10	1640 ± 230	Y Y
amphibolite	Santa Fe	3970600 449875		
Rio Mora area	Santa Fe	paper	✓	
Ward, 1990				
Ward, 1986				
COMMENTS:				

1643 ± **	U-Pb	Taos	Costilla Quad	#274
Taos Range	concordia	36°53.5' 105°31.75'	U. of Kansas	
Jarosa Canyon gneiss	zircon		1643 ±	Y Y
felsic gneiss	Wheeler Peak	4082700 453000		
Urraca Ranch area	Raton	unpublished	✓	
Bowring, S. A., 1992, unpublished data.				
Lipman and Reed, 1989				
COMMENTS: In Jarosa Canyon, E of Urraca Ranch. Lipman and Reed (1989)--"The significance of these ages is uncertain." According to S.A. Bowring (1992, personal communication) these may be metamorphic zircons. Uncertainty <10 Ma.				

1644 ±	U-Pb	Taos	Latir Peak Quad	#275
Taos Range	concordia	36°51.5' 105°23.15'	U. of Kansas	
Costilla Ck qtz monzonite	zircon	30N 15E 1	1644 ±	Y gn
quartz monzonite	Wheeler Peak	4079100 465600		
Costilla Creek area	Raton	abstract	✓	
Bowring et al., 1984				
Reed, 1984				
COMMENTS: Along Costilla Creek, 1.4 km NW of junction with Latir Creek. Uncertainty <10 Ma.				

1647 ± **	Pb-Pb	Sierra	Kingston Quad	#276
Black Range	model 207/206	32°54.8' 107°42.4'	USGS	
Pickett Springs granite	zircon	16S 8W 18	1647 ±	
granophyre	Hatch	3644650 246850		
Kingston mining dist.	Las Cruces	paper	✓	
Stacey and Hedlund, 1983				

COMMENTS: -250 + 325 mesh.

1648 ± 3	U-Pb	Socorro	Lemitar Quad	#277
Lemitar Mountains	concordia	34°08' 106°59'	U. of Kansas	
Lemitar granite	zircon	2S 1W 18	1648 ± 3	Y gn
granite	Socorro	3778500 317000		
S. Lemitar Mtns area	Socorro	paper	✓	
Bowring et al., 1983				

COMMENTS:

1650 ± 10	U-Pb	Santa Fe	McClure Reservoir Quad	#278
S. Sangre de Cristo Mtns	concordia	35°42.0' 105°45.5'	U. of Kansas	
Dalton Canyon succession	zircon	17N 11E 15	1650 ± 10	Y Y
quartz porphyry	Santa Fe	3950500 431400		
Dalton Canyon area	Santa Fe	thesis	✓	
Fulp, M.S., 1982				
Bowring and Condie, 1982				
COMMENTS: This rock is continuous with qtz porph. reported in Renshaw (1984) at 1660 Ma in Wild Horse Canyon. Sample from W of Picuris-Pecos fault.				
1650 ±	U-Pb	San Miguel	Rosilla Peak Quad	#279
S. Sangre de Cristo Mtns	concordia	35°42.25' 105°41.0'	U. of Kansas	
Indian Creek granite	zircon	17N 12E 17	1650 ±	
granite	Santa Fe	3951200 438000		
Indian Creek area	Santa Fe	paper	✓	
Robertson and Condie, 1989 (age reported as pers. commun., 1984, S. A. Bowring)				
COMMENTS: Small pluton exposed along the Pecos River just below confluence with Indian Creek.				
1650 ± **	U-Pb	San Miguel	Rosilla Peak Quad	#280
S. Sangre de Cristo Mtns	concordia?	35°42.25' 105°41'	Cal Tech	
Indian Creek granite?	zircon	17N 12E 17		
granite	Santa Fe	3951200 438000		
Indian Creek area	Santa Fe	open-file	✓	
Stacey et al., 1977 (cited as L. T. Silver, unpub. data).				
COMMENTS: Reported as "relatively undeformed granites with ages of ~1650 m.y." Probably from area 3 mi S of Terrero.				
1650 ± **	U-Pb	Rio Arriba	Quad	#281
Tusas Mountains	concordia		Cal Tech	
Tres Piedras Granite	zircon		1650 ±	
granite				
unknown area		unpublished		
Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.				
COMMENTS: Type locality of Tres Piedras Granite. Exact location unknown.				
1650 ± 5 **	U-Pb	Cibola	Quad	#282
Zuni Mountains	concordia		Cal Tech	
Zuni unknown unit	zircon		1650 ± 5	Y Y
felsic schists				
unknown area		unpublished		
Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO				
COMMENTS: Location unknown.				
1653 ±	U-Pb	Socorro	Becker SW Quad	#283
Los Pinos Mountains	concordia		M.I.T.	
Los Pinos granite	zircon		1653 ±	Y Y
granite	Socorro			
Sepultura Canyon area	Socorro	thesis	✓	
Shastri, 1993				
COMMENTS: Fractions yielded minimum ages ranging from 1630-1653 Ma. Euhedral, honey-colored to colorless zircons. Short, stubby grains with Length:Width=1.5:1. Previously called Sepultura granite.				
1654 ± 23 **	Rb-Sr	Rio Arriba	Lagunitas Creek Quad	#284
Tusas Mountains	isochron	36°48' 106°18'	USGS	
Rio Brazos trondhjemite	whole-rock		1690 ± 24 1654 ± 23	Y Y
trondhjemite	Chama	4075000 384000	87=1.39x10 ⁻¹¹ /yr	
Rio Brazos area	Aztec	paper	✓	
Barker et al., 1974				
COMMENTS: Isochron of 6 widely separated samples.				
1654 ± 1	U-Pb	Socorro	Magdalena Quad	#285
Magdalena Mountains	concordia	34°04'34" 107°10'06"	U. of Kansas	
Magdalena Granite	zircon	3S 3W 5	1654 ± 1	No
granite	Magdalena	3772450 299900		
Jordan Canyon area	Socorro	paper	✓	
Bowring et al., 1983				
COMMENTS: Granite and fine-grained border facies are undeformed; country rock (ca. 1664 Ma) is highly deformed.				

1655 ± **	Rb-Sr	Taos	Trampas Quad	#286
Picuris Mountains	model	36°11.53' 105°47.67'	UNM and UNC	
Harding Pegmatite	whole-rock	23N 11E 29	1655 ±	
pegmatite	Taos	4005425 428600	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Brookins et al., 1985				

COMMENTS: Fine-grained phase of pegmatite.

1655 ± 15 **	U-Pb	Sierra	Kingston Quad	#287
Black Range	concordia	32°54'18" 107°42.4'	USGS	
Pickett Springs granite	zircon	16S 8W 18	1655 ± 15	
granophyre	Hatch	3644650 246850		
Kingston mining dist.	Las Cruces	paper	✓	
Stacey and Hedlund, 1983				

COMMENTS: Includes 2 sets of Pb/Pb and U/Pb ages as well as upper intercept age.

1655 ±	U-Pb	Cibola	Quad	#288
Zuni Mountains	concordia		U. of Kansas	
Zuni felsic metavolcanics	zircon		1655 ±	Y Y
felsic schist	Zuni			
unknown area	Gallup	abstract	✓	
Bowring and Condie, 1982				

COMMENTS:

1655 ±	U-Pb	Cibola	Quad	#289
Zuni Mountains	concordia		U. of Kansas	
Zuni granite	zircon		1655 ±	fo
granite	Zuni			
unknown area	Gallup	abstract		
Bowring and Condie, 1982				

COMMENTS:

1655 ± 3	U-Pb	Socorro	Cerro Montoso Quad	#290
Los Pinos Mountains	concordia		M.I.T.	
Los Pinos granite	zircon		1655 ± 3	Y Y
granite	Socorro			
Bootleg Canyon area	Socorro	thesis	✓	
Shastri, 1993				

COMMENTS: Euhedral, honey-colored to colorless zircon. Long, slender grains with Length:Width=2-5:1.

1656 ±	U-Pb	Valencia	Capilla Peak Quad	#291
Manzano Mountains	concordia	34°37.5' 106°29.5'	M.I.T.	
Monte Largo Granodiorite	zircon		1656 ±	Y st
granodiorite	Belen	3833000 363200		
Monte Largo Can area	Socorro	abstract	✓	
Bauer et al., 1992				

COMMENTS: 3 points.

1658 ± 12	U-Pb	Socorro	Cerro Montoso Quad	#292
Los Pinos Mountains	concordia		M.I.T.	
Bootleg Canyon aplite	zircon		1658 ± 12	
aplite dike	Socorro			
Bootleg Canyon area	Socorro	thesis	✓	
Shastri, 1993				

COMMENTS: Dike is oriented parallel to S2, and cuts across older sheared dikes which are parallel to S1. Zircons have long, slender habit; Length:Width=5:2; typically clear and light pink. Four fractions. Dike is within Bootleg Canyon sequence (or Sevilleta Formation).

1659 ± 3	U-Pb	Socorro	Indian Well Wilderness Quad	#293
Chupadera Mountains	concordia	33°47'38" 106°58'49"	U. of Kansas	
Chupadera granite	zircon	6S 1W	1659 ± 3	
granite	Oscura Mountain	3740850 316600		
S. Chupadera area	Tularosa	paper	✓	
Bowring et al., 1983				

COMMENTS: This area was called the Coyote Hills by Condie and Budding (1979).

1660 ± 10	U-Pb	Santa Fe	McClure Reservoir Quad	#294
S. Sangre de Cristo Mtns	concordia	35°40.5' 105°45.5'	U. of Kansas	
Dalton Canyon succession	zircon	17N 11E 27	1660 ± 10	Y Y
quartz porphyry	Santa Fe	3948000 431300		
Wild Horse Can area	Santa Fe	thesis	✓	
Renshaw, 1984				

COMMENTS: This qtz porphyry is contiguous with qtz porph. reported by Fulp (1982) at ca. 1650 Ma in Dalton Canyon area. Sample from W of Picuris-Pecos fault.

1660 ± 2	U-Pb	Socorro	Cerro Montoso Quad	#295
Los Pinos Mountains	concordia		M.I.T.	
Bootleg Canyon sequence	zircon		1660 ± 2	Y Y
amphibolite	Socorro			
Bootleg Canyon area	Socorro	thesis	✓	
Shastri, 1993				

COMMENTS: Metamorphic zircon. Four populations were separated; all plot on the same regression line. Sample taken 30 m from granitic dike

1660 ± **	U-Pb	Socorro	Cerro Montoso Quad	#296
Los Pinos Mountains	concordia		M.I.T.	
Bootleg Canyon sequence	sphene		1660 ±	Y Y
amphibolite	Socorro			
Bootleg Canyon area	Socorro	thesis	✓	
Shastri, 1993				

COMMENTS: Metamorphic sphene. Two fractions of sphene yielded fairly discordant minimum ages. One fraction plotted on the 1660 Ma zircon regression line, the other plots as a slightly discordant minimum age of 1620 Ma. Interpreted as metamorphism at ca. 1660 Ma. Sphene is light, coke bottle green of anhedral fragments larger than 100 mesh.

1662 ± 1	U-Pb	Socorro	Cerro Montoso Quad	#297
Los Pinos Mountains	concordia		M.I.T.	
Sevilleta Metarhyolite Fm	zircon		1662 ± 1	Y Y
felsic schist	Socorro			
Montosa Draw area	Socorro	thesis	✓	
Shastri, 1993				

COMMENTS: Sample contained abundant, long, slender fragments of igneous zircon. Length/Width=3/1. Clear pink to honey color, with some inclusions. Four points.

1664 ± 3	U-Pb	Socorro	Magdalena Quad	#298
Magdalena Mountains	concordia	34°2'52" 107°10'32"	U. of Kansas	
North Baldy metarhyolite	zircon	3S 3W 17	1664 ± 3	Y Y
metarhyolite	Magdalena	3769350 299200		
North Baldy area	Socorro	paper	✓	
Bowring et al., 1983				

COMMENTS:

1664 ± 3	U-Pb	Socorro	Magdalena Quad	#299
Magdalena Mountains	concordia	34°02'54" 107°07'52"	U. of Kansas	
Shakespeare Can metarhyolite	zircon	3S 3W 14	1664 ± 3	Y Y
felsic schist	Magdalena	3769400 303300		
Shakespeare Can area	Socorro	paper	✓	
Bowring et al., 1983				

COMMENTS:

1666 ± **	Rb-Sr	Guadalupe	Bar Y Ranch Quad	#300
Tucumcari basin		35°10' 104°41.8'	U. of TX, Austin	
Cities Service No. 1 granite	whole-rock	11N 21E 22	1610 ± 1666 ±	Y
granite	Conchas Lake	3891400 527600	87=1.47x10 ⁻¹¹ /yr	
Bar Y dome area	Santa Fe	paper	Cities Service No. 1 Driggers	
Muehlberger et al., 1966				
Callender et al., 1976				

COMMENTS:

1668 ± **	Pb-Pb	Taos	Carson Quad	#301
Picuris Mountains	model 207/206	36°15.23' 105°48.82'	Florida State	
Ortega Formation	zircon	23N 11E 6	1668 ±	Y Y
quartzite	Taos	4012200 426900	238=1.54x10-10	235=9.72x10-10
Pilar area	Raton	thesis	✓	
Maxon, 1976				

COMMENTS: Detrital zircon populations.

1673 ± 41 **	Rb-Sr	Taos	Trampas Quad	#302
Picuris Mountains	isochron			
Rana Quartz Monzonite	whole-rock		1673 ± 41	Y Y
quartz monzonite	Taos			
Harding mine area	Raton	paper		
Long, 1974				
Long, 1976				

COMMENTS: Data reinterpreted from Fullager and Shiver, 1973. Isochron of 4 samples.

1674 ± 5	U-Pb	Taos	Trampas Quad	#303
Picuris Mountains	concordia	36°11' 105°47.75'	U. of TX, Dallas	
Rana Quartz Monzonite	zircon	23N 11E 32	1674 ± 5	Y fo
quartz monzonite	Taos	4004400 428450	✓	
Harding mine area	Raton	thesis		
Bell, 1985				
Bell and Nielson, 1985				

COMMENTS: Lower intercept at 64 ± 14 Ma.

1678 ±	U-Pb	Taos	Cerro Quad	#304
Taos Range	concordia	36°49.75' 105°31.95'	U. of Kansas	
Jaracito Canyon granodiorite	zircon	30N 13E 15	1678 ±	Y st
granodiorite	Wheeler Peak	4075850 452500	✓	
Urraca Ranch area	Raton	abstract		
Bowring et al., 1984				
Reed, 1984		Lipman and Reed, 1989		

COMMENTS: Along Latir Creek, 1.4 km E of gaging station. Uncertainty <10 Ma.

1680 ±	U-Pb	Taos	Tres Ritos Quad	#305
Picuris Mountains	concordia	36°9.5' 105°35.5'	Washington Univ.	
Rio Pueblo Schist	zircon	22N 13E 7	1680 ±	Y Y
feldspathic schist	Taos	4001500 446500	✓	
Comales Campground	Raton	unpublished		
Bauer and Bowring, 1989, unpublished data				

COMMENTS: Preliminary age. Protolith of rock is uncertain; may be felsic volcanic or plutonic.

1680 ± **	U-Pb	Torrance	Capilla Peak Quad	#306
Manzano Mountains	concordia	34°41.0' 106°24'	U. of Kansas	
Sevilleta Metarhyolite Fm	zircon			Y Y
feldspathic schist	Belen	3839000 371000	✓	
S. of Capilla Peak	Socorro	paper		
Bowring et al., 1983 (reported by Bowring and Condie, unpublished data).				
McKee and Condie, 1986				

COMMENTS: Poorly constrained age. Sample taken from outcrop on road to Capilla Peak from Sevilleta metarhyolite of Reiche (1949). Approximate location.

1684 ± 1	U-Pb	Taos	Trampas Quad	#307
Picuris Mountains	concordia	36°12.07' 105°49.42'	U. of TX, Dallas	
Puntiagudo Granite Porphyry	zircon	23N 10E 25	1684 ± 1	Y fo
granite	Taos	4006400 425950	✓	
Harding mine area	Raton	thesis		
Bell, 1985				
Bell and Nielsen, 1985				

COMMENTS: Lower intercept at 48 ± 2 Ma.

1688 ± 33 **	Rb-Sr	Rio Arriba	Lagunitas Creek Quad	#308
Tusas Mountains	isochron	36°48' 106°18'	USGS	
Rio Brazos trondhjemite	whole-rock		1724 ± 34 1688 ± 33	Y Y
trondhjemite & hornblendite	Chama	4075000 384000	87=1.39x10-11/yr	
Rio Brazos area	Aztec	paper	✓	
Barker et al., 1974				

COMMENTS: Isochron of 6 samples plus 2 hornblendites.

1689 ±	U-Pb	Taos	Arroyo Seco Quad	#309
Taos Range	concordia	36°32.53' 105°33.45'	U. of Kansas	
Hondo Canyon granodiorite	zircon	27N 13E 28	1689 ±	Y fo
granodiorite	Wheeler Peak	4044050 450100		
Hondo Canyon area	Raton	paper	✓	
Reed, 1984				
Lipman and Reed, 1989				
COMMENTS: From small, unmapped granodiorite body in amphibolite along road in Hondo Canyon. May be coeval with Jaracito Canyon granodiorite (1678 Ma). Age is from S.A. Bowring, 1984, unpublished data.				
1691 ±	U-Pb	Mora	Truchas Peaks Quad	#310
S. Sangre de Cristo Mtns	concordia	35°54.6' 105°42.0'	Washington Univ.	
Pecos Baldy quartz porphyry	zircon		1691 ±	
qtz-feld porphyry	Santa Fe	3974000 437000		
Pecos Baldy area	Santa Fe	paper	✓	
Grambling et al., 1988 (cited as pers. comm., S. A. Bowring, 1984).				
Grambling and Williams, 1985				
COMMENTS: Poorly exposed Hondo Group rocks appear to be intruded by this felsic porphyry stock.				
1692 ± 2 **	Ar-Ar	Colfax	Touch-Me-Not Mtn Quad	#311
Cimarron Range	plateau	36°32.25' 105°10.2'	U. of Georgia	
Clear Creek quartz-diorite	hornblende		1692 ± 2	
quartz-diorite	Wheeler Peak	4043100 485000		
W. of Palisades area	Raton	paper	✓	
Grambling and Dallmeyer, in press, JMG				
COMMENTS: From 140 m E of contact with Cimarron River granitic pluton. Cimarron River tectonic unit. Isotope correlation age = 1678±4 Ma. Total-gas Age = 1668±3 Ma.				
1699 ±	U-Pb	Taos	Wheeler Peak Quad	#312
Taos Range	concordia	36°36.6' 105°23'	U. of Kansas	
Frazier Mtn qtz monzonite	zircon	27N 15E 6	1699 ±	Y Y
quartz monzonite	Wheeler Peak	4051450 465750		
Wheeler Peak area	Raton	abstract	✓	
Bowring et al., 1984				
Reed, 1984				
Lipman and Reed, 1989				
COMMENTS: E fork of Red River. Lipman and Reed (1989) correlated this rock with the quartz monzonite of Old Mike Peak. Uncertainty <10 Ma.				
1700 ± **	U-Pb	Taos	Carson Quad	#313
Picuris Mountains	concordia		Cal Tech	
Glenwoody Formation	zircon		1700 ±	Y Y
metarhyolite	Taos			
Pilar cliffs area	Raton	unpublished		
Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.				
COMMENTS: Reported as preliminary age. Exact location unknown.				
1700 ± **	U-Pb	Taos	Trampas Quad	#314
Picuris Mountains	concordia		Cal Tech	
Rana Quartz Monzonite	zircon		1700 ±	Y Y
quartz monzonite	Taos			
unknown area	Raton	unpublished	✓	
Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.				
COMMENTS: Location unknown.				
1700 ± **	U-Pb	Taos	Trampas Quad	#315
Picuris Mountains	concordia		Cal Tech	
Puntiagudo Granite Porphyry	zircon		1700 ±	Y Y
granite	Taos			
unknown area	Raton	unpublished	✓	
Silver, L. T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.				
COMMENTS: Location unknown.				
1700 ± **	U-Pb	Rio Arriba	Cañon Plaza Quad	#316
Tusas Mountains	concordia	36°34.33' 106°9.0'	Cal Tech	
Burned Mtn Formation	zircon	27N 7E 14	1700 ±	Y Y
metarhyolite	Chama	4047900 396900		
Burned Mountain area	Aztec	unpublished	✓	
Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.				
COMMENTS: Exact location unknown. Barker and Friedman (1974) originally reported a 1750-1800 Ma age for Burned Mountain Formation from L. T. Silver, 1974, oral communication.				

1700 ±	**	U-Pb	Rio Arriba	Cañon Plaza Quad	#317
Tusas Mountains		concordia		Cal Tech	
Burned Mtn Formation ?		zircon	27N 7E	1700 ±	Y Y
feldspathic schist		Chama			
Canada del Oso area		Aztec	unpublished		

Silver, L. T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.

COMMENTS: Exact location unknown, but probably represents Vadito Group metarhyolite, perhaps Burned Mountain Formation.

