19.80 ± 1.00 # 483
KA/w.r./basalt Palo Verde volcanics Schoustra and others, 1976
Arlington Valley — Gillespie Dam area. Olivine basalt, northwest of Gillespie Dam, location G-1. Spring Mtn. quad., MA county (33° 14.10', 112° 50.00'). L-5, K%= 1.8, *Ar=32, #R-2638.

19.80 ± 0.90 # 484
KA/plag/dacite dike Kofa dike Hankins, 1984
Kofa Mtns. — Kofa mine area. Dacite porphyry dike. Kofa Butte quad., YU county (33° 16.83', 113° 57.97'). L-7, K%= 3.5, *Ar=36, #KA2535.

19.90 ± 0.50 ** # 485
KA/phlo/minette dike Buell Park diatreme Roden and others, 1979
Defiance Plateau -- Friable dike in "Outer Neck", between Buell Park and the Beast. X-ray diffraction spectra indicate alteration. Generalized lat-lon. Buell Park quad., AP county (35° 53.50', 109° 3.10'). L-H, K%= 5.9, *Ar=24, #N240.

19.90 ± 0.60 # 486
KA/biot/ash-flow tuff Apache Leap Tuff Creasey and Kistler, 1962
Superior area -- Basal vitrophyre of Apache Leap Tuff. Superior quad., PN county (33° 20.00', 111° 1.00'). L-9, K%= 5.7, #C62:10.

19.90 ± 0.47 # 487
KA/w.r./rhyolite Artillery Fm. Scarborough and Wilt, 1979
Artillery Mtns. -- West of Artillery Peak. Thin rhyolite flow or sill that occurs discontinuously about 150-250 m above base of type Artillery Fm. Artillery Peak quad., MO county (34° 22.13', 113° 36.13'). L-1, K%= 3.5, *Ar=82, #UAKA-78-46.

19.91 ± 0.58 # 488
KA/w.r./basaltic andesite Palo Verde volcanics Shafiqullah and others, 1980
Arlington Valley — Arlington area. Porphyritic basaltic andesite that is either a southwest-dipping flow or a source vent for the local lava flows. Also reported by Schoustra and others (1976). Arlington quad., MA county (33° 20.30', 112° 47.50'). L-1, K%= 1.3, *Ar=49, #UAKA-73-22.

19.98 ± 0.58 # 489
KA/biot/latite dike Eagletail volcanics Shafiqullah and others, 1980
Eagletail Mtns. -- Courthouse Rock. Latite porphyry dike that cuts crystalline rocks and overlying tuffs and vitrophyres. Eagletail Mtns. quad., LP county (33° 27.80', 113° 21.35'). L-1, K%= 7.1, *Ar=67, #UAKA-72-72.

20.00 ± 0.80 # 490
KA/w.r./trachyandesite Vaca Hills volcanics Banks and others, 1978a
Silver Bell Mtns. — Vaca Hills. Vesicular trachyandesite. Plagioclase date from same sample is 22.7 m.y. Vaca Hills quad., PM county (32° 16.70', 111° 42.10'). L-3, K%= 2.6, *Ar=51, #VHSW-3N.

20.00 ± 0.80 # 491
KA/biot/welded tuff Horse Mtn. Volcanics Douthitt, 1981
Aravaipa area -- Stanley Butte area. Analytical data and location not published. Generalized lat-lon. San Carlos Reservoir (?) quad., GM county (33° 1.00', 110° 22.00'). L-5, C-?.

20.00 ± 0.49 # 492
KA/w.r./basaltic andesite Palo Verde volcanics Shafiqullah and others, 1980
Arlington Valley — Gillespie Dam area. High-standing dark hills that lie between the Gila Bend Mtns. and Buckeye Hills. Also reported by Schoustra and others (1976). Spring Mtn. quad., MA county (33° 12.70', 112° 48.20'). L-1, K%= 1.6, *Ar=75, #UAKA-73-27.

20.02 ± 0.42 # 493
KA/w.r./basalt Vulture volcanics Scarborough and Wilt, 1979
Vulture Mtns. — Western end, near Black Butte. From near the base of a thick volcanic section that dips 10-30 degrees SE, is underlain by arkosic conglomerate, and is overlain by fine-grained clastic rocks. Units are unconformably overlain by basalt. Aguila quad., MA county (33° 51.62', 113° 2.80'). L-1, K%= 1.0, *Ar=83, #UAKA-78-48.