1700 ± 5	**	U-Pb	Rio Arriba	Gallina or Nacimiento Peak Quad	#318
San Pedro Mountains		concordia		Cal Tech	
Zuni unknown unit		zircon		1700 ± 5	
metarhyolite, granite		Abiquiu			
San Pedro Peaks area		Aztec	unpublished		

Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.

COMMENTS: Location unknown. Includes granites and metarhyolites.

1708 ±	**	Rb-Sr	Taos	Carson Quad	#319
Picuris Mountains		model	36°15.95' 105°47.23'	UNM and UNC	
Glenwoody Formation		whole-rock	24N 11E 32	1708 ±	Y Y
metarhyolite		Taos	4013550 429300	87=1.42x10 ⁻¹¹ /yr	
Pilar area		Raton	paper	✓	

Brookins et al., 1985

COMMENTS:

1710 ±	**	Pb-Pb	San Miguel	Cowles Quad	#320
S. Sangre de Cristo Mtns		model 207/206	35°46' 105°40'	USGS	
Pecos mine orebody		galena	18N 12E 22	1710 ±	Y Y
felsic schist		Santa Fe	3958500 439500	238=15.5x10 ⁻¹¹ 235=98.5x10 ⁻¹¹	
Pecos mine area		Santa Fe	paper	✓	

Stacey et al., 1977

COMMENTS: Isochron model ages are computed from the model of Stacey and Kramers (1975). This rock was called "Torrero" by Stacey et al., 1977.

1713 ±	**	Pb-Pb	Taos	Arroyo Seco Quad	#321
Taos Range		model 207/206	36°37'27" 105°34'12"	USGS	
San Cristobal quartzite		zircon	28N 13E 32	1713 ±	Y Y
quartzite		Wheeler Peak	4053150 449000		
San Cristobal Can area		Raton	abstract	✓	

Aleinikoff et al., 1985
Lipman and Reed, 1989 (locations)

COMMENTS: Detrital zircon population #2. Light pink and euhedral. Interpretation = age of volcanoclastic input during sedimentation.

1718 ± 5		U-Pb	San Miguel	Rosilla Peak Quad	#322
S. Sangre de Cristo Mtns		concordia	35°42' 105°41.25'	U. of Kansas	
Windy Bridge tonalite		zircon	17N 12E 20	1718 ± 5	
tonalite		Santa Fe	3950000 437700		
Macho Creek area		Santa Fe	paper	✓	

Robertson and Condie, 1989 (age reported as Bowring and Condie, 1982 and S. A. Bowring, pers. commun., 1987)
Bowring and Condie, 1982

COMMENTS: On Pecos River, 2 km N of mouth of Macho Creek.

1720 ± 15		U-Pb	Santa Fe	Rosilla Peak Quad	#323
S. Sangre de Cristo Mtns		concordia	35°44.00 105°43.75	U. of Kansas	
Jones rhyolite complex		zircon	17N 11E 1	1720 ± 15	
quartz-eye porphyry		Santa Fe	3954100 434000		
Jones mine area		Santa Fe	paper	x	

Bowring and Condie, 1982
Robertson and Condie, 1989 (age reported as fr

COMMENTS: Near Jones mine.

1720 ±	U-Pb	Taos		Comanche Point Quad	#324
Taos Range	concordia	36°50'	105°19'	Washington Univ.	
Comanche Point feld. schist	zircon			1720 ±	Y Y
feldspathic schist	Wheeler Peak	4077000	472000		
Comanche Point area	Raton	unpublished		✓	
Grambling and Bowring, 1988, unpublished data.					

COMMENTS: Sample is from metarhyolite that sits structurally beneath crossbedded quartzite. Maybe Vadito Group equivalent? Mapped by Moench et al., 1988 as "Xgq?". Sample was processed at Washington Univ. by M. Williams and P. Bauer.

1720 ±	**	Pb-Pb	San Miguel	Rosilla Peak Quad	#325
S. Sangre de Cristo Mtns		model 207/206	35°43'	USGS	
Tres Lagunas metavolcanics		galena	17N 12E 8	1720 ±	Y Y
felsic metavolcanic		Santa Fe	3952750 438000	238=15.5x10-11 235=98.5x10-11	
Tres Lagunas area		Santa Fe	paper	✓	
Stacey et al., 1977					

COMMENTS: Isochron model ages are computed from the model of Stacey and Kramers (1975). Called "Jones" by Stacey et al.; may be part of Jones rhyolite complex.

1720 ± 5		U-Pb	San Juan	Quad	#326
Shiprock		concordia		Cal Tech	
Shiprock xenoliths		zircon		1720 ± 5	Y Y
gneiss, schist, granite					
unknown area		Shiprock	unpublished	✓	
Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.					

COMMENTS: Location unknown.

1727 ±	**	Pb-Pb	Taos	Carson Quad	#327
Picuris Mountains		model 207/206	36°16'	Florida State	
Ortega Formation		zircon	24N 11E 32	1727 ±	Y Y
quartzite		Taos	4013450 428700	238=1.54x10-10 235=9.72x10-10	
Pilar area		Raton	thesis	✓	
Maxon, 1976					

COMMENTS: Detrital zircon populations.

1730 ± 110	**	Rb-Sr	Mora	Truchas Peak Quad	#328
S. Sangre de Cristo Mtns		isochron		UNM	
Vadito Group amphibolite		whole-rock	20N 12E 14,1	1730 ± 110	Y Y
amphibolite		Santa Fe			
Truchas Peak area		Santa Fe	paper	✓	
Ward, 1990					
Ward, 1986					

COMMENTS:

1730 ± 130	**	U-Pb	Doña Ana	Bennett Mountain Quad	#329
San Andres Mountains		concordia	32°36'04" 106°27'57"	U. of TX, Dallas	
Little San Nicolas gneiss		zircon	20S 5E 6	1730 ± 130	Y Y
gt gneiss		White Sands	3607260 362500		
Bennett Mountain area		Las Cruces	paper	✓	
Roths, 1991					

COMMENTS: Zircons are metamict and highly discordant. Sm-Nd whole-rock of same sample has model age of 1810 Ma.

1730 ±		U-Pb	Taos	Questa Quad	#330
Taos Range		concordia	36°39.63' 105°34.75'	U. of Kansas	
Columbine Ck qtz monzonite		zircon	28N 13E 17	1730 ±	Y gn
quartz monzonite		Wheeler Peak	4057200 448250		
Questa area		Raton	abstract	✓	
Bowring et al., 1984					
Reed, 1984					

COMMENTS: 5.2 km S16°E of Questa. Uncertainty <10 Ma. Lipman and Reed, 1989

1730 ± 20	**	U-Pb	Rio Arriba	Nacimiento Peak Quad	#331
San Pedro Mountains		concordia		Cal Tech	
San Pedro quartz monzonite		zircon	21N 1E	1730 ± 20	Y sh
quartz monzonite		Abiquiu			
unknown area		Aztec	unpublished		
Woodward, 1987 - cited as L. T. Silver, personal communication, 1972.					

COMMENTS: Location unknown, but probably from Nacimiento Peak area.

1739 ±	**	Rb-Sr	Taos	Trampas Quad	#332
Picuris Mountains		model	36°11.33' 105°47.17'	UNM and UNC	
Vadito Group schist		whole-rock	23N 11E 32	1739 ±	Y Y
felsic schist		Taos	4004975 429325	87=1.42x10 ⁻¹¹ /yr	
Harding mine area		Raton	paper	✓	
Brookins et al., 1985					

COMMENTS:

1741 ±		U-Pb	Taos	Red River Quad	#333
Taos Range		concordia	36°38.15' 105°28.1'	U. of Kansas	
Gold Hill metadiorite		zircon	28N 14E 29	1741 ±	am Y
metadiorite		Wheeler Peak	4054350 458200		
Gold Hill area		Raton	paper	✓	
Bowring et al., 1984					
Reed, 1984					
COMMENTS: Sill W of Gold Hill. Lipman and Reed (1989)--"...interpreted as the emplacement age." Uncertainty <10 Ma.					

1750 ±		U-Pb	Taos	Red River Quad	#334
Taos Range		concordia	36°36.1' 105°24.65'	U. of Kansas	
Red River tonalite		zircon	27N 14E 2	1750 ±	Y fo
dioritic plutons		Wheeler Peak	4050550 463250		
Wheeler Peak area		Raton	abstract	✓	
Bowring and Condie, 1982					
Reed, 1984					
COMMENTS: Reported as tonalite in Reed, 1984. NE of Frazier Mtn, along road to Middle Fork Lake. Uncertainty <10 Ma.					

1755 ±	**	U-Pb	Rio Arriba	Quad	#335
Tusas Mountains		concordia		Cal Tech	
Ortega Formation		zircon		1755 ±	Y Y
quartzite					
unknown area			unpublished		
Silver, L. T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.					
COMMENTS: All detrital fractions yielded ages less than 1755 Ma. Locations unknown.					

1755 ±		U-Pb	Rio Arriba	Quad	#336
Tusas Mountains		concordia		Cal Tech	
Maquinita Granodiorite		zircon		1755 ±	Y Y
granodiorite		Chama			
Burned Mtn area?		Aztec	unpublished	✓	
Silver, L.T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.					
COMMENTS: Location unknown. Intrusive into Moppin Complex.					

1765 ±	**	Pb-Pb	Taos	Carson Quad	#337
Picuris Mountains		model 207/206	36°16' 105°47.65'	Florida State	
Ortega Formation		zircon	24N 11E 32	1765 ± 1765 ±	Y Y
quartzite		Taos	4013450 428700	238=1.54x10 ⁻¹⁰ 235=9.72x10 ⁻¹⁰	
Pilar area		Raton	thesis	✓	
Maxon, 1976					

COMMENTS: Detrital zircon populations.

1765 ±		U-Pb	Taos	Red River Quad	#338
Taos Range		concordia	36°39.0' 105°26.23'	U. of Kansas	
Gold Hill Complex		zircon	28N 14E 22	1765 ±	Y Y
felsic metavolcanics		Wheeler Peak	4055950 460900		
Gold Hill area		Raton	unpublished	✓	
Bowring, S. A., 1992, personal communication					
Lipman and Reed, 1989					
COMMENTS: NE of Gold Hill. Called "layered gneiss sequence" in Reed (1984). In Bowring et al. (1984) and Reed (1984) this rock was reported to have a preliminary age of 1750 Ma. Uncertainty less than 10 Ma.					

1769 ±	**	Pb-Pb	Taos	Carson Quad	#339
Picuris Mountains		model 207/206	36°15.23' 105°48.82'	Florida State	
Ortega Formation		zircon	23N 11E 6	1769 ±	Y Y
quartzite		Taos	4012200 426900	238=1.54x10-10	235=9.72x10-10
Pilar area		Raton	thesis	✓	
Maxon, 1976					

COMMENTS: Detrital zircon populations.

1775 ±	**	Pb-Pb	Taos	Arroyo Seco Quad	#340
Taos Range		model 207/206	36°37'27" 105°34'12"	USGS	
San Cristobal quartzite		zircon	28N 13E 32	1775 ±	Y Y
quartzite		Wheeler Peak	54053150 449000		
San Cristobal Can area		Raton	abstract	✓	

Aleinikoff et al., 1985

Lipman and Reed, 1989 (sample locations)

COMMENTS: Detrital zircon population #1. Dark pink and round. Interpretation = age of source terrane for quartzose sediments.

1780 ±	**	U-Pb	Taos	Carson Quad	#341
Picuris Mountains		concordia		Cal Tech	
Ortega Formation		zircon		1780 ±	Y Y
quartzite		Taos			
Pilar cliffs area		Raton	unpublished	✓	
Silver, L. T., 1984, oral presentation at GSA Rocky Mountain section meeting, Durango, CO.					

COMMENTS: Exact location unknown. Reported ages between 1780-1750 Ma for detrital zircon populations.

1793 ± 21	**	U-Pb	Taos	Carson Quad	#342
Picuris Mountains		concordia	36°15.5" 105°48'	Florida State	
Ortega Formation		zircon	23N 11E	1830 ± 21	1793 ± 21
quartzite		Taos		238=1.54x10-10	235=9.72x10-10
Pilar area		Raton	thesis	✓	
Maxon, 1976					

COMMENTS: Upper intercept age is from 4 detrital samples from 2 localities. Also reports 207/206, 207/235, 206/238 ages for each of 4 samples.

1800 ± 50	**	Rb-Sr	Rio Arriba	Nacimiento Peak or Regina Quad	#343
Nacimiento Mountains		isochron		UNM	
San Pedro metovolcanics		whole-rock		1800 ± 50	Y Y
quartz latite		Abiquiu			
N. Nacimiento Mtns		Aztec	paper	✓	
Brookins, 1974a - (from Brookins and McLelland, unpub.)					

COMMENTS: Preliminary age of 6 samples. Location unknown.

1830 ± 170	**	Rb-Sr	Sandoval	Seven Springs Quad	#344
Jemez Mountains		isochron	35°54.1' 106°40.5'	UNM	
GT-1 amphibolite		whole-rock	19N 2E 1	1830 ± 170	Y Y
granite-veined amphibolite		Los Alamos	3974050 348850		
Fenton Hill area		Albuquerque	abstract	GR-1 (LANL)	
Brookins and Laughlin, 1976					

COMMENTS: Isochron of 10 samples. Approximate location.

1840 ± 170	**	Rb-Sr	Rio Arriba	Regina Quad	#345
Nacimiento Mountains		isochron		UNM	
San Pedro leucogranodiorite		whole-rock		1840 ± 170	Y Y
gneissic granodiorite		Abiquiu			
N. Nacimiento Mtns		Aztec	paper	✓	
Brookins, 1974a - (from Brookins and McLelland, unpub.)					

COMMENTS: Isochron of 4 samples. Location unknown.

1890 ± 100	**	Rb-Sr	Doña Ana	Kilbourne Hole Quad	#346
Kilbourne Hole		isochron	31°58.29' 106°57.75'	UNM	
Kilbourne Hole xenolith		whole-rock	27S 1W 8	1890 ± 100	Y Y
gneiss, gt & charnockite gra		El Paso	3538750 314600	87=1.42x10-11/yr	
Kilbourne Hole area		El Paso	paper	✓	
Abitz et al., 1987					

COMMENTS: Isochron of 4 samples.

1899 ± **	Rb-Sr	Taos	Trampas Quad	#347
Picuris Mountains	model	36°11.53' 105°47.67'	UNM	
Harding Pegmatite	cleavelandite	23N 11E 29	1899 ±	
pegmatite cleavelandite-qtz	Taos	4005425 428000	87=1.42x10 ⁻¹¹ /yr	
Harding mine area	Raton	paper	✓	
Balestri and Brookins, 1985				

COMMENTS: This age is anomalously old, authors do not discuss. Samples were collected and analyzed in late 1970s.

1920 ± 180 **	Rb-Sr	Sandoval	Seven Springs Quad	#348
Jemez Mountains	isochron	35°54.07' 106°40.5'	UNM	
GT-1 amphibolite	whole-rock	19N 2E 1	1920 ± 180	Y Y
amphibolite	Los Alamos	3974050 348850	87=1.42x10 ⁻¹¹ /yr	
Fenton Hill area	Albuquerque	paper		
Brookins and Laughlin, 1983				

COMMENTS: These data supersede Brookins and Laughlin, 1976. 8 samples analyzed do not fulfill whole-rock criteria.

1990 ± 260 **	Rb-Sr	Doña Ana	Kilbourne Hole Quad	#349
Kilbourne Hole	isochron	31°58.29' 106°57.75'	UNM	
Kilbourne Hole xenolith	whole-rock	27S 1W 8	1990 ± 260	Y Y
gt & charnockite granulite	El Paso	3538750 314600	87=1.42x10 ⁻¹¹ /yr	
Kilbourne Hole area	El Paso	paper	✓	
Abitz et al., 1987				

COMMENTS: Isochron of 3 samples

2040 ± 190 **	Rb-Sr	Doña Ana	Kilbourne Hole Quad	#350
Kilbourne Hole	isochron	31°58.29' 106°57.75'	UNM	
Kilbourne Hole xenolith	whole-rock	27S 1W 8	2040 ± 190	Y Y
fel gneiss, charnockite gran	El Paso	3538750 314600	87=1.42 x 10 ⁻¹¹ /yr	
Kilbourne Hole area	El Paso	paper	✓	
Abitz et al., 1987				

COMMENTS: Isochron of 5 samples.

PART III**List of isotopic age determinations by mountain range**MOUNTAIN RANGE

<u>AGE (**)</u>	<u>METHOD</u>	<u>MATERIAL</u>	<u>UNIT NAME</u>	<u>ROCK TYPE</u>	<u>RECORD #</u>
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** = significance of age is uncertain

Big Burro Mountains

950 ±	**	K-Ar	biotite	Hombrook Mtn granite	granite	# 8
1270 ±	**	Rb-Sr	biotite	Burro Mtn granite	gneissic granite & granite	# 41
1380 ± 45	**	K-Ar	biotite	Burro Mtn granodiorite	granodiorite	#119
1410 ± 50	**	K-Ar	biotite	Bullard Peak Series	sill-gt gneiss	#141
1410 ± 50	**	K-Ar	biotite	Bullard Peak Series	gneiss	#142
1437 ±	**	Pb-Pb	zircon	Burro Mtn granite	granite	#162
1437 ±	**	Pb-Pb	zircon	Burro Mtn granite	granite	#163
1444 ±	**	Pb-Pb	zircon	Burro Mtn granite	granite	#175
1445 ± 15		U-Pb	zircon	Burro Mtn granite	granite	#176
1500 ±	**	U-Pb	zircon	Burro Mtn diabase	diabase dike	#221
1505 ±	**	Pb-Pb	zircon	Burro Mtn diabase	diabase dike	#225
1542 ±	**	Pb-Pb	zircon	Bullard Peak Series	sill-gt gneiss	#235
1550 ±	**	K-Ar	biotite	Burro Mtn granite	granite	#239
1550 ±	**	U-Pb	zircon	Bullard Peak Series	sill-gt gneiss	#240
1567 ±	**	Pb-Pb	zircon	Bullard Peak Series	sill-gt gneiss	#245

Black Range

1608 ±	**	Pb-Pb	zircon	Pickett Springs granite	granophyre	#256
1647 ±	**	Pb-Pb	zircon	Pickett Springs granite	granophyre	#276
1655 ± 15	**	U-Pb	zircon	Pickett Springs granite	granophyre	#287

Caballo Mountains

1304 ±	**	Rb-Sr	whole-rock	Caballo Granite	gneissic granite	# 56
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Chupadera Mountains

1659 ± 3		U-Pb	zircon	Chupadera granite	granite	#293
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Cimarron Range

1258 ± 1	**	Ar-Ar	muscovite	Tolby Meadow tectonic unit	quartzite	# 37
1268 ± 1	**	Ar-Ar	muscovite	Eagle Nest tectonic unit	gneissic quartzite	# 40
1350 ± 1	**	Ar-Ar	muscovite	Cimarron River tectonic unit	metarhyolite	# 98
1394 ± 8	**	Ar-Ar	hornblende	Eagle Nest tectonic unit	amphibolite	#126
1401 ± 2	**	Ar-Ar	hornblende	Eagle Nest tectonic unit	amphibolite	#133
1430 ±		U-Pb	monazite	Eagle Nest tectonic unit	gt-plag gneiss	#159
1430 ±	**	U-Pb	zircon	Eagle Nest tectonic unit	gt-plag gneiss	#160
1467 ± 35	**	Rb-Sr	whole-rock	Eagle Nest felsic gneiss	granitic gneiss	#196
1488 ± 42	**	Rb-Sr	whole-rock	Eagle Nest granite	granite	#211
1692 ± 2	**	Ar-Ar	hornblende	Clear Creek quartz-diorite	quartz-diorite	#311

Delaware basin

1139 ±	**	Rb-Sr	biotite	Continental No. 1-E gneiss	granitic gneiss	# 19
1201 ±	**	Rb-Sr	K-feldspar	Socony Mobil No. 95 granite	granite porphyry	# 28
1211 ±	**	Rb-Sr	whole-rock	Stanolind No. 11-X granite	granite	# 29
1356 ± 20	**	Rb-Sr	biotite	Humble No. 1 Huapache granite	biotite granite	#101
1397 ±	**	Rb-Sr	whole-rock	Socony Mobil No. 95 granite	granite porphyry	#128
1397 ± 30	**	Rb-Sr	feldspar	Humble No. 1 Huapache granite	biotite granite	#130

Florida Mountains

626 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	quartz syenite	# 1
685 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	alkali granite	# 3
685 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	alkali granite	# 4
852 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	alkali granite	# 7
1038 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	alkali granite	# 15
1214 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	alkali granite	# 30
1292 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	alkali granite	# 50
1439 ±	**	Rb-Sr	whole-rock	South Peak alkali granite	alkali granite	#166
1530 ± 120	**	Rb-Sr	whole-rock	Florida Mtns granite	qtz monzonite-granodiorite	#233
1554 ±	**	Pb-Pb	zircon	Florida gneiss	granitic gneiss	#241
1556 ±	**	Pb-Pb	zircon	Florida gneiss	granitic gneiss	#242
1570 ±	**	Pb-Pb	zircon	Florida gneiss	granitic gneiss	#248
1610 ±	**	U-Pb	zircon	Florida gneiss	granitic gneiss	#257

Great Plains Province

1358 ±	**	K-Ar	biotite	Cities Service No. 1 granite	granite	#102.
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Jemez Mountains

1440 ± 30	** Rb-Sr	whole-rock	GT-2, EE-1, EE-2 dikes	monzogranite dikes	#169
1465 ± 30	** Pb-Pb	zircon	GT-2 granodiorite	granodiorite	#194
1500 ± 120	** Rb-Sr	whole-rock	GT-2 and EE-2 granodiorite	biotite granodiorite	#220
1500 ± 25	** Pb-Pb	sphene	GT-2 granodiorite	granodiorite	#222
1518 ± 210	** Pb-Pb	epidote	GT-2 granodiorite	granodiorite	#228
1520 ± 210	** Pb-Pb	epidote	GT-2 granodiorite	granodiorite	#230
1550 ± 130	** Rb-Sr	whole-rock	EE-2 monzogranite	monzogranite gneiss	#236
1583 ± 220	** Pb-Pb	epidote	GT-2 granodiorite	granodiorite	#250
1620 ± 40	** Rb-Sr	whole-rock	GT-2 and EE-1 monzogranite	monzogranitic gneiss	#260
1830 ± 170	** Rb-Sr	whole-rock	GT-1 amphibolite	granite-veined amphibolite	#344
1920 ± 180	** Rb-Sr	whole-rock	GT-1 amphibolite	amphibolite	#348

Kilbourne Hole

1375 ±	** Pb-Pb	zircon	Kilbourne Hole xenolith	gt granulite xenolith	#115
1890 ± 100	** Rb-Sr	whole-rock	Kilbourne Hole xenolith	gneiss, gt & charnockite granulite	#346
1990 ± 260	** Rb-Sr	whole-rock	Kilbourne Hole xenolith	gt & charnockite granulite	#349
2040 ± 190	** Rb-Sr	whole-rock	Kilbourne Hole xenolith	fel gneiss, charnockite granulite	#350

Ladron Mountains

986 ± 29	** Rb-Sr	whole-rock	Capirote Granite	quartz monzonite	# 12
1143 ± 56	** Rb-Sr	whole-rock	Ladron metavolcanic sequence	felsic schist & amphibolite	# 20
1291 ± 51	** Rb-Sr	whole-rock	Ladron Granite	granite	# 49

Las Vegas basin

1328 ±	** K-Ar	muscovite	Shamrock No. 1 McArthur granite	granite	# 76
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Lemitar Mountains

1648 ± 3	U-Pb	zircon	Lemitar granite	granite	#277
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Los Pinos Mountains

1350 ± 104	** Rb-Sr	whole-rock	Sepultura granite	granite	# 96
1380 ± 29	** Rb-Sr	whole-rock	Los Pinos granite	granite	#116
1400 ± 59	** Rb-Sr	whole-rock	Sepultura granite	granite	#131
1450 ±	** U-Pb	apatite	Bootleg Canyon sequence	amphibolite	#180
1480 ±	** Rb-Sr	whole-rock	Los Pinos granite	granite gneiss	#206
1559 ± 52	** Rb-Sr	whole-rock	Sevilleta Metarhyolite Fm	metarhyolite	#243
1601 ± 239	** Rb-Sr	whole-rock	Los Pinos granite	granite	#254
1625 ± 49	** Rb-Sr	whole-rock	Sevilleta Metarhyolite Fm	metarhyolite	#264
1653 ±	U-Pb	zircon	Los Pinos granite	granite	#283
1655 ± 3	U-Pb	zircon	Los Pinos granite	granite	#290
1658 ± 12	U-Pb	zircon	Bootleg Canyon aplite	aplite dike	#292
1660 ± 2	U-Pb	zircon	Bootleg Canyon sequence	amphibolite	#295
1660 ±	** U-Pb	sphene	Bootleg Canyon sequence	amphibolite	#296
1662 ± 1	U-Pb	zircon	Sevilleta Metarhyolite Fm	felsic schist	#297

Magdalena Mountains

1247 ± 62	** Rb-Sr	whole-rock	Magdalena Granite	granite	# 35
1327 ± 136	** Rb-Sr	whole-rock	Magdalena Granite	granite	# 75
1420 ± 117	** Rb-Sr	whole-rock	Magdalena Granite	granite	#147
1485 ± 234	** Rb-Sr	whole-rock	Garcia Canyon metagabbro	amphibolite	#210
1654 ± 1	U-Pb	zircon	Magdalena Granite	granite	#285
1664 ± 3	U-Pb	zircon	North Baldy metarhyolite	metarhyolite	#298
1664 ± 3	U-Pb	zircon	Shakespeare Can metarhyolite	felsic schist	#299

Manzano Mountains

1338 ± 3	** Ar-Ar	muscovite	Sevilleta Metarhyolite Fm	metarhyolite	# 84
1361 ± 3	** Ar-Ar	muscovite	Sevilleta Metarhyolite Fm	pelitic schist	#105
1366 ± 2	** Ar-Ar	muscovite	Sevilleta Metarhyolite Fm	pelitic schist	#110
1427 ±	U-Pb	zircon	Priest Quartz Monzonite	quartz monzonite	#155
1438 ± 5	** Ar-Ar	hornblende	Sevilleta Metarhyolite Fm	amphibolite	#165
1439 ± 30	** Rb-Sr	whole-rock	Priest Quartz Monzonite	quartz monzonite	#167
1527 ± 39	** Rb-Sr	whole-rock	Ojita granodiorite	biotite granodiorite	#231
1569 ± 314	** Rb-Sr	whole-rock	Priest Quartz Monzonite	quartz monzonite	#247
1656 ±	U-Pb	zircon	Monte Largo Granodiorite	granodiorite	#291
1680 ±	** U-Pb	zircon	Sevilleta Metarhyolite Fm	feldspathic schist	#306

Nacimiento Mountains (see also Jemez Mtns and San Pedro Mtns)

1460 ± 10	** U-Pb	zircon	Joaquin quartz monzonite	quartz monzonite	#190
1800 ± 50	** Rb-Sr	whole-rock	San Pedro metavolcanics	quartz latite	#343
1840 ± 170	** Rb-Sr	whole-rock	San Pedro leucogranodiorite	gneissic granodiorite	#345

Oscura Mountains

1338 ± 26	** Rb-Sr	whole-rock	Oscura Pluton	biotite granite	# 83
1346 ±	** Rb-Sr	whole-rock	Mockingbird Gap pluton	granite	# 93
1358 ±	** K-Ar	biotite	Sun No. 1 Bingham State granite	granitic gneiss	#103
1368 ±	** K-Ar	muscovite	Oscura Pluton	granite	#111
1368 ±	** K-Ar	biotite	Sun No. 1 Bingham State granite	granite gneiss	#112
1625 ±	** Rb-Sr	K-feldspar	Sun No. 1 Bingham State gneiss	granitic gneiss	#263

Pajarito Mountain

1175 ± 15	** Rb-Sr	feldspar	Pajarito granite	riebeckite granite	# 21
1180 ± 25	** K-Ar	riebeckite	Pajarito granite	riebeckite granite	# 22
1200 ± 25	** K-Ar	hornblende	Pajarito Mtn pegmatite	pegmatite/syenite	# 27

Pecos slope

1189 ±	** K-Ar	biotite	Stanolind No. 11-X granite	granite	# 26
1273 ±	** Rb-Sr	whole-rock	Continental No.1 Langford schist	muscovite schist	# 44
1348 ±	** K-Ar	muscovite	Continental No.1 Langford schist	musc schist	# 95
1387 ±	** Rb-Sr	K-feldspar	De Kalb No. 1 Lewis granite	granite	#123

Pedernal Hills

1364 ± 27	** Rb-Sr	whole-rock	Pedernal metasediments	quartzite and schist	#107
1416 ± 100	** Rb-Sr	whole-rock	Pedernal Mtn granite	granite	#146
1471 ± 97	** Rb-Sr	whole-rock	Pedernal Mtn granite	granite	#201
1493 ± 30	** Rb-Sr	whole-rock	M-2 metavolcanic	metarhyodacite	#216

Picuris Mountains

718 ±	** Rb-Sr	microcline	Harding Pegmatite	pegmatite	# 5
1121 ± 6	** Rb-Sr	perthite	Harding Pegmatite	pegmatite perthite zone	# 16
1183 ± 62	** Rb-Sr	bi-feld-w.r.	Rana Quartz Monzonite	granite	# 23
1186 ± 23	** Rb-Sr	bi-feld-w.r.	Peñasco Quartz Monzonite	granite	# 25
1246 ± 40	** Rb-Sr	lepidolite	Harding Pegmatite	pegmatite	# 34
1264 ± 128	** Rb-Sr	rose muscovite	Harding Pegmatite	pegmatite	# 38
1273 ± 19	** K-Ar	muscovite	Rinconada Formation	musc-bi-gt schist	# 45
1281 ±	** Rb-Sr	whole-rock	Harding Pegmatite	pegmatite spotted rock	# 46
1286 ±	** Rb-Sr	whole-rock	Harding Pegmatite	pegmatite spotted rock	# 48
1295 ±	** Rb-Sr	muscovite	Harding Pegmatite	pegmatite border zone	# 52
1300 ±	** Rb-Sr	mica	Harding Pegmatite	pegmatite	# 54
1304 ±	** Rb-Sr	whole-rock	Harding Pegmatite	pegmatite spotted rock	# 55
1309 ±	** K-Ar	mica	Harding Pegmatite	pegmatite	# 59
1316 ± 20	** K-Ar	muscovite	Glenwoody Formation	qtz-musc schist	# 63
1319 ± 20	** K-Ar	muscovite	Embudo granite	granite	# 67
1324 ±	** Rb-Sr	muscovite	Harding Pegmatite	pegmatite	# 71
1329 ±	** Rb-Sr	lepidolite	Harding Pegmatite	pegmatite replacement micas	# 77
1332 ±	** Rb-Sr	whole-rock	Harding Pegmatite	pegmatite spotted rock	# 80
1335 ± 20	** K-Ar	muscovite	Vadito Group	pegmatite	# 81
1336 ± 73	** Rb-Sr	whole-rock	Harding Pegmatite	pegmatite spotted rock	# 82
1348 ±	** Rb-Sr	whole-rock	Harding Pegmatite	pegmatite spotted rock	# 94
1353 ±	** Rb-Sr	lepidolite	Harding Pegmatite	pegmatite replacement micas	#100
1362 ±	** Rb-Sr	mica	Harding Pegmatite	pegmatite replacement micas	#106
1366 ±	** Rb-Sr	cleavelandite	Harding Pegmatite	pegmatite cleavelandite-qtz	#109
1382 ±	** Rb-Sr	mica	Harding Pegmatite	pegmatite replacement mica	#120
1396 ± 172	** Rb-Sr	cleavelandite	Harding Pegmatite	pegmatite cleavelandite-qtz	#127
1400 ±	** Rb-Sr	whole-rock	Peñasco Quartz Monzonite	quartz monzonite	#132
1406 ±	** Rb-Sr	cleavelandite	Harding Pegmatite	pegmatite cleavelandite-qtz	#135
1406 ±	** Rb-Sr	cleavelandite	Harding Pegmatite	pegmatite cleavelandite-qtz	#136
1407 ±	** Rb-Sr	whole-rock	Glenwoody Fm pegmatite	pegmatite	#138
1413 ±	** Rb-Sr	whole-rock	Rinconada Formation	pelitic schist	#144
1416 ±	** Rb-Sr	whole-rock	Harding Pegmatite	pegmatite	#145
1422 ±	** Rb-Sr	lepidolite	Harding Pegmatite	pegmatite replacement micas	#148
1422 ±	** Rb-Sr	whole-rock	Glenwoody Fm pegmatite	pegmatite	#149
1424 ±	** Rb-Sr	whole-rock	Rinconada Formation	pelitic schist	#151
1427 ±	** Rb-Sr	whole-rock	Puntiagudo Granite Porphyry	granite	#154

1430 ±	**	Rb-Sr	whole-rock	Glenwoody Fm pegmatite	pegmatite	#156	
1435 ±	**	Rb-Sr	whole-rock	Rinconada Formation	pelitic schist	#161	
1438 ±	**	Rb-Sr	whole-rock	Glenwoody Formation	metarhyolite	#164	
1440 ±	130	**	Rb-Sr	whole-rock	Rana Quartz Monzonite	quartz monzonite	#171
1441 ±	**	Rb-Sr	lepidolite	Harding Pegmatite	pegmatite replacement micas	#173	
1441 ±	**	Rb-Sr	K-feldspar	Harding Pegmatite	pegmatite	#174	
1448 ±	**	U-Pb	zircon	Peñasco Quartz Monzonite	quartz monzonite	#177	
1454 ±	**	Rb-Sr	muscovite	Harding Pegmatite	pegmatite border zone	#181	
1457 ±	**	Rb-Sr	whole-rock	Rinconada Formation	pelitic schist	#185	
1460 ±	**	Rb-Sr	whole-rock	Vadito Group schist	felsic schist	#186	
1460 ±	**	U-Pb	zircon	Peñasco Quartz Monzonite	quartz monzonite	#189	
1476 ±	**	Rb-Sr	K-feldspar	Harding Pegmatite	pegmatite	#204	
1481 ±	**	Rb-Sr	mica	Harding Pegmatite	pegmatite replacement micas	#209	
1494 ±	**	Rb-Sr	muscovite	Harding Pegmatite	pegmatite border zone	#217	
1495 ±	**	Rb-Sr	whole-rock	Vadito Group schist	felsic schist	#218	
1497 ±	**	Rb-Sr	cleavelandite	Harding Pegmatite	pegmatite cleavelandite-qtz	#219	
1501 ±	**	Rb-Sr	whole-rock	Vadito Group schist	felsic schist	#223	
1502 ±	**	Rb-Sr	muscovite	Harding Pegmatite	pegmatite border zone	#224	
1510 ±	**	Rb-Sr	muscovite	Harding Pegmatite	pegmatite border zone	#226	
1529 ±	42	**	Rb-Sr	muscovite	Harding Pegmatite	pegmatite wall-zone	#232
1550 ±	130	**	Rb-Sr	whole-rock	Puntiagudo Granite Porphyry	granite	#237
1565 ±	**	Rb-Sr	cleavelandite	Harding Pegmatite	pegmatite cleavelandite-qtz	#244	
1584 ±	**	Rb-Sr	whole-rock	Glenwoody Formation	metarhyolite	#251	
1598 ±	**	Rb-Sr	whole-rock	Glenwoody Formation	metarhyolite	#253	
1616 ±	**	Rb-Sr	lepidolite	Harding Pegmatite	pegmatite replacement micas	#259	
1627 ±	**	Rb-Sr	whole-rock	Glenwoody Formation	metarhyolite	#266	
1630 ±	**	U-Pb	zircon	Cerro Alto Metadacite	metadacite	#269	
1655 ±	**	Rb-Sr	whole-rock	Harding Pegmatite	pegmatite	#286	
1668 ±	**	Pb-Pb	zircon	Ortega Formation	quartzite	#301	
1673 ±	41	**	Rb-Sr	whole-rock	Rana Quartz Monzonite	quartz monzonite	#302
1674 ±	5	**	U-Pb	zircon	Rana Quartz Monzonite	quartz monzonite	#303
1680 ±	**	U-Pb	zircon	Rio Pueblo Schist	feldspathic schist	#305	
1684 ±	1	**	U-Pb	zircon	Puntiagudo Granite Porphyry	granite	#307
1700 ±	**	U-Pb	zircon	Glenwoody Formation	metarhyolite	#313	
1700 ±	**	U-Pb	zircon	Rana Quartz Monzonite	quartz monzonite	#314	
1700 ±	**	U-Pb	zircon	Puntiagudo Granite Porphyry	granite	#315	
1708 ±	**	Rb-Sr	whole-rock	Glenwoody Formation	metarhyolite	#319	
1727 ±	**	Pb-Pb	zircon	Ortega Formation	quartzite	#327	
1739 ±	**	Rb-Sr	whole-rock	Vadito Group schist	felsic schist	#332	
1765 ±	**	Pb-Pb	zircon	Ortega Formation	quartzite	#337	
1769 ±	**	Pb-Pb	zircon	Ortega Formation	quartzite	#339	
1780 ±	**	U-Pb	zircon	Ortega Formation	quartzite	#341	
1793 ±	21	**	U-Pb	zircon	Ortega Formation	quartzite	#342
1899 ±	**	Rb-Sr	cleavelandite	Harding Pegmatite	pegmatite cleavelandite-qtz	#347	

Rattlesnake Hills

848 ±	42	**	K-Ar	whole-rock	Rattlesnake Hills basalt	basalt	# 6
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S. Sangre de Cristo Mtns

1185 ±	**	Rb-Sr	whole-rock	Embudo granite	granite	# 24	
1230 ±	130	**	Rb-Sr	min. separates	Rinconada Formation	pelitic schist	# 31
1253 ±	28	**	Rb-Sr	whole-rock	Rinconada Formation	pelitic schist	# 36
1266 ±	42	**	K/Ar	muscovite	Vadito Group	qtz-musc schist	# 39
1286 ±	9	**	Rb-Sr	min. separates	Pecos Complex	feldspar-musc schist	# 47
1310 ±	260	**	Rb-Sr	whole-rock	Pecos Complex	feld-musc schist	# 61
1319 ±	42	**	Rb-Sr	whole-rock	Vadito Group	quartz-musc schist	# 65
1320 ±	43	**	K-Ar	muscovite	Pecos Complex	feld-musc schist	# 69
1338 ±	**	K-Ar	mica	Pidlite pegmatite	pegmatite	# 85	
1352 ±	24	**	Rb-Sr	min. separates	Vadito Group	quartz-musc schist	# 99
1365 ±	**	Rb-Sr	whole-rock	Embudo granite	granite	#108	
1372 ±	**	Rb-Sr	whole-rock	Embudo granite	granite	#114	
1384 ±	86	**	Rb-Sr	whole-rock	Pecos Complex	bi-plag schist	#121
1412 ±	**	Rb-Sr	whole-rock	Embudo granite	granite	#143	
1457 ±	**	Rb-Sr	whole-rock	Embudo granite	granite	#184	
1464 ±	50	**	Rb-Sr	whole-rock	Embudo granite	granite	#193
1480 ±	**	U-Pb	zircon	Macho Creek granite	granite	#207	
1490 ±	**	Rb-Sr	mica	Pidlite pegmatite	pegmatite	#212	
1492 ±	**	Rb-Sr	whole-rock	Embudo granite	granite	#215	
1534 ±	**	Rb-Sr	whole-rock	Embudo granite	granite	#234	
1608 ±	**	Rb-Sr	whole-rock	Rana Quartz Monzonite	aplite	#255	
1621 ±	27	**	Rb-Sr	whole-rock	Embudo granite	granite, aplite	#261

1628 ± 19	** Rb-Sr	whole-rock	Embudo granite	granite, aplite	#267
1630 ± 250	** Rb-Sr	whole-rock	Pecos Complex	amphibolite	#268
1638 ± 40	** Rb-Sr	whole-rock	Embudo granite	granite	#271
1640 ± 230	** Rb-Sr	whole-rock	Pecos Complex	amphibolite	#273
1650 ± 10	U-Pb	zircon	Dalton Canyon succession	quartz porphyry	#278
1650 ±	U-Pb	zircon	Indian Creek granite	granite	#279
1650 ±	** U-Pb	zircon	Indian Creek granite?	granite	#280
1660 ± 10	U-Pb	zircon	Dalton Canyon succession	quartz porphyry	#294
1691 ±	U-Pb	zircon	Pecos Baldy quartz porphyry	qtz-feld porphyry	#310
1710 ±	** Pb-Pb	galena	Pecos mine orebody	felsic schist	#320
1718 ± 5	U-Pb	zircon	Windy Bridge tonalite	tonalite	#322
1720 ± 15	U-Pb	zircon	Jones rhyolite complex	quartz-eye porphyry	#323
1720 ±	** Pb-Pb	galena	Tres Lagunas metavolcanics	felsic metavolcanic	#325
1730 ± 110	** Rb-Sr	whole-rock	Vadito Group amphibolite	amphibolite	#328

San Andres Mountains

1243 ± 170	** Rb-Sr	whole-rock	Mayberry pluton	quartz monzonite	# 33
1294 ± 161	** Rb-Sr	whole-rock	Mineral Hill pluton	quartz monzonite	# 51
1325 ± 76	** Rb-Sr	whole-rock	Capitol Peak pluton	quartz monzonite	# 72
1388 ±	** K-Ar	biotite	San Andres pluton	granitic gneiss	#124
1408 ±	** K-Ar	biotite	Rhodes Canyon granodiorite	granodioritic gneiss	#140
1430 ±	** Rb-Sr	whole-rock	White Mine gneiss	granodiorite gneiss	#157
1462 ± 67	U-Pb	zircon	Mineral Hill pluton	granite	#192
1568 ± 91	** Rb-Sr	whole-rock	Mineral Hill pluton	quartz monzonite	#246
1632 ± 24	U-Pb	zircon	Mayberry pluton	monzonite	#270
1730 ± 130	** U-Pb	zircon	Little San Nicolas gneiss	gt gneiss	#329