20.10 ± 1.00 # 494
KA/w.r./basalt Palo Verde volcanics Schoustra and others, 1976
Arlington Valley — Gillespie Dam area. Olivine basalt west of Gillespie Dam, location G-4. Spring Mtn. quad., MA county (33° 14.00', 112° 49.80'). L-5, K%= 1.5, *Ar=.2, #R-2639.

20.10 ± 3.50 # 495
KA/horn/granite Little Ajo Mtns. granite McDowell, 1971
Little Ajo Mtns. — Medium-grained, equigranular quartz monzonite that is altered. Biotite from same sample is 19.6 m.y. Pluton is either middle Tertiary or was affected by a middle Tertiary thermal event. Ajo quad., PM county (32° 21.92', 112° 52.88'). L-A, K%= 0.4, *Ar=9, #L-844.

20.11 ± 0.47 # 496
KA/biot/air-fall tuff San Manuel Fm. Scarborough and Wilt, 1979
Tortilla Mtns. -- 2 m-thick silicic air-fall tuff intercalated into the synclinal San Manuel Fm. Other dates on same sample include 23.4 m.y. on hornblende and 25.6 m.y. on plagioclase. Crozier Peak quad., PN county (32° 58.75', 110° 56.71'). L-1, K%= 0.6, *Ar=77, #UAKA-76-133.

20.20 ± 0.40 ** # 497
KA/biot/granodiorite South Mtns. Granodiorite Reynolds, 1985
South Mtns. -- Cooling age on 22-25 m.y.-old pluton. Also listed by Reynolds and others (1986). Lone Butte quad., MA county (33° 20.27', 112° 3.23'). L-1, K%= 7.3, *Ar=82, #UAKA-78-81.

20.30 ± 3.00 ** # 498
KA/w.r./basaltic andesite Tumamoc Hill basaltic andesite Bikerman and Damon, 1966
Tucson Mtns. -- Tumamoc Hill. Uppermost basaltic andesite in a series that overlies the A Mtn. gray tuff. Date is too young. Additional date on same unit is 23.67 m.y. Also reported by Damon and Bikerman (1964). Cat Mtn. quad., PM county (32° 12.78', 111°0.33'). L-1, K%= 2.7, *Ar=25, #PED-08-63.

20.30 ± 0.70 # 499
KA/w.r./basaltic andesite McLendon volcanics Otton, 1982
Santa Maria Mtns. -- Altered and very fine grained basaltic andesite from base of McLendon volcanic pile east of the Anderson Mine. Stratigraphically below section bearing early Miocene fauna at the Anderson Mine. Malpais Mesa quad., YA county (34° 21.23', 113° 12.13'). L-2, K%= 3.4, *Ar=21, #AP78-01.

20.30 ± 0.80 ** # 500
KA/biot/latite Hells Gate latite Kortemeier and others, 1986
Hieroglyphic Mtns. -- Castle Hot Springs volcanic field. Flow was referred to as Mitchell Spring latite, but represents upper flow of Hells Gate latite. Date is older than two dates on underlying units. No analytical data reported. Generalized lat-lon. Governors Peak quad., YA county (33° 55.42', 112° 20.34'). L-7, #3-2-1.

20.30 ± 1.50 # 501
KA/plag/andesite Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. -- One of the most extensive and prominent lithologic units in the range. Hidden Valley quad., LP county (33° 17.15', 114° 36.50'). L-7, K%= 7.3, *Ar=26, #2119.

20.32 ± 1.20 # 502
KA/w.r./andesite Samaniego andesite Eastwood, 1970
Silver Bell Mtns. -- Samaniego Hills. Andesite with pyroxene grains set in a chocolate-brown ground mass (hypersthene and plagioclase). Underlies Sasco andesite and overlies Cerro Prieto basalt. Samaniego Hills quad., PN county (32° 30.25', 111° 26.67'). L-1, K%= 3.0, *Ar=31, #RLE-27-68.