San Andres/Oscura Mtns

1013 ± 242	** Rb-Sr	whole-rock	Mockingbird Gap pluton	quartz monzonite	# 14
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San Diego Mountain

1368 ±	** K-Ar	biotite	Tonuco Mtn gneiss	dioritic gneiss	#113
1407 ±	** Rb-Sr	whole-rock	San Diego Mtn gneiss	dioritic gneiss	#139

San Pedro Mountains

1615 ± 15	** Rb-Sr	whole-rock	San Pedro quartz monzonite	qtz diorite & qtz monzonite	#258
1700 ± 5	** U-Pb	zircon	Zuni unknown unit	metarhyolite, granite	#318
1730 ± 20	** U-Pb	zircon	San Pedro quartz monzonite	quartz monzonite	#331

Sandia Mountains

1128 ± 44	** Rb-Sr	biotite	Sandia Granite	orbicular granite	# 17
1300 ±	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	# 53
1310 ±	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	# 60
1320 ±	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	# 68
1321 ± 28	** K-Ar	biotite	Sandia Granite	biotite monzonite	# 70
1330 ±	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	# 78
1330 ±	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	# 79
1340 ±	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	# 86
1340 ±	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	# 87
1340 ±	** Rb-Sr	mica	Sandia Granite	granite	# 88
1342 ± 28	** K-Ar	biotite	Sandia Granite	orbicular granite	# 90
1343 ± 27	** K-Ar	biotite	Sandia Granite	orbicular granite	# 91
1350 ±	**	bi, whole-rock	Sandia Granite	quartz monzonite	# 97
1358 ±	** K-Ar	mica	Sandia Granite	granite	#104
1380 ±	** Rb-Sr	whole-rock	Sandia Granite	granite	#117
1384 ± 29	** K-Ar	muscovite	Juan Tabo Series	metasedimentary rock	#122
1392 ± 29	** K-Ar	muscovite	Rincon pegmatite	pegmatite	#125
1402 ± 1	** Ar-Ar	muscovite	Sandia Granite	granite	#134
1407 ± 19	** Rb-Sr	whole-rock	Juan Tabo pegmatites	pegmatite and aplite	#137
1423 ± 2	** Ar-Ar	muscovite	Cibola quartzite	muscovite quartzite	#150
1424 ± 30	** K-Ar	muscovite	Rincon pegmatite	pegmatite	#152
1430 ± 20	** Pb-Pb	zircon	Sandia Granite	quartz monzonite	#158
1439 ±	** Rb-Sr	muscovite	Sandia Granite aplite	aplite	#168
1440 ± 40	** Rb-Sr	bi, whole-rock	Sandia Granite	quartz monzonite	#170
1450 ±	** Rb-Sr	muscovite	Monte Largo/Sandia schist	sillimanite schist	#179
1455 ± 20	** Pb-Pb	zircon	Sandia Granite	quartz monzonite	#182
1455 ± 20	** Pb-Pb	zircon	Sandia Granite	quartz monzonite	#183
1460 ± 20	** Pb-Pb	zircon	Sandia Granite	quartz monzonite	#187

1460 ± 20	** Pb-Pb	zircon	Sandia Granite	quartz monzonite	#188
1470 ±	** Pb-Pb	sphene	Sandia Granite	granite	#198
1470 ± 20	** Pb-Pb	zircon	Sandia Granite	quartz monzonite	#199
1470 ± 20	Pb-Pb	zircon	Sandia Granite	quartz monzonite	#200
1472 ± 15	** Rb-Sr	whole-rock	Sandia Granite	granite	#202
1475 ±	** Pb-Pb	zircon	Sandia Granite	granite	#203
1480 ± 90	** Rb-Sr	whole-rock	Sandia Granite	granulitic xenoliths	#205
1480 ±	** Pb-Pb	sphene	Sandia Granite	granite	#208
1490 ±	** Pb-Pb	sphene	Sandia Granite	granite	#214
1517 ± 49	** Rb-Sr	whole-rock	Sandia Granite	orbicular granite	#227
1520 ±	** Rb-Sr	muscovite	Juan Tabo Series	bi-musc gneiss	#229
1576 ± 72	** Rb-Sr	whole-rock	Cibola Gneiss	granite gneiss	#249
1640 ± 40	** Rb-Sr	whole-rock	Juan Tabo Series	schist and amphibolite	#272

Shiprock

1720 ± 5	U-Pb	zircon	Shiprock xenoliths	gneiss, schist, granite	#326
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Sierra Grande arch

1314 ±	** Rb-Sr	biotite	Sierra Grande No. 1 granite	granite	# 62
1397 ±	** Rb-Sr	K-feldspar	Shamrock No. 1 McArthur granite	granite	#129

Taos Range

670 ±	** Rb-Sr	whole-rock	Comanche Point gabbro	gabbro	# 2
960 ± 1	** Ar-Ar	muscovite	Latir Creek quartzite	quartzite	# 10
964 ± 1	** Ar-Ar	muscovite	Cedro Canyon gneiss	gneiss	# 11
1005 ± 1	** Ar-Ar	muscovite	Cedro Canyon quartzite	quartzite	# 13
1306 ± 4	** Ar-Ar	hornblende	Cedro Canyon amphibolite	amphibolite	# 57
1326 ± 3	** Ar-Ar	hornblende	Latir Creek amphibolite	amphibolite	# 73
1326 ± 20	** K-Ar	muscovite	Old Mike Peak quartz monzonite	pegmatite	# 74
1585 ±	** U-Pb	zircon	Urraca Ranch gneiss	felsic gneiss	#252
1643 ±	** U-Pb	zircon	Jarosa Canyon gneiss	felsic gneiss	#274
1644 ±	U-Pb	zircon	Costilla Ck qtz monzonite	quartz monzonite	#275
1678 ±	U-Pb	zircon	Jaracito Canyon granodiorite	granodiorite	#304
1689 ±	U-Pb	zircon	Hondo Canyon granodiorite	granodiorite	#309
1699 ±	U-Pb	zircon	Frazier Mtn qtz monzonite	quartz monzonite	#312
1713 ±	** Pb-Pb	zircon	San Cristobal quartzite	quartzite	#321
1720 ±	U-Pb	zircon	Comanche Point feld. schist	feldspathic schist	#324
1730 ±	U-Pb	zircon	Columbine Ck qtz monzonite	quartz monzonite	#330
1741 ±	U-Pb	zircon	Gold Hill metadiorite	metadiorite	#333
1750 ±	U-Pb	zircon	Red River tonalite	dioritic plutons	#334
1765 ±	U-Pb	zircon	Gold Hill Complex	felsic metavolcanics	#338
1775 ±	** Pb-Pb	zircon	San Cristobal quartzite	quartzite	#340

Tucumcari basin

1139 ±	** Rb-Sr	whole-rock	Husky-General No. 1 granite	granite	# 18
1666 ±	** Rb-Sr	whole-rock	Cities Service No. 1 granite	granite	#300

Tusas Mountains

1234 ± 19	** K-Ar	biotite	Tres Piedras Granite	granitic gneiss	# 32
1272 ± 19	** K-Ar	muscovite	Vadito Group	qtz-mu-feld schist	# 42
1272 ± 19	** K-Ar	muscovite	Vadito Group	qtz-mu schist	# 43
1307 ± 20	** K-Ar	muscovite	Vadito Group	qtz-mu schist	# 58
1317 ± 15	** K-Ar	hornblende	Vadito Group	hbl-chl-bi schist	# 64
1319 ± 20	** K-Ar	muscovite	Vadito Group	pegmatite	# 66
1340 ± 20	** K-Ar	biotite	Vadito Group	hbl-chl-bi schist	# 89
1343 ± 21	** K-Ar	biotite	Vadito Group	qtz-mu-bi schist	# 92
1425 ± 15	** Rb-Sr	mu, whole-rock	Vadito Group	feld schist & pegmatite	#153
1449 ±	** Pb-Pb	zircon	Tusas Mtn granite	granite	#178
1462 ± 21	** Rb-Sr	whole-rock	Tres Piedras Granite	quartz monzonite gneiss	#191
1467 ± 43	** Rb-Sr	whole-rock	Hopewell Lake granite	granite	#195
1469 ± 43	** Rb-Sr	whole-rock	Tres Piedras Granite	quartz monzonite gneiss	#197
1550 ± 40	** Rb-Sr	whole-rock	Tusas Mtn granite	granite	#238
1621 ± 15	** U-Pb	zircon	Tres Piedras Granite	granite	#262
1626 ± 17	** Rb-Sr	whole-rock	Tres Piedras Granite	qtz monzonite gneiss	#265
1650 ±	** U-Pb	zircon	Tres Piedras Granite	granite	#281
1654 ± 23	** Rb-Sr	whole-rock	Rio Brazos trondhjemite	trondhjemite	#284
1688 ± 33	** Rb-Sr	whole-rock	Rio Brazos trondhjemite	trondhjemite & hornblendite	#308
1700 ±	** U-Pb	zircon	Burned Mtn Formation	metarhyolite	#316

1700 ±	**	U-Pb	zircon	Burned Mtn Formation ?	feldspathic schist	#317
1755 ±	**	U-Pb	zircon	Ortega Formation	quartzite	#335
1755 ±		U-Pb	zircon	Maquinita Granodiorite	granodiorite	#336
Zuni Mountains						
951 ± 20	**	K-Ar	whole-rock	Ice Caves diabase dike	diabase dike	# 9
1380 ± 30	**	Rb-Sr	whole-rock	Post Office Flat metarhyolite	metarhyolite	#118
1440 ± 10	**	U-Pb	zircon	Zuni unknown unit	granite	#172
1490 ± 90	**	Rb-Sr	whole-rock	Mirabel "aplite"	granodiorite, granite, aplite	#213
1650 ± 5	**	U-Pb	zircon	Zuni unknown unit	felsic schists	#282
1655 ±		U-Pb	zircon	Zuni felsic metavolcanics	felsic schist	#288
1655 ±		U-Pb	zircon	Zuni granite	granite	#289

PART IV**List of isotopic age determinations by name of rock unit**ROCK UNIT

<u>AGE (**)</u>	<u>METHOD</u>	<u>MATERIAL</u>	<u>MOUNTAIN RANGE</u>	<u>ROCK TYPE</u>	<u>RECORD#</u>
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** = significance of age is uncertain

Bootleg Canyon aplite

1658 ± 12	U-Pb	zircon	Los Pinos Mountains	aplite dike	#292
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Bootleg Canyon sequence

1450 ±	** U-Pb	apatite	Los Pinos Mountains	amphibolite	#180
1660 ± 2	U-Pb	zircon	Los Pinos Mountains	amphibolite	#295
1660 ±	** U-Pb	sphene	Los Pinos Mountains	amphibolite	#296

Bullard Peak Series

1410 ± 50	** K-Ar	biotite	Big Burro Mountains	sill-gt gneiss	#141
1410 ± 50	** K-Ar	biotite	Big Burro Mountains	gneiss	#142
1542 ±	** Pb-Pb	zircon	Big Burro Mountains	sill-gt gneiss	#235
1550 ±	** U-Pb	zircon	Big Burro Mountains	sill-gt gneiss	#240
1567 ±	** Pb-Pb	zircon	Big Burro Mountains	sill-gt gneiss	#245

Burned Mtn Formation

1700 ±	** U-Pb	zircon	Tusas Mountains	metarhyolite	#316
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Burned Mtn Formation ?

1700 ±	** U-Pb	zircon	Tusas Mountains	feldspathic schist	#317
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Burro Mtn diabase

1500 ±	** U-Pb	zircon	Big Burro Mountains	diabase dike	#221
1505 ±	** Pb-Pb	zircon	Big Burro Mountains	diabase dike	#225

Burro Mtn granite

1270 ±	** Rb-Sr	biotite	Big Burro Mountains	gneissic granite & granite	# 41
1437 ±	** Pb-Pb	zircon	Big Burro Mountains	granite	#162
1437 ±	** Pb-Pb	zircon	Big Burro Mountains	granite	#163
1444 ±	** Pb-Pb	zircon	Big Burro Mountains	granite	#175
1445 ± 15	U-Pb	zircon	Big Burro Mountains	granite	#176
1550 ±	** K-Ar	biotite	Big Burro Mountains	granite	#239

Burro Mtn granodiorite

1380 ± 45	** K-Ar	biotite	Big Burro Mountains	granodiorite	#119
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Caballo Granite

1304 ±	** Rb-Sr	whole-rock	Caballo Mountains	gneissic granite	# 56
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Capirote Granite

986 ± 29	** Rb-Sr	whole-rock	Ladron Mountains	quartz monzonite	# 12
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Capitol Peak Pluton

1325 ± 76	** Rb-Sr	whole-rock	San Andres Mountains	quartz monzonite	# 72
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Cedro Canyon amphibolite

1306 ± 4	** Ar-Ar	hornblende	Taos Range	amphibolite	# 57
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Cedro Canyon gneiss

964 ± 1	** Ar-Ar	muscovite	Taos Range	gneiss	# 11
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Cedro Canyon quartzite

1005 ± 1	** Ar-Ar	muscovite	Taos Range	quartzite	# 13
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Cerro Alto Metadacite

1630 ±	** U-Pb	zircon	Picuris Mountains	metadacite	#269
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Chupadera granite

1659 ± 3	U-Pb	zircon	Chupadera Mountains	granite	#293
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Cibola Gneiss

1576 ± 72	** Rb-Sr	whole-rock	Sandia Mountains	granite gneiss	#249
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Cibola quartzite

1423 ± 2	** Ar-Ar	muscovite	Sandia Mountains	muscovite quartzite	#150
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Cimarron River tectonic unit

1350 ± 1	** Ar-Ar	muscovite	Cimarron Range	metarhyolite	# 98
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Cities Service No. 1 granite

1358 ±	** K-Ar	biotite	Great Plains Province	granite	#102
1666 ±	** Rb-Sr	whole-rock	Tucumcari basin	granite	#300

Clear Creek quartz-diorite

1692 ± 2	** Ar-Ar	hornblende	Cimarron Range	quartz-diorite	#311
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Columbine Ck qtz monzonite

1730 ±	U-Pb	zircon	Taos Range	quartz monzonite	#330
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Comanche Point feld. schist

1720 ±	U-Pb	zircon	Taos Range	feldspathic schist	#324
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Comanche Point gabbro

670 ±	** Rb-Sr	whole-rock	Taos Range	gabbro	# 2
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Continental No. 1 schist

1273 ±	** Rb-Sr	whole-rock	Pecos slope	muscovite schist	# 44
1348 ±	** K-Ar	muscovite	Pecos slope	musc schist	# 95

Continental No. 1-E gneiss

1139 ±	** Rb-Sr	biotite	Delaware basin	granitic gneiss	# 19
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Costilla Ck qtz monzonite

1644 ±	U-Pb	zircon	Taos Range	quartz monzonite	#275
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Dalton Canyon succession

1650 ± 10	U-Pb	zircon	S. Sangre de Cristo Mtns	quartz porphyry	#278
1660 ± 10	U-Pb	zircon	S. Sangre de Cristo Mtns	quartz porphyry	#294

De Kalb No. 1 Lewis granite

1387 ±	** Rb-Sr	K-feldspar	Pecos slope	granite	#123
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Eagle Nest felsic gneiss

1467 ± 35	** Rb-Sr	whole-rock	Cimarron Range	granitic gneiss	#196
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Eagle Nest granite

1488 ± 42	** Rb-Sr	whole-rock	Cimarron Range	granite	#211
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Eagle Nest tectonic unit

1268 ± 1	**	Ar-Ar	muscovite	Cimarron Range	gneissic quartzite	# 40
1394 ± 8	**	Ar-Ar	hornblende	Cimarron Range	amphibolite	#126
1401 ± 2	**	Ar-Ar	hornblende	Cimarron Range	amphibolite	#133
1430 ±		U-Pb	monazite	Cimarron Range	gt-plag gneiss	#159
1430 ±		U-Pb	zircon	Cimarron Range	gt-plag gneiss	#160

EE-2 monzogranite

1550 ± 130	**	Rb-Sr	whole-rock	Jemez Mountains	monzogranite gneiss	#236
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Embudo granite

1185 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	# 24
1319 ± 20	**	K-Ar	muscovite	Picuris Mountains	granite	# 67
1365 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#108
1372 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#114
1412 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#143
1457 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#184
1464 ± 50	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#193
1492 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#215
1534 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#234
1621 ± 27	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite, aplite	#261
1628 ± 19	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite, aplite	#267
1638 ± 40	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	granite	#271

Florida gneiss

1554 ±	**	Pb-Pb	zircon	Florida Mountains	granitic gneiss	#241
1556 ±	**	Pb-Pb	zircon	Florida Mountains	granitic gneiss	#242
1570 ±	**	Pb-Pb	zircon	Florida Mountains	granitic gneiss	#248
1610 ±	**	U-Pb	zircon	Florida Mountains	granitic gneiss	#257

Florida Mtns granite

1530 ± 120	**	Rb-Sr	whole-rock	Florida Mountains	qtz monzonite-granodiorite	#233
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Frazier Mtn qtz monzonite

1699 ±		U-Pb	zircon	Taos Range	quartz monzonite	#312
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Garcia Canyon metagabbro

1485 ± 234	**	Rb-Sr	whole-rock	Magdalena Mountains	amphibolite	#210
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Glenwoody Fm pegmatite

1407 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite	#138
1422 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite	#149
1430 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite	#156

Glenwoody Formation

1316 ± 20	**	K-Ar	muscovite	Picuris Mountains	qtz-musc schist	# 63
1438 ±	**	Rb-Sr	whole-rock	Picuris Mountains	metarhyolite	#164
1584 ±	**	Rb-Sr	whole-rock	Picuris Mountains	metarhyolite	#251
1598 ±	**	Rb-Sr	whole-rock	Picuris Mountains	metarhyolite	#253
1627 ±	**	Rb-Sr	whole-rock	Picuris Mountains	metarhyolite	#266
1700 ±	**	U-Pb	zircon	Picuris Mountains	metarhyolite	#313
1708 ±	**	Rb-Sr	whole-rock	Picuris Mountains	metarhyolite	#319

Gold Hill Complex

1765 ±		U-Pb	zircon	Taos Range	felsic metavolcanics	#338
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Gold Hill metadiorite

1741 ±		U-Pb	zircon	Taos Range	metadiorite	#333
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GT-1 amphibolite

1830 ± 170	**	Rb-Sr	whole-rock	Jemez Mountains	granite-veined amphibolite	#344
1920 ± 180	**	Rb-Sr	whole-rock	Jemez Mountains	amphibolite	#348

GT-2 and EE-1 monzogranite

1620 ± 40	**	Rb-Sr	whole-rock	Jemez Mountains	monzogranitic gneiss	#260
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GT-2 and EE-2 granodiorite

1500 ± 120	**	Rb-Sr	whole-rock	Jemez Mountains	biotite granodiorite	#220
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GT-2 granodiorite

1465 ± 30	**	Pb-Pb	zircon	Jemez Mountains	granodiorite	#194
1500 ± 25	**	Pb-Pb	sphene	Jemez Mountains	granodiorite	#222
1518 ± 210	**	Pb-Pb	epidote	Jemez Mountains	granodiorite	#228
1520 ± 210	**	Pb-Pb	epidote	Jemez Mountains	granodiorite	#230
1583 ± 220	**	Pb-Pb	epidote	Jemez Mountains	granodiorite	#250

GT-2, EE-1, EE-2 dikes

1440 ± 30	**	Rb-Sr	whole-rock	Jemez Mountains	monzogranite dikes	#169
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Harding Pegmatite

718 ±	**	Rb-Sr	microcline	Picuris Mountains	pegmatite	# 5
1121 ± 6	**	Rb-Sr	perthite	Picuris Mountains	pegmatite perthite zone	# 16
1246 ± 40	**	Rb-Sr	lepidolite	Picuris Mountains	pegmatite	# 34
1264 ± 128	**	Rb-Sr	rose muscovite	Picuris Mountains	pegmatite	# 38
1281 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite spotted rock	# 46
1286 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite spotted rock	# 48
1295 ±	**	Rb-Sr	muscovite	Picuris Mountains	pegmatite border zone	# 52
1300 ±	**	Rb-Sr	mica	Picuris Mountains	pegmatite	# 54
1304 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite spotted rock	# 55
1309 ±	**	K-Ar	mica	Picuris Mountains	pegmatite	# 59
1324 ±	**	Rb-Sr	muscovite	Picuris Mountains	pegmatite	# 71
1329 ±	**	Rb-Sr	lepidolite	Picuris Mountains	pegmatite replacement micas	# 77
1332 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite spotted rock	# 80
1336 ± 73	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite spotted rock	# 82
1348 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite spotted rock	# 94
1353 ±	**	Rb-Sr	lepidolite	Picuris Mountains	pegmatite replacement micas	#100
1362 ±	**	Rb-Sr	mica	Picuris Mountains	pegmatite replacement micas	#106
1366 ±	**	Rb-Sr	cleavelandite	Picuris Mountains	pegmatite cleavelandite-qtz	#109
1382 ±	**	Rb-Sr	mica	Picuris Mountains	pegmatite replacement mica	#120
1396 ± 172	**	Rb-Sr	cleavelandite	Picuris Mountains	pegmatite cleavelandite-qtz	#127
1406 ±	**	Rb-Sr	cleavelandite	Picuris Mountains	pegmatite cleavelandite-qtz	#135
1406 ±	**	Rb-Sr	cleavelandite	Picuris Mountains	pegmatite cleavelandite-qtz	#136
1416 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite	#145
1422 ±	**	Rb-Sr	lepidolite	Picuris Mountains	pegmatite replacement micas	#148
1441 ±	**	Rb-Sr	lepidolite	Picuris Mountains	pegmatite replacement micas	#173
1441 ±	**	Rb-Sr	K-feldspar	Picuris Mountains	pegmatite	#174
1454 ±	**	Rb-Sr	muscovite	Picuris Mountains	pegmatite border zone	#181
1476 ±	**	Rb-Sr	K-feldspar	Picuris Mountains	pegmatite	#204
1481 ±	**	Rb-Sr	mica	Picuris Mountains	pegmatite replacement micas	#209
1494 ±	**	Rb-Sr	muscovite	Picuris Mountains	pegmatite border zone	#217
1497 ±	**	Rb-Sr	cleavelandite	Picuris Mountains	pegmatite cleavelandite-qtz	#219
1502 ±	**	Rb-Sr	muscovite	Picuris Mountains	pegmatite border zone	#224
1510 ±	**	Rb-Sr	muscovite	Picuris Mountains	pegmatite border zone	#226
1529 ± 42	**	Rb-Sr	muscovite	Picuris Mountains	pegmatite wall-zone	#232
1565 ±	**	Rb-Sr	cleavelandite	Picuris Mountains	pegmatite cleavelandite-qtz	#244
1616 ±	**	Rb-Sr	lepidolite	Picuris Mountains	pegmatite replacement micas	#259
1655 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pegmatite	#286
1899 ±	**	Rb-Sr	cleavelandite	Picuris Mountains	pegmatite cleavelandite-qtz	#347

Hombrook Mtn granite

950 ±	**	K-Ar	biotite	Big Burro Mountains	granite	# 8
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Hondo Canyon granodiorite

1689 ±		U-Pb	zircon	Taos Range	granodiorite	#309
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Hopewell Lake granite

1467 ± 43	**	Rb-Sr	whole-rock	Tusas Mountains	granite	#195
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Humble No. 1 Huapache granite

1356 ± 20	**	Rb-Sr	biotite	Delaware basin	biotite granite	#101
1397 ± 30	**	Rb-Sr	feldspar	Delaware basin	biotite granite	#130

Husky-General No. 1 granite

1139 ±	**	Rb-Sr	whole-rock	Tucumcari basin	granite	# 18
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Ice Caves diabase dike

951 ± 20	**	K-Ar	whole-rock	Zuni Mountains	diabase dike	# 9
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Indian Creek granite

1650 ±		U-Pb	zircon	S. Sangre de Cristo Mtns	granite	#279
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Indian Creek granite?

1650 ±	**	U-Pb	zircon	S. Sangre de Cristo Mtns	granite	#280
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Jaracito Canyon granodiorite

1678 ±		U-Pb	zircon	Taos Range	granodiorite	#304
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Jarosa Canyon gneiss

1643 ±	**	U-Pb	zircon	Taos Range	felsic gneiss	#274
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Joaquin quartz monzonite

1460 ± 10	**	U-Pb	zircon	Nacimiento Mountains	quartz monzonite	#190
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Jones rhyolite complex

1720 ± 15		U-Pb	zircon	S. Sangre de Cristo Mtns	quartz-eye porphyry	#323
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Juan Tabo pegmatites

1407 ± 19	**	Rb-Sr	whole-rock	Sandia Mountains	pegmatite and aplite	#137
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Juan Tabo Series

1384 ± 29	**	K-Ar	muscovite	Sandia Mountains	metasedimentary rock	#122
1520 ±	**	Rb-Sr	muscovite	Sandia Mountains	bi-musc gneiss	#229
1640 ± 40	**	Rb-Sr	whole-rock	Sandia Mountains	schist and amphibolite	#272

Kilbourne Hole xenolith

1375 ±	**	Pb-Pb	zircon	Kilbourne Hole	gt granulite xenolith	#115
1890 ± 100	**	Rb-Sr	whole-rock	Kilbourne Hole	gneiss, gt & charnockite granulite	#346
1990 ± 260	**	Rb-Sr	whole-rock	Kilbourne Hole	gt & charnockite granulite	#349
2040 ± 190	**	Rb-Sr	whole-rock	Kilbourne Hole	fel gneiss, charnockite granulite	#350

Ladron Granite

1291 ± 51	**	Rb-Sr	whole-rock	Ladron Mountains	granite	# 49
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Ladron metavolcanic sequence

1143 ± 56	**	Rb-Sr	whole-rock	Ladron Mountains	felsic schist & amphibolite	# 20
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Latir Creek amphibolite

1326 ± 3	**	Ar-Ar	hornblende	Taos Range	amphibolite	# 73
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Latir Creek quartzite

960 ± 1	**	Ar-Ar	muscovite	Taos Range	quartzite	# 10
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Lemitar granite

1648 ± 3	U-Pb	zircon	Lemitar Mountains	granite	#277
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Little San Nicolas gneiss

1730 ± 130	** U-Pb	zircon	San Andres Mountains	gt gneiss	#329
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Los Pinos granite

1380 ± 29	** Rb-Sr	whole-rock	Los Pinos Mountains	granite	#116
1480 ±	** Rb-Sr	whole-rock	Los Pinos Mountains	granite gneiss	#206
1601 ± 239	** Rb-Sr	whole-rock	Los Pinos Mountains	granite	#254
1653 ±	U-Pb	zircon	Los Pinos Mountains	granite	#283
1655 ± 3	U-Pb	zircon	Los Pinos Mountains	granite	#290

M-2 metavolcanic

1493 ± 30	** Rb-Sr	whole-rock	Pedernal Hills	metarhyodacite	#216
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Macho Creek granite

1480 ±	U-Pb	zircon	S. Sangre de Cristo Mtns	granite	#207
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Magdalena Granite

1247 ± 62	** Rb-Sr	whole-rock	Magdalena Mountains	granite	# 35
1327 ± 136	** Rb-Sr	whole-rock	Magdalena Mountains	granite	# 75
1420 ± 117	** Rb-Sr	whole-rock	Magdalena Mountains	granite	#147
1654 ± 1	U-Pb	zircon	Magdalena Mountains	granite	#285

Maquinita Granodiorite

1755 ±	U-Pb	zircon	Tusas Mountains	granodiorite	#336
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Mayberry pluton

1243 ± 170	** Rb-Sr	whole-rock	San Andres Mountains	quartz monzonite	# 33
1632 ± 24	U-Pb	zircon	San Andres Mountains	quartz monzonite	#270

Mineral Hill pluton

1294 ± 161	** Rb-Sr	whole-rock	San Andres Mountains	quartz monzonite	# 51
1462 ± 67	U-Pb	zircon	San Andres Mountains	granite	#192
1568 ± 91	** Rb-Sr	whole-rock	San Andres Mountains	quartz monzonite	#246

Mirabel "aplite"

1490 ± 90	** Rb-Sr	whole-rock	Zuni Mountains	granodiorite, granite, aplite	#213
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Mockingbird Gap pluton

1013 ± 242	** Rb-Sr	whole-rock	San Andres/Oscura Mtns	quartz monzonite	# 14
1346 ±	** Rb-Sr	whole-rock	Oscura Mountains	granite	# 93

Monte Largo Granodiorite

1656 ±	U-Pb	zircon	Manzano Mountains	granodiorite	#291
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Monte Largo/Sandia schist

1450 ±	** Rb-Sr	muscovite	Sandia Mountains	sillimanite schist	#179
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North Baldy metarhyolite

1664 ± 3	U-Pb	zircon	Magdalena Mountains	metarhyolite	#298
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Ojita granodiorite

1527 ± 39	** Rb-Sr	whole-rock	Manzano Mountains	biotite granodiorite	#231
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Old Mike Peak quartz monzonite

1326 ± 20	**	K-Ar	muscovite	Taos Range	pegmatite	# 74
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Ortega Formation

1668 ±	**	Pb-Pb	zircon	Picuris Mountains	quartzite	#301
1727 ±	**	Pb-Pb	zircon	Picuris Mountains	quartzite	#327
1755 ±	**	U-Pb	zircon	Tusas Mountains	quartzite	#335
1765 ±	**	Pb-Pb	zircon	Picuris Mountains	quartzite	#337
1769 ±	**	Pb-Pb	zircon	Picuris Mountains	quartzite	#339
1780 ±	**	U-Pb	zircon	Picuris Mountains	quartzite	#341
1793 ± 21	**	U-Pb	zircon	Picuris Mountains	quartzite	#342

Oscura Pluton

1338 ± 26	**	Rb-Sr	whole-rock	Oscura Mountains	biotite granite	# 83
1368 ±	**	K-Ar	muscovite	Oscura Mountains	granite	#111

Pajarito granite

1175 ± 15	**	Rb-Sr	feldspar	Pajarito Mountain	riebeckite granite	# 21
1180 ± 25	**	K-Ar	riebeckite	Pajarito Mountain	riebeckite granite	# 22

Pajarito Mtn pegmatite

1200 ± 25	**	K-Ar	hornblende	Pajarito Mountain	pegmatite/syenite	# 27
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Pecos Baldy quartz porphyry

1691 ±		U-Pb	zircon	S. Sangre de Cristo Mtns	qtz-feld porphyry	#310
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Pecos Complex

1286 ± 9	**	Rb-Sr	min. separates	S. Sangre de Cristo Mtns	feldspar-musc schist	# 47
1310 ± 260	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	feld-musc schist	# 61
1320 ± 43	**	K-Ar	muscovite	S. Sangre de Cristo Mtns	feld-musc schist	# 69
1384 ± 86	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	bi-plag schist	#121
1630 ± 250	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	amphibolite	#268
1640 ± 230	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	amphibolite	#273

Pecos mine orebody

1710 ±	**	Pb-Pb	galena	S. Sangre de Cristo Mtns	felsic schist	#320
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Pedernal metasediments

1364 ± 27	**	Rb-Sr	whole-rock	Pedernal Hills	quartzite and schist	#107
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Pedernal Mtn granite

1416 ± 100	**	Rb-Sr	whole-rock	Pedernal Hills	granite	#146
1471 ± 97	**	Rb-Sr	whole-rock	Pedernal Hills	granite	#201

Peñasco Quartz Monzonite

1186 ± 23	**	Rb-Sr	bi-feld-w.r.	Picuris Mountains	granite	# 25
1400 ±	**	Rb-Sr	whole-rock	Picuris Mountains	quartz monzonite	#132
1448 ±	**	U-Pb	zircon	Picuris Mountains	quartz monzonite	#177
1460 ±	**	U-Pb	zircon	Picuris Mountains	quartz monzonite	#189

Pickett Springs granite

1608 ±	**	Pb-Pb	zircon	Black Range	granophyre	#256
1647 ±	**	Pb-Pb	zircon	Black Range	granophyre	#276
1655 ± 15	**	U-Pb	zircon	Black Range	granophyre	#287

Pidlite pegmatite

1338 ±	**	K-Ar	mica	S. Sangre de Cristo Mtns	pegmatite	# 85
1490 ±	**	Rb-Sr	mica	S. Sangre de Cristo Mtns	pegmatite	#212

Post Office Flat metarhyolite

1380 ± 30	**	Rb-Sr	whole-rock	Zuni Mountains	metarhyolite	#118
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Priest Quartz Monzonite

1427 ±		U-Pb	zircon	Manzano Mountains	quartz monzonite	#155
1439 ± 30	**	Rb-Sr	whole-rock	Manzano Mountains	quartz monzonite	#167
1569 ± 314	**	Rb-Sr	whole-rock	Manzano Mountains	quartz monzonite	#247

Puntiagudo Granite Porphyry

1427 ±	**	Rb-Sr	whole-rock	Picuris Mountains	granite	#154
1550 ± 130	**	Rb-Sr	whole-rock	Picuris Mountains	granite	#237
1684 ± 1		U-Pb	zircon	Picuris Mountains	granite	#307
1700 ±	**	U-Pb	zircon	Picuris Mountains	granite	#315

Rana Quartz Monzonite

1183 ± 62	**	Rb-Sr	bi-feld-w.r.	Picuris Mountains	granite	# 23
1440 ± 130	**	Rb-Sr	whole-rock	Picuris Mountains	quartz monzonite	#171
1608 ±	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	aplite	#255
1673 ± 41	**	Rb-Sr	whole-rock	Picuris Mountains	quartz monzonite	#302
1674 ± 5		U-Pb	zircon	Picuris Mountains	quartz monzonite	#303
1700 ±	**	U-Pb	zircon	Picuris Mountains	quartz monzonite	#314

Rattlesnake Hills basalt

848 ± 42	**	K-Ar	whole-rock	Rattlesnake Hills	basalt	# 6
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Red River tonalite

1750 ±		U-Pb	zircon	Taos Range	dioritic plutons	#334
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Rhodes Canyon granodiorite

1408 ±	**	K-Ar	biotite	San Andres Mountains	granodioritic gneiss	#140
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Rincon pegmatite

1392 ± 29	**	K-Ar	muscovite	Sandia Mountains	pegmatite	#125
1424 ± 30	**	K-Ar	muscovite	Sandia Mountains	pegmatite	#152

Rinconada Formation

1230 ± 130	**	Rb-Sr	min. separates	S. Sangre de Cristo Mtns	pelitic schist	# 31
1253 ± 28	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	pelitic schist	# 36
1273 ± 19	**	K-Ar	muscovite	Picuris Mountains	mus-bi-gt schist	# 45
1413 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pelitic schist	#144
1424 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pelitic schist	#151
1435 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pelitic schist	#161
1457 ±	**	Rb-Sr	whole-rock	Picuris Mountains	pelitic schist	#185

Rio Brazos trondhjemite

1654 ± 23	**	Rb-Sr	whole-rock	Tusas Mountains	trondhjemite	#284
1688 ± 33	**	Rb-Sr	whole-rock	Tusas Mountains	trondhjemite & hornblendite	#308

Rio Pueblo Schist

1680 ±		U-Pb	zircon	Picuris Mountains	feldspathic schist	#305
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San Andres Peak granite

1388 ±	**	K-Ar	biotite	San Andres Mountains	granitic gneiss	#124
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San Cristobal quartzite

1713 ±	**	Pb-Pb	zircon	Taos Range	quartzite	#321
1775 ±	**	Pb-Pb	zircon	Taos Range	quartzite	#340

San Diego Mtn gneiss

1407 ±	**	Rb-Sr	whole-rock	San Diego Mountain	dioritic gneiss	#139
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San Pedro leucogranodiorite

1840 ± 170	**	Rb-Sr	whole-rock	Nacimiento Mountains	gneissic granodiorite	#345
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San Pedro metavolcanics

1800 ± 50	**	Rb-Sr	whole-rock	Nacimiento Mountains	quartz latite	#343
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San Pedro quartz monzonite

1615 ± 15	**	Rb-Sr	whole-rock	San Pedro Mountains	qtz diorite & qtz monzonite	#258
1730 ± 20	**	U-Pb	zircon	San Pedro Mountains	quartz monzonite	#331

Sandia Granite

1128 ± 44	**	Rb-Sr	biotite	Sandia Mountains	orbicular granite	# 17
1300 ±	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	# 53
1310 ±	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	# 60
1320 ±	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	# 68
1321 ± 28	**	K-Ar	biotite	Sandia Mountains	biotite monzonite	# 70
1330 ±	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	# 78
1330 ±	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	# 79
1340 ±	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	# 86
1340 ±	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	# 87
1340 ±	**	Rb-Sr	mica	Sandia Mountains	granite	# 88
1342 ± 28	**	K-Ar	biotite	Sandia Mountains	orbicular granite	# 90
1343 ± 27	**	K-Ar	biotite	Sandia Mountains	orbicular granite	# 91
1350 ±	**		bi, whole-rock	Sandia Mountains	quartz monzonite	# 97
1358 ±	**	K-Ar	mica	Sandia Mountains	granite	#104
1380 ±	**	Rb-Sr	whole-rock	Sandia Mountains	granite	#117
1402 ± 1	**	Ar-Ar	muscovite	Sandia Mountains	granite	#134
1430 ± 20	**	Pb-Pb	zircon	Sandia Mountains	quartz monzonite	#158
1440 ± 40	**	Rb-Sr	bi, whole-rock	Sandia Mountains	quartz monzonite	#170
1455 ± 20	**	Pb-Pb	zircon	Sandia Mountains	quartz monzonite	#182
1455 ± 20	**	Pb-Pb	zircon	Sandia Mountains	quartz monzonite	#183
1460 ± 20	**	Pb-Pb	zircon	Sandia Mountains	quartz monzonite	#187
1460 ± 20	**	Pb-Pb	zircon	Sandia Mountains	quartz monzonite	#188
1470 ±	**	Pb-Pb	sphene	Sandia Mountains	granite	#198
1470 ± 20	**	Pb-Pb	zircon	Sandia Mountains	quartz monzonite	#199
1470 ± 20	**	Pb-Pb	zircon	Sandia Mountains	quartz monzonite	#200
1472 ± 15	**	Rb-Sr	whole-rock	Sandia Mountains	granite	#202
1475 ±	**	Pb-Pb	zircon	Sandia Mountains	granite	#203
1480 ± 90	**	Rb-Sr	whole-rock	Sandia Mountains	granulitic xenoliths	#205
1480 ±	**	Pb-Pb	sphene	Sandia Mountains	granite	#208
1490 ±	**	Pb-Pb	sphene	Sandia Mountains	granite	#214
1517 ± 49	**	Rb-Sr	whole-rock	Sandia Mountains	orbicular granite	#227

Sandia Granite aplite

1439 ±	**	Rb-Sr	muscovite	Sandia Mountains	aplite	#168
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Sepultura granite

1350 ± 104	**	Rb-Sr	whole-rock	Los Pinos Mountains	granite	# 96
1400 ± 59	**	Rb-Sr	whole-rock	Los Pinos Mountains	granite	#131

Sevilleta Metarhyolite Fm

1338 ± 3	**	Ar-Ar	muscovite	Manzano Mountains	metarhyolite	# 84
1361 ± 3	**	Ar-Ar	muscovite	Manzano Mountains	pelitic schist	#105
1366 ± 2	**	Ar-Ar	muscovite	Manzano Mountains	pelitic schist	#110
1438 ± 5	**	Ar-Ar	hornblende	Manzano Mountains	amphibolite	#165
1559 ± 52	**	Rb-Sr	whole-rock	Los Pinos Mountains	metarhyolite	#243
1625 ± 49	**	Rb-Sr	whole-rock	Los Pinos Mountains	metarhyolite	#264
1662 ± 1	**	U-Pb	zircon	Los Pinos Mountains	felsic schist	#297
1680 ±	**	U-Pb	zircon	Manzano Mountains	feldspathic schist	#306

Shakespeare Can metarhyolite

1664 ± 3	U-Pb	zircon	Magdalena Mountains	felsic schist	#299
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Shamrock No. 1 McArthur granite

1328 ±	** K-Ar	muscovite	Las Vegas basin	granite	# 76
1397 ±	** Rb-Sr	K-feldspar	Sierra Grande arch	granite	#129

Shiprock xenoliths

1720 ± 5	U-Pb	zircon	Shiprock	gneiss, schist, granite	#326
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Sierra Grande No. 1 granite

1314 ±	** Rb-Sr	biotite	Sierra Grande arch	granite	# 62
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Socony Mobil No. 95 granite

1201 ±	** Rb-Sr	K-feldspar	Delaware basin	granite porphyry	# 28
1397 ±	** Rb-Sr	whole-rock	Delaware basin	granite porphyry	#128

South Peak alkali granite

626 ±	** Rb-Sr	whole-rock	Florida Mountains	quartz syenite	# 1
685 ±	** Rb-Sr	whole-rock	Florida Mountains	alkali granite	# 3
685 ±	** Rb-Sr	whole-rock	Florida Mountains	alkali granite	# 4
852 ±	** Rb-Sr	whole-rock	Florida Mountains	alkali granite	# 7
1038 ±	** Rb-Sr	whole-rock	Florida Mountains	alkali granite	# 15
1214 ±	** Rb-Sr	whole-rock	Florida Mountains	alkali granite	# 30
1292 ±	** Rb-Sr	whole-rock	Florida Mountains	alkali granite	# 50
1439 ±	** Rb-Sr	whole-rock	Florida Mountains	alkali granite	#166

Stanolind No. 11-X granite

1189 ±	** K-Ar	biotite	Pecos slope	granite	# 26
1211 ±	** Rb-Sr	whole-rock	Delaware basin	granite	# 29

Sun No. 1 Bingham State gneiss

1625 ±	** Rb-Sr	K-feldspar	Oscura Mountains	granitic gneiss	#263
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Sun No. 1 Bingham State granite

1358 ±	** K-Ar	biotite	Oscura Mountains	granitic gneiss	#103
1368 ±	** K-Ar	biotite	Oscura Mountains	granite gneiss	#112