20.35 ± 0.63 # 503
KA/w.r./basaltic andesite Palo Verde volcanics Shafiqullah and others, 1980
Palo Verde Hills -- Faulted flow that overlies a reworked tuff unit in the southern part of Palo Verde Hills. Also reported by Schoustra and others (1976). Arlington quad., MA county (33° 24.00', 112° 56.00'). L-1, K%= 1.9, *Ar=44, #UAKA-73-29.

20.36 ± 0.40 # 504
KA/w.r./andesite dike Palo Verde volcanics Shafiqullah and others, 1980
Palo Verde Hills -- 1.3 m-thick andesite dike that intrudes volcanic units. Also reported by Schoustra and others (1976). Arlington quad., MA county (33° 23.90', 112° 55.00'). L-1, K%= 3.3, *Ar=65, #UAKA-73-31.

20.39 ± 0.43 # 505
KA/plag/basaltic andesite Castle Dome volcanics Gutmann, 1981
Castle Dome Mtns. -- Material dated is plagioclase concentrate. Unit rests in apparent unconformity on underlying volcanics. Date attributed to Shafiqullah and Damon (personal comm.). Engesser Pass quad., YU county (33° 3.45', 113° 57.65'). L-1, #CD-72.

20.40 ± 0.90 # 506
KA/biot/ash-flow tuff Apache Leap Tuff Damon and Bikerman, 1964
Superior area -- East of Superior. In abandoned tunnel on Hwy. 60-70. Superior quad., PN county (33° 18.60', 111° 5.00'). L-1, K%= 6.8, *Ar=54, #PED-04-62.

20.40 ± 0.60 # 507
KA/w.r./rhyolite dike Castle Dome volcanics Logan and Hirsch, 1982
Castle Dome Mtns. -- Rhyolite porphyry dike in SE section of dike swarm. Castle Dome Mtns. quad., YU county (33° 2.10', 114° 9.85'). L-7, K%= 8.7, *Ar=45, #CD-09.

20.40 ± 0.40 # 508
KA/w.r./porphyritic andesite Turkey Track porphyry (?) Richter and others, 1983
Peloncillo Mtns. -- South of Thumb Butte. No analytical data reported. Guthrie quad., GM county (32° 48.88', 109° 20.52'). L-1, #R83:H.

20.41 ± 0.52 # 509
KA/w.r./basaltic andesite Palo Verde volcanics Shafiqullah and others, 1980
Arlington Valley — Basaltic andesite flow exposed on a small hill adjacent to the west abutment of Gillespie Dam. Unit is tilted 35 to 40 degrees to the west. Hill is surrounded by a 2- to 3-m.y.-old lava flow from the nearby Gillespie volcano. Spring Mtn. quad., MA county (33° 13.70', 112° 46.30'). L-1, K%= 1.2, *Ar=65, #UAKA-73-08.

20.44 ± 0.45 # 510
KA/w.r./olivine basalt Maricopa Mtns. basalt Shafiqullah and others, 1980
Maricopa Mtns. — Olivine basalt lava flow that caps an alluvial surface developed on fanglomerate extending southward from the Maricopa Mountains. Lost Horse Peak quad., MA county (32° 50.51', 112° 18.38'). L-1, K%= 0.5, *Ar=67, #UAKA-74-39.

20.50 ± 2.10 ** # 511
FT/apat/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. — Samaniego Ridge. Also referred to as quartz monzonite of Samaniego Ridge. Date reflects cooling of middle Tertiary pluton. Biotite from this sample yields a 23.8 m.y. K-Ar age. Oracle quad., PN county (32° 31.50', 110° 48.00'). L-2, #BR-16.

20.50 ± 1.00 ** # 512
FT/zirc/lithic tuff Dos Cabezas lithic tuff Drewes, 1985
Dos Cabezas Mtns. — Field relations suggest a Paleocene or Upper Cretaceous age; this date is thought to reflect a post-emplacement annealing event. No analytical data reported. Dos Cabezas quad., CH county (32° 12.38', 109° 36.55'). L-2.

20.50 ± 1.10 # 513
KA/biot/andesite Bouse Hills andesite Eberly and Stanley, 1978
Bouse Hills — Probably part of untilted volcanic section. Utting quad., LP county (33° 56.62', 113° 55.52'). L-B, K%= 7.5, *Ar=59, #ES:90.

20.50 ± 1.30 # 514
KA/w.r./basalt New River basalt Eberly and Stanley, 1978
Agua Fria area -- Basalt underlies white tuff and clastics. New River quad., MA county (33° 58.10', 112° 7.60'). L-B, K%= 1.8, *Ar=43, #ES:63.

20.50 ± 10.00 # 515
KA/w.r./andesitic basalt Exxon Yuma-Federal No. 1 volc. Eberly and Stanley, 1978
Yuma Desert — Cuttings from 3078-3108 m in Exxon Yuma-Federal No. 1. Interpreted to be intrusive. South of Yuma quad., YU county (32° 29.00', 114° 44.50'). L-B, K%= 1.1, *Ar=3, #ES:115.

20.50 ± 2.60 # 516
KA/w.r./basalt John Jacobs No. 2 basalt Eberly and Stanley, 1978
Phoenix Mtns. area -- Glendale. From 380-382 m in John Jacobs Probe No. 2. Glendale quad., MA county (33° 35.00', 112° 7.70'). L-B, K%= 0.7, *Ar=16, #ES:58.

20.50 ± 3.10 ** # 517
KA/w.r./basalt Osborne Wash Fm. Eberly and Stanley, 1978
Buckskin Mtns. — Western part, at Black Peak. Date older than most on this formation. Black Peak quad., LP county (34° 7.30', 114° 13.08'). L-B, K%= 1.4, *Ar=13, #ES:89.

20.50 ± 0.40 ** # 518
KA/biot/granodiorite South Mtns. Granodiorite Reynolds, 1985
South Mtns. -- Slightly mylonitic. Cooling age on 22-25 m.y.-old pluton. Also reported by Reynolds and others (1986). Lone Butte quad., MA county (33° 20.57', 112° 2.52'). L-1, K%= 7.3, *Ar=81, #UAKA-78-80.

20.50 ± 1.00 ** # 519
KA/biot/dacite Peacock Mtns. volcanics Goff and others, 1983
Peacock Mtns. area -- Black Mesa, east of Peacock Mtns. Date on porphyritic dacite may be too old. Unit was mapped as overlying Peach Springs Tuff, but tuff may instead fill a swale on side of the dacite flow. Generalized lat-lon. Tin Mtn. NW quad., MO county (35° 10.00', 113° 40.00'). L-7, K%= 6.2, *Ar=48, #F78-59.

20.50 ± 0.00 # 520
KA/biot/ Ninemile Peak volcanics Tosdal and others, 1986
Ajo Range -- Whitish-gray, yellowish-brown, maroon-brown, gray, and black rhyolite, rhyodacite, and dacite flows. Rock type and analytical data not reported. Generalized lat-lon. Mt. Ajo quad., PM county (32° 11.16', 112° 34.60'). L-3, #T86:5.

20.60 ± 0.62 # 521
KA/biot/dacite Superstition volcanics Shafiqullah and others, 1980
Superstition Mtns. — Near Willow Springs Caldera. Sample PED-16-68. Mormon Flat Dam quad., MA county (33° 31.18', 111° 27.42'). L-1, K%= 7.2, *Ar=69, #UAKA-68-16.

20.62 ± 1.07 # 522
KA/w.r./basalt Canyon Creek basalt Peirce and others, 1979
Carrizo Embayment -- Basalt flow above gravel, both of which are deformed by the Canyon Creek fault. Oak Creek Ranch quad., GI county (34°0.49', 110° 40.59'). L-1, K%= 0.5, *Ar=22, #UAKA-76-94.

20.62 ± 0.42 # 523
KA/w.r./basaltic andesite Bonita Creek volcanics Scarborough and Wilt, 1979
Gila Mtns. -- Lower Bonita Creek. Underlies the type Gila Conglomerate and merges with a thick volcanic sequence to the south. Guthrie quad., GM county (32° 53.21', 109° 29.84'). L-1, K%= 3.2, *Ar=93, #UAKA-78-32.