Tolby Meadow tectonic unit

1258 ± 1	** Ar-Ar	muscovite	Cimarron Range	quartzite	# 37
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Tonuco Mtn gneiss

1368 ±	** K-Ar	biotite	San Diego Mountain	dioritic gneiss	#113
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Tres Lagunas metavolcanics

1720 ±	** Pb-Pb	galena	S. Sangre de Cristo Mtns	felsic metavolcanic	#325
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Tres Piedras Granite

1234 ± 19	** K-Ar	biotite	Tusas Mountains	granitic gneiss	# 32
1462 ± 21	** Rb-Sr	whole-rock	Tusas Mountains	quartz monzonite gneiss	#191
1469 ± 43	** Rb-Sr	whole-rock	Tusas Mountains	quartz monzonite gneiss	#197
1621 ± 15	** U-Pb	zircon	Tusas Mountains	granite	#262
1626 ± 17	** Rb-Sr	whole-rock	Tusas Mountains	qtz monzonite gneiss	#265
1650 ±	** U-Pb	zircon	Tusas Mountains	granite	#281

Tusas Mtn granite

1449 ±	** Pb-Pb	zircon	Tusas Mountains	granite	#178
1550 ± 40	** Rb-Sr	whole-rock	Tusas Mountains	granite	#238

Urraca Ranch gneiss

1585 ±	**	U-Pb	zircon	Taos Range	felsic gneiss	#252
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Vadito Group

1266 ± 42	**	K/Ar	muscovite	S. Sangre de Cristo Mtns	qtz-musc schist	# 39
1272 ± 19	**	K-Ar	muscovite	Tusas Mountains	qtz-mu-feld schist	# 42
1272 ± 19	**	K-Ar	muscovite	Tusas Mountains	qtz-mu schist	# 43
1307 ± 20	**	K-Ar	muscovite	Tusas Mountains	qtz-mu schist	# 58
1317 ± 15	**	K-Ar	hornblende	Tusas Mountains	hbl-chl-bi schist	# 64
1319 ± 42	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	quartz-musc schist	# 65
1319 ± 20	**	K-Ar	muscovite	Tusas Mountains	pegmatite	# 66
1335 ± 20	**	K-Ar	muscovite	Picuris Mountains	pegmatite	# 81
1340 ± 20	**	K-Ar	biotite	Tusas Mountains	hbl-chl-bi schist	# 89
1343 ± 21	**	K-Ar	biotite	Tusas Mountains	qtz-mu-bi schist	# 92
1352 ± 24	**	Rb-Sr	min. separates	S. Sangre de Cristo Mtns	quartz-musc schist	# 99
1425 ± 15	**	Rb-Sr	mu, whole-rock	Tusas Mountains	feld schist & pegmatite	#153

Vadito Group amphibolite

1730 ± 110	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	amphibolite	#328
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Vadito Group schist

1460 ±	**	Rb-Sr	whole-rock	Picuris Mountains	felsic schist	#186
1495 ±	**	Rb-Sr	whole-rock	Picuris Mountains	felsic schist	#218
1501 ±	**	Rb-Sr	whole-rock	Picuris Mountains	felsic schist	#223
1739 ±	**	Rb-Sr	whole-rock	Picuris Mountains	felsic schist	#332

White Mine gneiss

1430 ±	**	Rb-Sr	whole-rock	San Andres Mountains	granodiorite gneiss	#157
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Windy Bridge tonalite

1718 ± 5		U-Pb	zircon	S. Sangre de Cristo Mtns	tonalite	#322
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Zuni felsic metavolcanics

1655 ±		U-Pb	zircon	Zuni Mountains	felsic schist	#288
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Zuni granite

1655 ±		U-Pb	zircon	Zuni Mountains	granite	#289
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Zuni unknown unit

1440 ± 10	**	U-Pb	zircon	Zuni Mountains	granite	#172
1650 ± 5	**	U-Pb	zircon	Zuni Mountains	felsic schists	#282
1700 ± 5	**	U-Pb	zircon	San Pedro Mountains	metarhyolite, granite	#318

PART V**List of isotopic age determinations by county**COUNTYAGE (**)METHODMATERIALMTN RANGEROCK UNITRECORD #

** = significance of age is uncertain

Bernalillo

1128	**	Rb-Sr	biotite	Sandia Mountains	Sandia Granite	# 17
1300	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	# 53
1310	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	# 60
1320	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	# 68
1321	**	K-Ar	biotite	Sandia Mountains	Sandia Granite	# 70
1340	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	# 87
1342	**	K-Ar	biotite	Sandia Mountains	Sandia Granite	# 90
1343	**	K-Ar	biotite	Sandia Mountains	Sandia Granite	# 91
1380	**	Rb-Sr	whole-rock	Sandia Mountains	Sandia Granite	#117
1384	**	K-Ar	muscovite	Sandia Mountains	Juan Tabo Series	#122
1392	**	K-Ar	muscovite	Sandia Mountains	Rincon pegmatite	#125
1423	**	Ar-Ar	muscovite	Sandia Mountains	Cibola quartzite	#150
1424	**	K-Ar	muscovite	Sandia Mountains	Rincon pegmatite	#152
1430	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#158
1439	**	Rb-Sr	muscovite	Sandia Mountains	Sandia Granite aplite	#168
1440	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	#170
1450	**	Rb-Sr	muscovite	Sandia Mountains	Monte Largo/Sandia schist	#179
1455	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#182
1455	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#183
1460	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#187
1460	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#188
1470	**	Pb-Pb	sphene	Sandia Mountains	Sandia Granite	#198
1470	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#199
1470	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#200
1472	**	Rb-Sr	whole-rock	Sandia Mountains	Sandia Granite	#202
1475	**	Pb-Pb	zircon	Sandia Mountains	Sandia Granite	#203
1480	**	Rb-Sr	whole-rock	Sandia Mountains	Sandia Granite	#205
1480	**	Pb-Pb	sphene	Sandia Mountains	Sandia Granite	#208
1490	**	Pb-Pb	sphene	Sandia Mountains	Sandia Granite	#214
1517	**	Rb-Sr	whole-rock	Sandia Mountains	Sandia Granite	#227
1576	**	Rb-Sr	whole-rock	Sandia Mountains	Cibola Gneiss	#249

Chaves

1273	**	Rb-Sr	whole-rock	Pecos slope	Continental No. 1 Langford schist	# 44
1348	**	K-Ar	muscovite	Pecos slope	Continental No. 1 Langford schist	# 95
1387	**	Rb-Sr	K-feldspar	Pecos slope	De Kalb No. 1 Lewis granite	#123

Cibola

951	**	K-Ar	whole-rock	Zuni Mountains	Ice Caves diabase dike	# 9
1380	**	Rb-Sr	whole-rock	Zuni Mountains	Post Office Flat metarhyolite	#118
1440	**	U-Pb	zircon	Zuni Mountains	Zuni unknown unit	#172
1490	**	Rb-Sr	whole-rock	Zuni Mountains	Mirabel "aplite"	#213
1650	**	U-Pb	zircon	Zuni Mountains	Zuni unknown unit	#282
1655	**	U-Pb	zircon	Zuni Mountains	Zuni felsic metavolcanics	#288
1655	**	U-Pb	zircon	Zuni Mountains	Zuni granite	#289

Colfax

1258	**	Ar-Ar	muscovite	Cimarron Range	Tolby Meadow tectonic unit	# 37
1268	**	Ar-Ar	muscovite	Cimarron Range	Eagle Nest tectonic unit	# 40
1326	**	K-Ar	muscovite	Taos Range	Old Mike Peak quartz monzonite	# 74
1350	**	Ar-Ar	muscovite	Cimarron Range	Cimarron River tectonic unit	# 98
1394	**	Ar-Ar	hornblende	Cimarron Range	Eagle Nest tectonic unit	#126
1401	**	Ar-Ar	hornblende	Cimarron Range	Eagle Nest tectonic unit	#133
1430	**	U-Pb	monazite	Cimarron Range	Eagle Nest tectonic unit	#159
1430	**	U-Pb	zircon	Cimarron Range	Eagle Nest tectonic unit	#160
1467	**	Rb-Sr	whole-rock	Cimarron Range	Eagle Nest felsic gneiss	#196
1488	**	Rb-Sr	whole-rock	Cimarron Range	Eagle Nest granite	#211
1692	**	Ar-Ar	hornblende	Cimarron Range	Clear Creek quartz-diorite	#311

Doña Ana

1243	**	Rb-Sr	whole-rock	San Andres Mountains	Mayberry Pluton	# 33
1294	**	Rb-Sr	whole-rock	San Andres Mountains	Mineral Hill Pluton	# 51
1368	**	K-Ar	biotite	San Diego Mountain	Tonuco Mtn gneiss	#113
1375	**	Pb-Pb	zircon	Kilbourne Hole	Kilbourne Hole xenolith	#115
1388	**	K-Ar	biotite	San Andres Mountains	San Andres Peak granite	#124
1407	**	Rb-Sr	whole-rock	San Diego Mountain	San Diego Mtn gneiss	#139
1462	**	U-Pb	zircon	San Andres Mountains	Mineral Hill Pluton	#192

1568	**	Rb-Sr	whole-rock	San Andres Mountains	Mineral Hill Pluton	#246
1632		U-Pb	zircon	San Andres Mountains	Mayberry pluton	#270
1730	**	U-Pb	zircon	San Andres Mountains	Little San Nicolas gneiss	#329
1890	**	Rb-Sr	whole-rock	Kilbourne Hole	Kilbourne Hole xenolith	#346
1990	**	Rb-Sr	whole-rock	Kilbourne Hole	Kilbourne Hole xenolith	#349
2040	**	Rb-Sr	whole-rock	Kilbourne Hole	Kilbourne Hole xenolith	#350

Eddy

1356	**	Rb-Sr	biotite	Delaware basin	Humble No. 1 Huapache granite	#101
1397	**	Rb-Sr	feldspar	Delaware basin	Humble No. 1 Huapache granite	#130

Grant

950	**	K-Ar	biotite	Big Burro Mountains	Hombrook Mtn granite	# 8
1270	**	Rb-Sr	biotite	Big Burro Mountains	Burro Mtn granite	# 41
1380	**	K-Ar	biotite	Big Burro Mountains	Burro Mtn granodiorite	#119
1410	**	K-Ar	biotite	Big Burro Mountains	Bullard Peak Series	#141
1410	**	K-Ar	biotite	Big Burro Mountains	Bullard Peak Series	#142
1542	**	Pb-Pb	zircon	Big Burro Mountains	Bullard Peak Series	#235
1550	**	U-Pb	zircon	Big Burro Mountains	Bullard Peak Series	#240
1567	**	Pb-Pb	zircon	Big Burro Mountains	Bullard Peak Series	#245

Guadalupe

1139	**	Rb-Sr	whole-rock	Tucumcari basin	Husky-General No. 1 granite	# 18
1358	**	K-Ar	biotite	Great Plains Province	Cities Service No. 1 granite	#102
1666	**	Rb-Sr	whole-rock	Tucumcari basin	Cities Service No. 1 granite	#300

Hidalgo

1437	**	Pb-Pb	zircon	Big Burro Mountains	Burro Mtn granite	#162
1437	**	Pb-Pb	zircon	Big Burro Mountains	Burro Mtn granite	#163
1444	**	Pb-Pb	zircon	Big Burro Mountains	Burro Mtn granite	#175
1445		U-Pb	zircon	Big Burro Mountains	Burro Mtn granite	#176
1500	**	U-Pb	zircon	Big Burro Mountains	Burro Mtn diabase	#221
1505	**	Pb-Pb	zircon	Big Burro Mountains	Burro Mtn diabase	#225
1550	**	K-Ar	biotite	Big Burro Mountains	Burro Mtn granite	#239

Lea

1139	**	Rb-Sr	biotite	Delaware basin	Continental No. 1-E gneiss	# 19
1189	**	K-Ar	biotite	Pecos slope	Stanolind No. 11-X granite	# 26
1201	**	Rb-Sr	K-feldspar	Delaware basin	Socony Mobil No. 95 granite	# 28
1211	**	Rb-Sr	whole-rock	Delaware basin	Stanolind No. 11-X granite	# 29
1397	**	Rb-Sr	whole-rock	Delaware basin	Socony Mobil No. 95 granite	#128

Lincoln

1346	**	Rb-Sr	whole-rock	Oscura Mountains	Mockingbird Gap pluton	# 93
1368	**	K-Ar	muscovite	Oscura Mountains	Oscura Pluton	#111

Luna

626	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	# 1
685	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	# 3
685	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	# 4
852	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	# 7
1038	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	# 15
1214	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	# 30
1292	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	# 50
1439	**	Rb-Sr	whole-rock	Florida Mountains	South Peak alkali granite	#166
1530	**	Rb-Sr	whole-rock	Florida Mountains	Florida Mtns granite	#233
1554	**	Pb-Pb	zircon	Florida Mountains	Florida gneiss	#241
1556	**	Pb-Pb	zircon	Florida Mountains	Florida gneiss	#242
1570	**	Pb-Pb	zircon	Florida Mountains	Florida gneiss	#248
1610	**	U-Pb	zircon	Florida Mountains	Florida gneiss	#257

Mora

1230	**	Rb-Sr	min. separates	S. Sangre de Cristo Mtns	Rinconada Formation	# 31
1253	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Rinconada Formation	# 36
1266	**	K/Ar	muscovite	S. Sangre de Cristo Mtns	Vadito Group	# 39

1286	**	Rb-Sr	min. separates	S. Sangre de Cristo Mtns	Pecos Complex	# 47
1310	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Pecos Complex	# 61
1319	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Vadito Group	# 65
1320	**	K-Ar	muscovite	S. Sangre de Cristo Mtns	Pecos Complex	# 69
1328	**	K-Ar	muscovite	Las Vegas basin	Shamrock No. 1 McArthur granite	# 76
1338	**	K-Ar	mica	S. Sangre de Cristo Mtns	Pidlite pegmatite	# 85
1352	**	Rb-Sr	min. separates	S. Sangre de Cristo Mtns	Vadito Group	# 99
1384	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Pecos Complex	#121
1397	**	Rb-Sr	K-feldspar	Sierra Grande arch	Shamrock No. 1 McArthur granite	#129
1490	**	Rb-Sr	mica	S. Sangre de Cristo Mtns	Pidlite pegmatite	#212
1630	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Pecos Complex	#268
1640	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Pecos Complex	#273
1691		U-Pb	zircon	S. Sangre de Cristo Mtns	Pecos Baldy quartz porphyry	#310
1730	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Vadito Group amphibolite	#328

Otero

1175	**	Rb-Sr	feldspar	Pajarito Mountain	Pajarito granite	# 21
1180	**	K-Ar	riebeckite	Pajarito Mountain	Pajarito granite	# 22
1200	**	K-Ar	hornblende	Pajarito Mountain	Pajarito Mtn pegmatite	# 27

Rio Arriba

1234	**	K-Ar	biotite	Tusas Mountains	Tres Piedras Granite	# 32
1272	**	K-Ar	muscovite	Tusas Mountains	Vadito Group	# 42
1272	**	K-Ar	muscovite	Tusas Mountains	Vadito Group	# 43
1307	**	K-Ar	muscovite	Tusas Mountains	Vadito Group	# 58
1317	**	K-Ar	hornblende	Tusas Mountains	Vadito Group	# 64
1319	**	K-Ar	muscovite	Tusas Mountains	Vadito Group	# 66
1340	**	K-Ar	biotite	Tusas Mountains	Vadito Group	# 89
1343	**	K-Ar	biotite	Tusas Mountains	Vadito Group	# 92
1365	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#108
1425	**	Rb-Sr	mu, whole-rock	Tusas Mountains	Vadito Group	#153
1449	**	Pb-Pb	zircon	Tusas Mountains	Tusas Mtn granite	#178
1460	**	U-Pb	zircon	Nacimiento Mountains	Joaquin quartz monzonite	#190
1467	**	Rb-Sr	whole-rock	Tusas Mountains	Hopewell Lake granite	#195
1469	**	Rb-Sr	whole-rock	Tusas Mountains	Tres Piedras Granite	#197
1550	**	Rb-Sr	whole-rock	Tusas Mountains	Tusas Mtn granite	#238
1615	**	Rb-Sr	whole-rock	San Pedro Mountains	San Pedro quartz monzonite	#258
1621	**	U-Pb	zircon	Tusas Mountains	Tres Piedras Granite	#262
1626	**	Rb-Sr	whole-rock	Tusas Mountains	Tres Piedras Granite	#265
1650	**	U-Pb	zircon	Tusas Mountains	Tres Piedras Granite	#281
1654	**	Rb-Sr	whole-rock	Tusas Mountains	Rio Brazos trondhjemite	#284
1688	**	Rb-Sr	whole-rock	Tusas Mountains	Rio Brazos trondhjemite	#308
1700	**	U-Pb	zircon	Tusas Mountains	Burned Mtn Formation	#316
1700	**	U-Pb	zircon	Tusas Mountains	Burned Mtn Formation ?	#317
1700	**	U-Pb	zircon	San Pedro Mountains	Zuni unknown unit	#318
1730	**	U-Pb	zircon	San Pedro Mountains	San Pedro quartz monzonite	#331
1755	**	U-Pb	zircon	Tusas Mountains	Ortega Formation	#335
1755	**	U-Pb	zircon	Tusas Mountains	Maquinita Granodiorite	#336
1800	**	Rb-Sr	whole-rock	Nacimiento Mountains	San Pedro metavolcanics	#343
1840	**	Rb-Sr	whole-rock	Nacimiento Mountains	San Pedro Leucogranodiorite	#345

San Juan

1720		U-Pb	zircon	Shiprock	Shiprock xenoliths	#326
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San Miguel

1480		U-Pb	zircon	S. Sangre de Cristo Mtns	Macho Creek granite	#207
1650		U-Pb	zircon	S. Sangre de Cristo Mtns	Indian Creek granite	#279
1650	**	U-Pb	zircon	S. Sangre de Cristo Mtns	Indian Creek granite?	#280
1710	**	Pb-Pb	galena	S. Sangre de Cristo Mtns	Pecos mine orebody	#320
1718		U-Pb	zircon	S. Sangre de Cristo Mtns	Windy Bridge tonalite	#322
1720	**	Pb-Pb	galena	S. Sangre de Cristo Mtns	Tres Lagunas metavolcanics	#325

Sandoval

1330	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	# 78
1330	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	# 79
1340	**	Rb-Sr	bi, whole-rock	Sandia Mountains	Sandia Granite	# 86
1340	**	Rb-Sr	mica	Sandia Mountains	Sandia Granite	# 88
1350	**		bi, whole-rock	Sandia Mountains	Sandia Granite	# 97

1358	**	K-Ar	mica	Sandia Mountains	Sandia Granite	#104
1402	**	Ar-Ar	muscovite	Sandia Mountains	Sandia Granite	#134
1407	**	Rb-Sr	whole-rock	Sandia Mountains	Juan Tabo pegmatites	#137
1440	**	Rb-Sr	whole-rock	Jemez Mountains	GT-2, EE-1, EE-2 dikes	#169
1465	**	Pb-Pb	zircon	Jemez Mountains	GT-2 granodiorite	#194
1500	**	Rb-Sr	whole-rock	Jemez Mountains	GT-2 and EE-2 granodiorite	#220
1500	**	Pb-Pb	sphene	Jemez Mountains	GT-2 granodiorite	#222
1518	**	Pb-Pb	epidote	Jemez Mountains	GT-2 granodiorite	#228
1520	**	Rb-Sr	muscovite	Sandia Mountains	Juan Tabo Series	#229
1520	**	Pb-Pb	epidote	Jemez Mountains	GT-2 granodiorite	#230
1550	**	Rb-Sr	whole-rock	Jemez Mountains	EE-2 monzogranite	#236
1583	**	Pb-Pb	epidote	Jemez Mountains	GT-2 granodiorite	#250
1620	**	Rb-Sr	whole-rock	Jemez Mountains	GT-2 and EE-1 monzogranite	#260
1640	**	Rb-Sr	whole-rock	Sandia Mountains	Juan Tabo Series	#272
1830	**	Rb-Sr	whole-rock	Jemez Mountains	GT-1 amphibolite	#344
1920	**	Rb-Sr	whole-rock	Jemez Mountains	GT-1 amphibolite	#348

Santa Fe

1185	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	# 24
1372	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#114
1412	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#143
1457	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#184
1464	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#193
1492	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#215
1534	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#234
1650		U-Pb	zircon	S. Sangre de Cristo Mtns	Dalton Canyon succession	#278
1660		U-Pb	zircon	S. Sangre de Cristo Mtns	Dalton Canyon succession	#294
1720		U-Pb	zircon	S. Sangre de Cristo Mtns	Jones rhyolite complex	#323

Sierra

1304	**	Rb-Sr	whole-rock	Caballo Mountains	Caballo Granite	# 56
1325	**	Rb-Sr	whole-rock	San Andres Mountains	Capitol Peak Pluton	# 72
1408	**	K-Ar	biotite	San Andres Mountains	Rhodes Canyon granodiorite	#140
1430	**	Rb-Sr	whole-rock	San Andres Mountains	White Mine gneiss	#157
1608	**	Pb-Pb	zircon	Black Range	Pickett Springs granite	#256
1647	**	Pb-Pb	zircon	Black Range	Pickett Springs granite	#276
1655	**	U-Pb	zircon	Black Range	Pickett Springs granite	#287

Sierra, Soc., Linc.