20.70 ± 0.60 # 524
KA/biot/rhyodacite Plomosa volcanics Miller and McKee, 1971
Plomosa Mtns. -- Rhyodacite that unconformably overlies thrust faults and is cut to the south by N70W-trending faults with apparent right-lateral, strike-slip movement. Quartzsite quad., LP county (33° 35.17', 114° 2.63'). L-3, K%= 7.0, *Ar=72, #QQ.

20.70 ± 0.50 # 525
KA/w.r./basalt Palo Verde volcanics Shafiqullah and others, 1980
Palo Verde Hills -- Lowermost flow in a sequence of basalt flows. Also reported by Schoustra and others (1976). Arlington quad., MA county (33° 23.30', 112° 48.80'). L-1, K%= 0.6, *Ar=47, #UAKA-73-33.

20.70 ± 0.60 # 526
KA/biot/rhyolite dike Sauceda volcanics Gray and Miller, 1984
Sauceda Mtns. -- Rhyolite vitrophyre. Rhyolite flows overlie porphyritic basalt in the area. Sample represents dike from a large NW-SE trending rhyolitic vent complex. Hat Mtn. quad., MA county (32° 39.50', 112° 44.33'). L-3, K%= 7.1, *Ar=42, #81AG206.

20.70 ± 0.60 # 527
KA/w.r./basaltic andesite Fort Rock volcanics Goff and others, 1983
Aquarius Mtns. -- Flows were mapped as equivalent to ones that overlie Peach Springs Tuff to the north. They may interfinger with Peach Springs Tuff. Fort Rock Ranch quad., MO county (35° 14.00', 113° 20.00'). L-7, K%= 3.2, *Ar=66, #BA78-73.

20.70 ± 0.50 ** # 528
KA/k-sp/latite Horseshoe Canyon volcanics Bryan, 1986
Chiricahua Mtns. -- Porphyritic latite thick from base of a hill about 1 km into Horseshoe Canyon on the south side. Field relations show that this age is too young. Should be older than UAKA-84-89. Portal quad., CH county (31° 46.37', 109° 12.05'). L-1, K%= 5.0, *Ar=90, #UAKA-84-88.

20.74 ± 0.50 ** # 529
KA/w.r./K-rich volcanic Picacho Peak volcanics Shafiqullah and others, 1976
Picacho Peak -- Massive K-rich flow (?) from a small, isolated hill in the pass between the Picacho Mountains and Picacho Peak. Probably K-metasomatized. Newman Peak quad., PN county (32° 39.83', 111° 23.43'). L-1, K%= 9.6, *Ar=56, #UAKA-75-29.

20.86 ± 1.00 ** # 530
KA/biot/granite Wood Camp Canyon granite Balla, 1972
Superior area -- North of Superior. Material dated is a biotite-chlorite mix. Average of two dates from the same sample. Superior quad., PN county (33° 22.47', 111° 5.83'). L-6, K%= 1.7, *Ar=28, #KA-71-44.

20.90 ± 2.10 ** # 531
FT/apat/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Western side, north of Cargodera Canyon. Sphene-bearing, medium-grained granite, also referred to as quartz monzonite of Samaniego Ridge. Hornblende and biotite from sample yield 22.9 m.y. and 24.6 m.y. K-Ar ages respectively. Mt. Lemmon quad., PM county (32° 27.50', 110° 52.00'). L-2, #ML-61.

20.90 ± 0.53 # 532
KA/w.r./basalt Eagletail volcanics Shafiqullah and others, 1980
Eagletail Mtns. -- Flat-lying basalt flow remnant that overlies tilted dacite and trachyandesite flows. Lone Mtn. quad., LP county (33° 32.92', 113° 26.50'). L-1, K%= 1.0, *Ar=67, #UAKA-73-107.

21.00 ± 1.00 # 533
KA/w.r./andesite Exxon State 14-1 volcanics Eberly and Stanley, 1978
Palomas Plain -- North of Hyder. Cuttings from 229-238 m in Exxon State (14)-1. Sample ES:103. Hyder NE quad., YU county (33° 8.20', 113° 21.00'). L-B, K%= 2.4, *Ar=83, #UAKA-72-54.