1013	**	Rb-Sr	whole-rock	San Andres/Oscura Mtns	Mockingbird Gap pluton	# 14
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Socorro

986	**	Rb-Sr	whole-rock	Ladron Mountains	Capirote Granite	# 12
1143	**	Rb-Sr	whole-rock	Ladron Mountains	Ladron metavolcanic sequence	# 20
1247	**	Rb-Sr	whole-rock	Magdalena Mountains	Magdalena Granite	# 35
1291	**	Rb-Sr	whole-rock	Ladron Mountains	Ladron Granite	# 49
1327	**	Rb-Sr	whole-rock	Magdalena Mountains	Magdalena Granite	# 75
1350	**	Rb-Sr	whole-rock	Los Pinos Mountains	Sepultura granite	# 96
1358	**	K-Ar	biotite	Oscura Mountains	Sun No. 1 Bingham State granite	#103
1368	**	K-Ar	biotite	Oscura Mountains	Sun No. 1 Bingham State granite	#112
1380	**	Rb-Sr	whole-rock	Los Pinos Mountains	Los Pinos granite	#116
1400	**	Rb-Sr	whole-rock	Los Pinos Mountains	Sepultura granite	#131
1420	**	Rb-Sr	whole-rock	Magdalena Mountains	Magdalena Granite	#147
1450	**	U-Pb	apatite	Los Pinos Mountains	Bootleg Canyon sequence	#180
1480	**	Rb-Sr	whole-rock	Los Pinos Mountains	Los Pinos granite	#206
1485	**	Rb-Sr	whole-rock	Magdalena Mountains	Garcia Canyon metagabbro	#210
1559	**	Rb-Sr	whole-rock	Los Pinos Mountains	Sevilleta Metarhyolite Fm	#243
1601	**	Rb-Sr	whole-rock	Los Pinos Mountains	Los Pinos granite	#254
1625	**	Rb-Sr	K-feldspar	Oscura Mountains	Sun No. 1 Bingham State gneiss	#263
1625	**	Rb-Sr	whole-rock	Los Pinos Mountains	Sevilleta Metarhyolite Fm	#264
1648		U-Pb	zircon	Lemitar Mountains	Lemitar granite	#277
1653		U-Pb	zircon	Los Pinos Mountains	Los Pinos granite	#283
1654		U-Pb	zircon	Magdalena Mountains	Magdalena Granite	#285
1655		U-Pb	zircon	Los Pinos Mountains	Los Pinos granite	#290
1658		U-Pb	zircon	Los Pinos Mountains	Bootleg Canyon aplite	#292
1659		U-Pb	zircon	Chupadera Mountains	Chupadera granite	#293
1660		U-Pb	zircon	Los Pinos Mountains	Bootleg Canyon sequence	#295
1660	**	U-Pb	sphene	Los Pinos Mountains	Bootleg Canyon sequence	#296
1662		U-Pb	zircon	Los Pinos Mountains	Sevilleta Metarhyolite Fm	#297

1664	U-Pb	zircon	Magdalena Mountains	North Baldy metarhyolite	#298
1664	U-Pb	zircon	Magdalena Mountains	Shakespeare Can metarhyolite	#299

Socorro, Lincoln

1338	**	Rb-Sr	whole-rock	Oscura Mountains	Oscura Pluton	# 83
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Taos

670	**	Rb-Sr	whole-rock	Taos Range	Comanche Point gabbro	# 2
718	**	Rb-Sr	microcline	Picuris Mountains	Harding Pegmatite	# 5
960	**	Ar-Ar	muscovite	Taos Range	Latir Creek quartzite	# 10
964	**	Ar-Ar	muscovite	Taos Range	Cedro Canyon gneiss	# 11
1005	**	Ar-Ar	muscovite	Taos Range	Cedro Canyon quartzite	# 13
1121	**	Rb-Sr	perthite	Picuris Mountains	Harding Pegmatite	# 16
1183	**	Rb-Sr	bi-feld-w.r.	Picuris Mountains	Rana Quartz Monzonite	# 23
1186	**	Rb-Sr	bi-feld-w.r.	Picuris Mountains	Peñasco Quartz Monzonite	# 25
1246	**	Rb-Sr	lepidolite	Picuris Mountains	Harding Pegmatite	# 34
1264	**	Rb-Sr	rose muscovite	Picuris Mountains	Harding Pegmatite	# 38
1273	**	K-Ar	muscovite	Picuris Mountains	Rinconada Formation	# 45
1281	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	# 46
1286	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	# 48
1295	**	Rb-Sr	muscovite	Picuris Mountains	Harding Pegmatite	# 52
1300	**	Rb-Sr	mica	Picuris Mountains	Harding Pegmatite	# 54
1304	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	# 55
1306	**	Ar-Ar	hornblende	Taos Range	Cedro Canyon amphibolite	# 57
1309	**	K-Ar	mica	Picuris Mountains	Harding Pegmatite	# 59
1316	**	K-Ar	muscovite	Picuris Mountains	Glenwoody Formation	# 63
1319	**	K-Ar	muscovite	Picuris Mountains	Embudo granite	# 67
1324	**	Rb-Sr	muscovite	Picuris Mountains	Harding Pegmatite	# 71
1326	**	Ar-Ar	hornblende	Taos Range	Latir Creek amphibolite	# 73
1329	**	Rb-Sr	lepidolite	Picuris Mountains	Harding Pegmatite	# 77
1332	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	# 80
1335	**	K-Ar	muscovite	Picuris Mountains	Vadito Group	# 81
1336	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	# 82
1348	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	# 94
1353	**	Rb-Sr	lepidolite	Picuris Mountains	Harding Pegmatite	#100
1362	**	Rb-Sr	mica	Picuris Mountains	Harding Pegmatite	#106
1366	**	Rb-Sr	cleavelandite	Picuris Mountains	Harding Pegmatite	#109
1382	**	Rb-Sr	mica	Picuris Mountains	Harding Pegmatite	#120
1396	**	Rb-Sr	cleavelandite	Picuris Mountains	Harding Pegmatite	#127
1400	**	Rb-Sr	whole-rock	Picuris Mountains	Peñasco Quartz Monzonite	#132
1406	**	Rb-Sr	cleavelandite	Picuris Mountains	Harding Pegmatite	#135
1406	**	Rb-Sr	cleavelandite	Picuris Mountains	Harding Pegmatite	#136
1407	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Fm pegmatite	#138
1413	**	Rb-Sr	whole-rock	Picuris Mountains	Rinconada Formation	#144
1416	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	#145
1422	**	Rb-Sr	lepidolite	Picuris Mountains	Harding Pegmatite	#148
1422	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Fm pegmatite	#149
1424	**	Rb-Sr	whole-rock	Picuris Mountains	Rinconada Formation	#151
1427	**	Rb-Sr	whole-rock	Picuris Mountains	Puntiagudo Granite Porphyry	#154
1430	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Fm pegmatite	#156
1435	**	Rb-Sr	whole-rock	Picuris Mountains	Rinconada Formation	#161
1438	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Formation	#164
1441	**	Rb-Sr	lepidolite	Picuris Mountains	Harding Pegmatite	#173
1441	**	Rb-Sr	K-feldspar	Picuris Mountains	Harding Pegmatite	#174
1448	**	U-Pb	zircon	Picuris Mountains	Peñasco Quartz Monzonite	#177
1454	**	Rb-Sr	muscovite	Picuris Mountains	Harding Pegmatite	#181
1457	**	Rb-Sr	whole-rock	Picuris Mountains	Rinconada Formation	#185
1460	**	Rb-Sr	whole-rock	Picuris Mountains	Vadito Group schist	#186
1460	**	U-Pb	zircon	Picuris Mountains	Peñasco Quartz Monzonite	#189
1462	**	Rb-Sr	whole-rock	Tusas Mountains	Tres Piedras Granite	#191
1476	**	Rb-Sr	K-feldspar	Picuris Mountains	Harding Pegmatite	#204
1481	**	Rb-Sr	mica	Picuris Mountains	Harding Pegmatite	#209
1494	**	Rb-Sr	muscovite	Picuris Mountains	Harding Pegmatite	#217
1495	**	Rb-Sr	whole-rock	Picuris Mountains	Vadito Group schist	#218
1497	**	Rb-Sr	cleavelandite	Picuris Mountains	Harding Pegmatite	#219
1501	**	Rb-Sr	whole-rock	Picuris Mountains	Vadito Group schist	#223
1502	**	Rb-Sr	muscovite	Picuris Mountains	Harding Pegmatite	#224
1510	**	Rb-Sr	muscovite	Picuris Mountains	Harding Pegmatite	#226
1529	**	Rb-Sr	muscovite	Picuris Mountains	Harding Pegmatite	#232
1550	**	Rb-Sr	whole-rock	Picuris Mountains	Puntiagudo Granite Porphyry	#237
1565	**	Rb-Sr	cleavelandite	Picuris Mountains	Harding Pegmatite	#244

1584	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Formation	#251
1585	**	U-Pb	zircon	Taos Range	Urraca Ranch gneiss	#252
1598	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Formation	#253
1608	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Rana Quartz Monzonite	#255
1616	**	Rb-Sr	lepidolite	Picuris Mountains	Harding Pegmatite	#259
1621	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#261
1627	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Formation	#266
1628	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#267
1630	**	U-Pb	zircon	Picuris Mountains	Cerro Alto Metadacite	#269
1638	**	Rb-Sr	whole-rock	S. Sangre de Cristo Mtns	Embudo granite	#271
1643	**	U-Pb	zircon	Taos Range	Jarosa Canyon gneiss	#274
1644		U-Pb	zircon	Taos Range	Costilla Ck qtz monzonite	#275
1655	**	Rb-Sr	whole-rock	Picuris Mountains	Harding Pegmatite	#286
1668	**	Pb-Pb	zircon	Picuris Mountains	Ortega Formation	#301
1673	**	Rb-Sr	whole-rock	Picuris Mountains	Rana Quartz Monzonite	#302
1674		U-Pb	zircon	Picuris Mountains	Rana Quartz Monzonite	#303
1678		U-Pb	zircon	Taos Range	Jaracito Canyon granodiorite	#304
1680		U-Pb	zircon	Picuris Mountains	Rio Pueblo Schist	#305
1684		U-Pb	zircon	Picuris Mountains	Puntiagudo Granite Porphyry	#307
1689		U-Pb	zircon	Taos Range	Hondo Canyon granodiorite	#309
1699		U-Pb	zircon	Taos Range	Frazier Mtn qtz monzonite	#312
1700	**	U-Pb	zircon	Picuris Mountains	Glenwoody Formation	#313
1700	**	U-Pb	zircon	Picuris Mountains	Rana Quartz Monzonite	#314
1700	**	U-Pb	zircon	Picuris Mountains	Puntiagudo Granite Porphyry	#315
1708	**	Rb-Sr	whole-rock	Picuris Mountains	Glenwoody Formation	#319
1713	**	Pb-Pb	zircon	Taos Range	San Cristobal quartzite	#321
1720		U-Pb	zircon	Taos Range	Comanche Point feld. schist	#324
1727	**	Pb-Pb	zircon	Picuris Mountains	Ortega Formation	#327
1730		U-Pb	zircon	Taos Range	Columbine Ck qtz monzonite	#330
1739	**	Rb-Sr	whole-rock	Picuris Mountains	Vadito Group schist	#332
1741		U-Pb	zircon	Taos Range	Gold Hill metadiorite	#333
1750		U-Pb	zircon	Taos Range	Red River tonalite	#334
1765	**	Pb-Pb	zircon	Picuris Mountains	Ortega Formation	#337
1765		U-Pb	zircon	Taos Range	Gold Hill Complex	#338
1769	**	Pb-Pb	zircon	Picuris Mountains	Ortega Formation	#339
1775	**	Pb-Pb	zircon	Taos Range	San Cristobal quartzite	#340
1780	**	U-Pb	zircon	Picuris Mountains	Ortega Formation	#341
1793	**	U-Pb	zircon	Picuris Mountains	Ortega Formation	#342
1899	**	Rb-Sr	cleavelandite	Picuris Mountains	Harding Pegmatite	#347

Taos, Rio Arriba

1440	**	Rb-Sr	whole-rock	Picuris Mountains	Rana Quartz Monzonite	#171
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Torrance

848	**	K-Ar	whole-rock	Rattlesnake Hills	Rattlesnake Hills basalt	# 6
1364	**	Rb-Sr	whole-rock	Pedernal Hills	Pedernal metasediments	#107
1416	**	Rb-Sr	whole-rock	Pedernal Hills	Pedernal Mtn granite	#146
1471	**	Rb-Sr	whole-rock	Pedernal Hills	Pedernal Mtn granite	#201
1493	**	Rb-Sr	whole-rock	Pedernal Hills	M-2 metavolcanic	#216
1527	**	Rb-Sr	whole-rock	Manzano Mountains	Ojita granodiorite	#231
1680	**	U-Pb	zircon	Manzano Mountains	Sevilleta Metarhyolite Fm	#306

Union

1314	**	Rb-Sr	biotite	Sierra Grande arch	Sierra Grande No. 1 granite	# 62
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Valencia

1338	**	Ar-Ar	muscovite	Manzano Mountains	Sevilleta Metarhyolite Fm	# 84
1361	**	Ar-Ar	muscovite	Manzano Mountains	Sevilleta Metarhyolite Fm	#105
1366	**	Ar-Ar	muscovite	Manzano Mountains	Sevilleta Metarhyolite Fm	#110
1427		U-Pb	zircon	Manzano Mountains	Priest Quartz Monzonite	#155
1438	**	Ar-Ar	hornblende	Manzano Mountains	Sevilleta Metarhyolite Fm	#165
1656		U-Pb	zircon	Manzano Mountains	Monte Largo Granodiorite	#291

Valencia, Torrance

1439	**	Rb-Sr	whole-rock	Manzano Mountains	Priest Quartz Monzonite	#167
1569	**	Rb-Sr	whole-rock	Manzano Mountains	Priest Quartz Monzonite	#247

REFERENCES

- Abitz, R. J., Ward, D. B., and Brookins, D. G., 1987, Rb-Sr age for lower crust in the southern Rio Grande rift, New Mexico: *Isochron/West*, no. 49.
- Aldrich, L. T., Wetherill, G. W., and Davis, G. L., 1957, Occurrence of 1350 million-year-old granitic rocks in western United States: *Geological Society of America Bulletin*, v. 68, pp. 655-656.
- Aleinikoff, J. N., Reed, J. C., Jr., and Pallister, J. S., 1985, Tectonic implications from U-Pb dating of detrital zircons from the Early Proterozoic terrain of the central Rocky Mountains: *Geological Society of America Abstracts with Programs*, v. 17, p. 510.
- Armstrong, D. G. and Holcombe, R. J., 1982, Precambrian rocks of a portion of the Pedernal highlands, Torrance County, New Mexico: *New Mexico Geological Society, Guidebook 33*, p. 203-210.
- Balestri, M. E. and Brookins, D. G., 1985, Rb-Sr data from the Harding pegmatite, New Mexico: *Isochron/West*, no. 42, p. 8.
- Barker, F. and Friedman, I., 1974, Precambrian metavolcanic rocks of the Tusas Mountains, New Mexico: Major elements and oxygen isotopes: *New Mexico Geological Society, Guidebook 25*, p. 115-117.
- Barker, F., Peterman, Z. E., Henderson, W. T., and Hildreth, R. E., 1974, Rubidium-strontium dating of the trondhjemite of Rio Brazos, New Mexico, and of the Kroenke granodiorite, Colorado: *Jour. Research U.S. Geological Survey*, v. 2, no. 6, p. 705-709.
- Bauer, P. W., Bowring, S. A., and Karlstrom, K. E., 1992, Timing of Proterozoic regional deformation in the southern Manzano Mountains, central New Mexico: *Geological Society of America, Abstracts with Programs*, v. 24, no. 7, p. A146.
- Bauer, P. W. and Williams, M. L., 1989, Stratigraphic nomenclature of Proterozoic rocks, northern New Mexico: Revisions, redefinitions, and formalization: *New Mexico Geology*, v. 11, no. 3, p. 45-52.
- Bell, D. A., 1985, Structural and age relationships in the Embudo Granites, Picuris Mountains, New Mexico [M.S. thesis]: Dallas, University of Texas, 175 p.
- Bell, D. A. and Nielsen, K. C., 1985, Intrusion and deformation sequence of the Embudo granites, north-central New Mexico: *Geological Society of America, Abstracts with programs*, v. 17, no. 3, p. 151.
- Boadi, I. O., 1986, Gold mineralization and Precambrian geology of the Hopewell area, Rio Arriba County, New Mexico [M.S. thesis]: Socorro, New Mexico Institute of Mining and Technology, 107 p.
- Boadi, I. O., Norman, D. I., and Robertson, J. M., 1987, The Hopewell Lake gold district, Tusas Mountains, New Mexico: *Geological Society of America, Abstracts with programs*, v. 19, no. 17, p. 593.
- Bolton, W. R., 1976, Precambrian geochronology of the Sevilleta Metarhyolite and the Los Pinos, Sepultura, and Priest plutons of the southern Sandia uplift, New Mexico [M.S. thesis]: Socorro, New Mexico Institute of Mining and Technology, 45 p.
- Bowring, S. A. and Condie, K. C., 1982, U-Pb zircon ages from northern and central New Mexico: *Geological Society of America, Abstracts with Programs*, v. 8, p. 304.
- Bowring, S. A., Kent, S. C., and Sumner, W., 1983, Geology and U-Pb geochronology of Proterozoic rocks in the vicinity of Socorro, New Mexico: *New Mexico Geological Society, Guidebook 34*, p. 137-142.

- Bowring, S. A., Reed, J. C., Jr. and Condie, K. C., 1984, U-Pb geochronology of Proterozoic volcanic and plutonic rocks, Sangre de Cristo Mountains, New Mexico: Geological Society of America, Abstracts with Programs, v. 16, no. 4, pp. 216.
- Brookins, D. G., 1982, Radiometric ages of Precambrian rocks from central New Mexico: New Mexico Geological Society, Guidebook 33, p. 187-189.
- Brookins, D. G., 1980, Paleozoic plutonism from southern New Mexico: Evidence from the Florida Mountains: Geophysical Research Letters, v. 7, no. 10, p. 741-744.
- Brookins, D. G., 1977, Rubidium-strontium geochronologic investigation of the Zuni Mountains, New Mexico:
- Brookins, D. G., 1974a, Summary of recent Rb-Sr age determinations from Precambrian rocks of north-central New Mexico: New Mexico Geological Society, Guidebook 25, p. 119-121.
- Brookins, D. G., 1974b, Radiometric age determinations from the Florida Mountains, New Mexico: Geology, 1974, v. 2, no. 11, p. 555-557.
- Brookins, D.G., 1974c, Radiometric age determinations from the Sandia Granite, New Mexico: Summary and interpretation: Isochron/West, no. 10, p. 11-14.
- Brookins, D. G., Balestri, M. E., and Fullagar, P. D., 1985, Rb-Sr data from miscellaneous Precambrian rocks, northern New Mexico: Isochron/West, no. 42, p. 10-11.
- Brookins, D. G., Bolton, W. R., and Condie, K. C., 1980, Rb-Sr isochron ages of four Precambrian igneous rock unit from south-central New Mexico: Isochron/West, no. 29, p. 31-37.
- Brookins, D. G., Chakoumakos, B. C., Cook, C. W., Ewing, R. C., Landis, G. P. and Register, M. E., 1979, The Harding Pegmatite: Summary of recent research: New Mexico Geological Society, Guidebook 30, p. 127-133.
- Brookins, D.G. and Corbitt, L.L., 1974, Preliminary Rb-Sr study of igneous rocks of the Florida Mountains, New Mexico [abs.]: EOS, American Geophysical Union Transactions, b. 55, p. 470-471.
- Brookins, D. G. and Della Valle, R. S., 1977, Rubidium-strontium geochronologic investigation of the Zuni Mountains, New Mexico: Geological Society of America, Abstracts with programs, v. 9, no. 1, p. 9.
- Brookins, D. G., Della Valle, R. S., and Lee, M. J., 1978, Rb-Sr geochronologic investigation of Precambrian silicic rocks from the Zuni Mountains, New Mexico: The Mountain Geologist, v. 15, no. 2, p. 67-71.
- Brookins, D. G., Enz, R. D., Kudo, A. M., and Shafiqullah, M., 1975, K-Ar and Rb-Sr age determinations of orbicular granite Sandia Mountains, New Mexico: Isochron/West, no. 12, p. 11-12.
- Brookins, D. G. and Laughlin, A. W., 1983, Rb-Sr geochronologic investigation of Precambrian samples from deep geothermal drill holes, Fenton Hill, New Mexico: Journal of Volcanology and Geothermal Research, v. 15, p. 43-58.
- Brookins, D. G. and Laughlin, A. E., 1976, Rubidium-strontium geochronologic study of GT-1 and GT-2 whole rocks: EOS, v. 57, no. 4, p. 352-353.
- Brookins, D. G. and Leyenberger, T. L., 1981, Rb-Sr isochron ages of two Precambrian igneous rock units, Colfax County, New Mexico: Isochron/West, no. 32, pp. 21-24.
- Brookins, D. G. and Majumdar, A., 1989, Geochronologic study of Precambrian rocks of the Sandia Mountains, New Mexico: Geological Society of America, Special Paper 235, p. 147-154.

- Brookins, D. G. and Majumdar, A., 1983, Whole-rock Rb-Sr age of the Juan Tabo Series, Sandia Mountains, New Mexico: *Isochron/West*, no. 38, p. 21-22.
- Brookins, D. G. and Majumdar, A., 1982, The Sandia Granite, New Mexico—Biotite metamorphic and whole rock Rb-Sr ages: *Isochron/West*, no. 33, p. 19-20.
- Brookins, D. G. and Shafiqullah, M., 1975, K-Ar ages for pegmatitic and metamorphic muscovites, Sandia Mountains, New Mexico: *Isochron/West*, no. 12, p. 9.
- Callender, J. F., Robertson, J. M. and Brookins, D. G., 1976, Summary of Precambrian geology and geochronology of northeastern New Mexico: *New Mexico Geological Society Guidebook 27*, p. 129-135.
- Dallmeyer, R. D., Grambling, J. A. and Thompson, A. G., 1990, Age and character of Proterozoic polymetamorphism in New Mexico: *Geological Society of America, Abstracts with Programs*, v. 22, no. 7, p. 113.
- Dalrymple, G. B., 1979, Critical tables for conversion of K-Ar ages from old to new constants: *Geology*, v. 7, p. 558-560.
- Davis, G. L. and Grew, E. S., 1978, Age of zircon from a crustal xenolith, Kilbourne Hole, New Mexico: *Annual Report of the Director Geophysical Laboratory, Carnegie Institution*, p. 897-898.
- Delevaux, M.H. and Stacey, J.S., 1980, Lead isotopes in ores and rocks of southwest New Mexico: U.S. Geological Survey, *Professional Paper 1175*, p. 204.
- Denison, R. E. and Hetherington, E. A., Jr., 1969, Basement rocks in far west Texas and south-central New Mexico: *New Mexico Bureau on Mines and Mineral Resources Circular 104*, p. 1-16.
- Enz, R. D., Kudo, A. M., and Brookins, D. G., 1979, Igneous origin of the orbicular rocks of the Sandia Mountains, New Mexico: *Summary: Geological Society of America Bulletin, Part I*, v. 90, p. 138-140.
- Evans, K. V. and Clemons, R. E., 1988, Cambrian-Ordovician (500 Ma) alkalic plutonism in southwestern New Mexico: U-Th-Pb isotopic data from the Florida Mountains: *Amer. Jour. Science*, v. 288, p. 735-755.
- Fullagar, P. D. and Shiver, W. S., 1973, Geochronology and petrochemistry of the Embudo Granite, New Mexico: *Geological Society of America Bulletin*, v. 84, p. 2705-2712.
- Fullagar, P. D. and Shiver, W. S., 1973, Geochronology and petrochemistry of the Embudo Granite, New Mexico: *AGU (EOS) Transactions*, v. 54, no. 4, p. 496.
- Fulp, M.S., 1982, Precambrian geology and mineralization of the Dalton Canyon volcanic center, Santa Fe County, New Mexico [M.S. thesis]: Albuquerque, University of New Mexico, 199 p.
- Grambling, J. A. and Dallmeyer, R. D., in press, Tectonic evolution of Proterozoic rocks in the Cimarron Mountains, northern New Mexico, U.S.A.: *Journal of Metamorphic Geology*.
- Grambling, J. A. and Williams, M. L., 1985, The effects of Fe³⁺ and Mn³⁺ on aluminum silicate phase relations in north-central New Mexico, U.S.A.: *Journal of Petrology*, v. 26, pp. 324-354.
- Grambling, J.A., Bowring, S.A., and Dallmeyer, R.D., 1992, Middle Proterozoic cooling ages in the Cimarron Mountains, northern New Mexico: U-Pb and ⁴⁰Ar/³⁹Ar constraints: *Geological Society of America, Abstracts with Programs*, v. 24, no. 7, p. A92.
- Grambling, J. A., Williams, M. L., and Mawer, C. K., 1988, Proterozoic tectonic assembly of New Mexico: *Geology*, p. 724-727.

- Gresens, R. L., 1975, Geochronology of Precambrian rocks, north-central New Mexico: Geological Society of America Bulletin, v. 86, p. 1444-1448.
- Hedlund, D. C., 1978a, Geologic map of the Gold Hill quadrangle, Hidalgo and Grant Counties, New Mexico: U.S. Geological Survey, Miscellaneous Field Studies Map MF-1035, scale 1:24,000.
- Hedlund, D. C., 1978b, Geologic map of the C Bar Ranch quadrangle, Grant County, New Mexico: U.S. Geological Survey, Miscellaneous Field Studies Map MF-1039, scale 1:24,000.
- Hedlund, D. C., 1980, Geologic map of the Redrock NE quadrangle, Grant County, New Mexico: U.S. Geological Survey, Miscellaneous Field Studies Map MF-1264, scale 1:24,000.
- Kelley, V. C., 1968, Geology of the alkaline Precambrian rocks at Pajarito Mountain, Otero County, New Mexico: Geological Society of America Bulletin, v. 79, p. 1565-1572.
- Laughlin, A. W., Brookins, D. G., Damon, P. E., Shafiqullah, M., 1979, Late Cenozoic volcanism of the central Jemez zone, Arizona-New Mexico: Isochron/West, no. 25, 5-8.
- Leyenberger, T. L., 1983, Precambrian geology of Cimarron Canyon, Colfax County, New Mexico [M.S. thesis]: Albuquerque, University of New Mexico, 93 pp.
- Lipman, P. W. and Reed, J. C., Jr., 1989, Geologic map of the Latir volcanic field and adjacent areas, northern New Mexico: U.S. Geological Survey, Miscellaneous Investigations Map I-1907, scale 1:48,000.
- Long, L. E., 1972, Rb-Sr chronology of Precambrian schist and pegmatite, La Madera quadrangle, northern, New Mexico: Geological Society of America Bulletin, v. 83, p. 3425-3432.
- Long, P. E., 1976, Precambrian granitic rocks of the Dixon-Penasco area, northern New Mexico [PhD thesis]: Stanford, Stanford University, 533 p.
- Long, P. E., 1974, Contrasting types of Precambrian granitic rocks in the Dixon-Penasco area, northern New Mexico: New Mexico Geological Society Guidebook 25, p. 101-108.
- Majumdar, A., 1985, Geochronology, geochemistry and petrology of the Precambrian Sandia Granite, Albuquerque, New Mexico: Dissertation Abstracts International, v. 46, no. 6, p. 1848-B.
- Marvin, R. F. and Dobson, S. W., 1979, Radiometric ages: compilation B, U.S. Geological Survey: Isochron/West, no. 26, p. 3-4.
- Marvin, R. F., Mehnert, H. H., and Naeser, C. W., 1988, U.S. Geological Survey radiometric ages—Compilation "C", Part two: Arizona and New Mexico: Isochron/West, no. 51, p. 5, 9, 11-13.
- Maxon, J. R., 1976a, The age of the Tres Piedras Granite, New Mexico: A case of large scale isotopic homogenization [M.S. thesis]: Florida State University, 101 p.
- Maxon, J. R., 1976b, Age and implications of the Tres Piedras Granite, north-central New Mexico: Geological Society of America, Rocky Mountain Section, Abstracts with Programs, p. 608.
- McKee, C. G. and Condie, K. C., 1986, Early Precambrian arc successions in the Manzano Mountains and Pederal Hills, central New Mexico [abs.]: Socorro, New Mexico Geological Society, Annual spring meeting proceedings volume; New Mexico Geology, v. 8, no. 4, p. 96.
- McLemore, V. T. and McKee, C. G., 1988, Geochemistry of the Burro Mountains syenites and adjacent Proterozoic granite and gneiss and the relationship to a Cambrian-Ordovician alkalic magmatic event in New Mexico and southern Colorado: New Mexico Geological Society, Guidebook 39, p. 89-98.

- Muehlberger, W. R. and Denison, R. E., 1964, Precambrian geology of south-central New Mexico: New Mexico Geological Society, Guidebook 15, p. 62-65.
- Muehlberger, W. R., Hedge, C. E., Denison, R. E., and Marvin, R. F., 1966, Geochronology of the midcontinent region, United States: *Journal of Geophysical Research*, v. 71, no. 22, p. 5409-5426.
- Mukhopadhyay, B., Brookins, D.G., and Bolivar, S.E., 1975, Rb-Sr whole-rock study of the Precambrian rocks of the Pedernal Hills, New Mexico: *Earth and Planetary Science Letters*, v. 27, p. 283-286.
- Nelson, B. K. and DePaolo, D. J., 1984, Origin of Precambrian metavolcanic rocks from New Mexico, Colorado, and Wyoming, and the isotopic evolution of Proterozoic mantle: *Geological Society of America, Abstracts with Programs*, v. 16, no. 4, p. 249.
- Reed, J. C. Jr., 1984, Proterozoic rocks of the Taos Range, Sangre de Cristo Mountains, New Mexico: New Mexico Geological Society, Guidebook 35, pp. 179-185.
- Register, M. E., 1979, Geochemistry and geochronology of the Harding pegmatite, Taos County, New Mexico [M.S. thesis]: University of New Mexico, Albuquerque, 145 p.
- Register, M. E. and Brookins, D. G., 1979, Geochronologic and rare-earth study of the Embudo Granite and related rocks: New Mexico Geological Society, Guidebook 30, p. 155-158.
- Renshaw, J.L., 1984, Precambrian geology of the Thompson Peak area, Santa Fe County, New Mexico [M.S. thesis]: Albuquerque, University of New Mexico, 197 p.
- Robertson, J. M. and Condie, K. C., 1989, Geology and geochemistry of early Proterozoic volcanic and subvolcanic rocks of the Pecos greenstone belt, Sangre de Cristo Mountains, New Mexico: *Geological Society of America, Special Paper 235*, p. 119-146.
- Robertson, J. M., Grambling, J. A., Mawer, C. K., Bowring, S. A., Williams, M. L., Bauer, P. W., and Silver, L. T., (in press), Precambrian of New Mexico, *in* J. C. Reed Jr., ed., *The Precambrian: Conterminous U.S.: Geological Society of America, DNAG Volume*.
- Roths, P., 1991, Geology of Proterozoic outcrops in Dead Man and Little San Nicolas canyons, southern San Andres Mountains, New Mexico: New Mexico Geological Society, Guidebook 42, p. 91-96.
- Setter, J.R.D., 1985, Precambrian rocks of the Rattlesnake and Pedernal Hills, Torrance County, New Mexico [abs.]: *New Mexico Geology*, v. 7, no. 1, p. 19.
- Shastri, L.L., 1993, Proterozoic Geology of the Los Pinos Mountains [M.S. thesis]: Albuquerque, University of New Mexico.
- Silver, L. T., 1984, Observations on Precambrian evolution of northern New Mexico and adjacent regions: *Geological Society of America Abstracts with Programs*, v. 16, no. 4, p. 256.
- Stacey, J. S., Doe, B. R., Silver, L. T., and Zartman, R. E., 1977, Plumbotectonics IIA, Precambrian massive sulfide deposits: U.S. Geological Survey Open-File Report 76-476, 26 p.
- Stacey, J. S. and Hedlund, D. C., 1983, Lead-isotopic compositions of diverse igneous rocks and ore deposits from southwestern New Mexico and their implications for Early Proterozoic crustal evolution in the western U.S.: *Geological Society of America Bulletin*, v. 94, p. 43-57.
- Steiger, R. H. and Jäger, E., 1977, Subcommittee on geochronology: convention on the use of decay constants in geo- and cosmochronology: *Earth and Planetary Science Letters*, 39(1977), p. 359-362.

- Steiger, R. H. and Wasserburg, G. J., 1966, Systematics in the Pb^{208} - Th^{232} , Pb^{207} - U^{235} , and Pb^{206} - U^{238} Systems: *Journal of Geophysical Research*, v. 71, no. 24, p. 6065-6090.
- Taggart, J. E. and Brookins, D. G., 1975, Rb-Sr whole rock age determinations for Sandia Granite and Cibola gneiss, New Mexico: *Isochron/West*, no. 12, p. 5-8.
- Thompson, A. G., Grambling, J. A., and Dallmeyer, R. D., 1991, Proterozoic tectonic history of the Manzano Mountains, central New Mexico: *New Mexico Bureau of Mines and Mineral Resources, Bulletin 137*, p. 71-77.
- Tilton, G.R. and Grunefelder, M.H., 1968, Sphene: uranium-lead ages: *Science*, v. 159, p. 1458-1461.
- Tilton, G.R., Wetherill, G.W., and Davis, G.L., 1962, Mineral ages from the Wichita and Arbuckle Mountains, Oklahoma, and the St. Francis Mountains, Missouri: *Journal of Geophysical Research*, v. 65, p. 4011-4020.
- Ward, D. B., 1990, Rubidium-strontium geochronology of Proterozoic rocks from the Pecos and Truchas metamorphic terranes, north-central New Mexico: *New Mexico Geological Society, Guidebook 41*, p. 211-218.
- Ward, D. B., 1986, Rb-Sr dating techniques applied to a metamorphosed Proterozoic terrane in the southern Sangre de Cristo Mountains, north-central New Mexico [M.S. thesis]: Albuquerque, University of New Mexico, 152 p.
- Wasserburg, G. J. and Steiger, R. H., 1967, Systematics in the T-U-Pb systems and multi-phase assemblages: *International Atomic Energy Agency, Radioactive Dating and Methods of Low-level Counting*, p. 331-347.
- Wasserburg, G.J., Towell, D. and Steiger, R.H., 1965, A study of Rb-Sr systematics in some Precambrian granites of New Mexico [abs.]: *Transactions of the American Geophysical Union*, v. 46, p. 173.
- White, D. L., 1979, Rb-Sr age and isotopic data of some Precambrian plutons in central New Mexico, USA: *The Mountain Geologist*, no. 4, p. 131-137.
- White, D. L., 1978, Rb-Sr isochron ages of some Precambrian plutons in south-central New Mexico: *Isochron/West*, no. 21, p. 8-14.
- White, D. L., 1977, A Rb-Sr isotopic geochronologic study of Precambrian intrusives of south-central New Mexico [M.S. thesis]: Oxford, Miami University, ___ p.
- Wobus, R. A. and Hedge, C. E., 1982, Redefinition of the Precambrian Tusas Mountain and Tres Piedras granites, north-central New Mexico: *Mountain Geologist*, v. 19, no. 4, p. 105-114.
- Wobus, R. A. and Hedge, C. E., 1980, Rb-Sr isochron age of Precambrian plutons of the San Pedro Mountains, north-central New Mexico: *Isochron/West*, no. 27, p. 19-25.
- Woodward, L. A., 1987, Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico: *New Mexico Bureau of Mines and Mineral Resources, Memoir 42*, 84 pp.
- Zartman, R. E., 1979, Uranium, thorium, and lead concentrations and lead isotopic composition of biotite granodiorite (Sample 9527-2b) from LASL Drill Hole GT-2: Los Alamos Scientific Laboratory, LA-7923-MS, 18 p.

Appendix 1. List of area designations by county.

<u>Bernalillo County</u>	<u>31</u>	<u>Hidalgo County</u>	<u>7</u>
Carnue area	6	Round Mountain area	3
Embudito Canyon area	1	Round Mtn area	4
Jaral Ranger Station	1		
Monte Largo Hills area	1	<u>Lea County</u>	<u>5</u>
NE of Albuquerque	1	Buckeye area	2
Rincon area	3	Eunice area	1
S. Sandia Mtns area	9	Hobbs area	2
Sandia Crest area	6		
Seven Springs	1	<u>Lincoln County</u>	<u>2</u>
Tijeras Canyon area	1	Mockingbird Gap area	1
unknown area	1	S. Oscura Mountains	1
<u>Chaves County</u>	<u>3</u>	<u>Luna County</u>	<u>13</u>
Bitter Lake area	1	Capitol Dome area	4
Dexter area	2	South Peak area	8
		unknown area	1
<u>Cibola County</u>	<u>7</u>	<u>Mora County</u>	<u>17</u>
Ice Caves area	1	Mogote Hills area	1
Post Office Flat area	2	Pecos Baldy area	3
unknown area	4	Pidlite mine area	2
		Rio Mora area	5
<u>Colfax County</u>	<u>11</u>	Rio Valdez area	1
2 km W of Clear Creek	1	Truchas Peak area	4
b/w Tolby and Clear cr	1	Turkey Mountains area	1
Bobcat Pass area	1		
S. Tolby Creek area	1	<u>Otero County</u>	<u>3</u>
South of Horseshoe min	1	Pajarito Mtn area	2
Tolby Creek area	4	Pajarito Peak area	1
W. of Palisades area	1		
West of Clear Creek	1	<u>Rio Arriba County</u>	<u>29</u>
		Ancones area	1
<u>Dofia Ana County</u>	<u>13</u>	Ancones area	1
Gardner Peak area	1	Burned Mountain area	1
Goat Mountain area	1	Burned Mtn area?	1
Kilbourne Hole area	4	Canada del Oso area	1
Mayberry Canyon area	1	Cordova area	1
Mineral Hill area	3	Hopewell Lake area	1
San Andres Peak area	1	Kiowa Canyon area	1
Tonuco Mountain area	1	Kiowa Mountain area	2
Tonuco Mtn area	1	Las Tablas area	3
		Mesa Jarita area	1
<u>Eddy County</u>	<u>2</u>	N. Nacimiento Mtns	2
Carlsbad area	2	Nacimiento Pk area	1
		Rio Brazos area	2
<u>Grant County</u>	<u>8</u>	S. Nacimiento Mtns are	1
Bear Canyon area	1	San Pedro Peaks area	1
Bullard Peak area	5	Tusas Mountain area	2
Coop mine area	1	Tusas Mtn area	1
Langford Mtns area	1	Tusas River Can area	1
		unknown area	3
<u>Guadalupe County</u>	<u>3</u>	various areas	1
Bar Y dome area	1		
E of Santa Rosa	1	<u>San Juan County</u>	<u>1</u>
North of Santa Rosa	1	unknown area	1

San Miguel County	6	Cedro Canyon area	2
<hr/>	<hr/>	Cerro Arboles area	1
Indian Creek area	2	Cerro Puntiaigudo area	1
Macho Creek area	2	Comales Campground	1
Pecos mine area	1	Comanche Point area	2
Tres Lagunas area	1	Copper Hill area	2
Sandoval County	21	Costilla Creek area	1
<hr/>	<hr/>	Gold Hill area	2
3 mi N of Placitas	1	Harding mine area	47
Cañon del Agua area	6	Hondo Canyon area	2
Fenton Hill area	11	Latir Creek	1
Juan Tabo area	1	Latir Creek area	1
Juan Tabo picnic area	1	North of Cerro Alto	1
Placitas area	1	Pilar area	12
Santa Fe County	10	Pilar cliffs area	6
<hr/>	<hr/>	Questa area	1
Cordova area	1	Rio Lucio area	2
Dalton Canyon area	1	San Cristobal Can area	2
Jones mine area	1	South of El Valle area	1
Nambe Falls area	2	Tres Piedras area	1
Pacheco Canyon area	2	unknown area	3
Santa Cruz Res. area	1	Urraca Ranch area	3
Santa Fe range area	1	various areas	4
Wild Horse Can area	1	Wheeler Peak area	2
Sierra County	7	Taos, Rio Arriba County	1
<hr/>	<hr/>	S. of Harding mine	1
Caballo dam area	1	Torrance County	7
Kingston mining dist.	3	<hr/>	<hr/>
N San Andres Mtns	1	Guadalupe Peak area	1
Rhodes Canyon area	1	Pedernal Mtn area	4
White Mine area	1	Rattlesnake Hills area	1
Sierra, Soc., Linc. County	1	S. of Capilla Peak	1
<hr/>	<hr/>	Union County	1
Mockingbird Gap area	1	<hr/>	<hr/>
Socorro County	29	Des Moines area	1
<hr/>	<hr/>	Valencia County	6
Bootleg Canyon area	7	<hr/>	<hr/>
Garcia Canyon area	1	Estadio Canyon	1
Jordan Canyon area	4	Estadio Canyon area	1
Ladron Peak area	1	Monte Largo Can area	1
Montosa Draw area	1	Monte Largo Canyon	1
N of Oscura Mtns	1	Pipe Canyon	1
North Baldy area	1	Pipe Canyon area	1
North of Ladron Peak	1	Valencia, Torrance County	2
North of Oscura Mounta	2	<hr/>	<hr/>
Pinon Canyon area	2	Estadio Canyon area	2
S. Chupadera area	1		
S. Lemitar Mtns area	1		
Sepultura Canyon area	1		
Shakespeare Can area	1		
unknown area	1		
W of Ladron Peak	1		
Whiteface Mtn area	2		
Socorro, Lincoln County	1		
<hr/>	<hr/>		
various areas	1		
Taos County	**		
<hr/>	<hr/>		
Cañoncito area	1		
Cedro Canyon	1		