21.00 ± 0.30 # 534
KA/w.r./trachyte **Santa Catalina trachyte dike** Shakel, 1974
Santa Catalina Mtns. — Trachyte dike that cuts mylonitic rocks. Dike is cut by red, hematitic, breccia veins. Sabino Canyon quad., PM county (32° 21.50', 110° 51.50'). L-1, #UAKA-72-21.

21.00 ± 0.50 # 535
KA/w.r./basalt **San Manuel Fm. (?)** Jennison, 1976
Tortolita Mtns. — Owl Head Buttes. Flow within clastic unit that is probably correlative with San Manuel Fm. Analytical data not reported. Generalized lat-lon. Tortolita Mtns. quad., PN county (32° 35.50', 111° 7.50'). L-1, C-?, #OHB.

21.03 ± 0.54 ** # 536
KA/w.r./K-rich volcanic **Turtleback Mtn. volcanic** Shafiqullah and others, 1980
Palomas Plain — Turtleback Mtn. K-rich flow that is tilted 45 deg to the northeast on Turtleback Mtn., north of Hyder. Probably K-metasomatized. Also reported by Eberly and Stanley (1978). Sample ES:104. Turtleback Mtn. quad., YU county (33° 8.18', 113° 23.87'). L-1, K%= 7.8, *Ar=65, #UAKA-72-48.

21.10 ± 0.60 ** # 537
KA/biot/granite **Catalina granite** Creasey and others, 1977
Santa Catalina Mtns. -- Samaniego Ridge. Biotite-hornblende-sphene-bearing granite, also referred to as quartz monzonite of Samaniego Ridge. Date is cooling age on middle Tertiary pluton. Ruelas Canyon quad., PN county (32° 29.50', 111°0.04'). L-3, K%= 7.2, *Ar=53, #RC3-1.

21.17 ± 0.60 # 538
KA/w.r./andesite **Samaniego andesite** Eastwood, 1970
Silver Bell Mtns. -- Samaniego Hills. Aphanitic andesite that overlies the Cerro Prieta basalt and underlies the Sasco andesite. Samaniego Hills quad., PN county (32° 31.25', 111° 25.67'). L-1, K%= 3.6, *Ar=61, #RLE-29-67.

21.20 ± 2.10 ** # 539
KA/k-sp/vein **Oatman vein** DeWitt and Thorson, in press
Black Mtns. — Oatman area, Kokomo vein. Material dated is adularia (?) plus quartz (?). Date attributed to Conoco Minerals Company. Oatman (?) quad., MO county (35° 2.00', 114° 24.00'). K%= 2.6, #DT:5.

21.20 ± 0.40 # 540
KA/w.r./rhyolite **Guthrie low-silica rhyolite** Richter and others, 1983
Peloncillo Mtns. -- West side of range, south of highway. Low-silica, porphyritic rhyolite flows. No analytical data reported. Guthrie quad., GM county (32° 48.12', 109° 24.15'). L-1, #R83:B.

21.28 ± 0.51 # 541
KA/w.r./trachyandesite **Sullivan Buttes Latite** Shafiqullah and others, 1980
Chino Valley -- Trachyandesite that forms rounded hills north of Granite Creek, on the east side of Chino Valley. Host rock for eclogite and pyroxenite nodules. King Canyon quad., YA county (34° 46.40', 112° 20.41'). L-1, K%= 3.8, *Ar=90, #UAKA-76-90.

21.30 ± 0.00 # 542
KA/biot/ **Ninemile Peak volcanics** Tosdal and others, 1986
Ajo Range — Whitish-gray, yellowish-brown, maroon-brown, gray, and black rhyolite, rhyodacite, and dacite flows. Rock type dated and analytical data not reported. Generalized lat-lon. Mt. Ajo quad., PM county (32° 11.16', 112° 34.60'). L-3, #T86:6.

21.34 ± 0.46 # 543
KA/w.r./basalt **Cave Creek area basalt** Scarborough and Wilt, 1979
Cave Creek area — Unconformably overlies lithic tuff. Basal portions of flow are very crumbly, well fractured, and weathered. Sample correlates with PED-05-70, the olivine basalt that overlies Oreodont Mammal locality. New River Mesa quad., MA county (33° 53.81', 111° 57.21'). L-1, K%= 0.7, *Ar=69, #UAKA-77-108.

21.37 ± 0.53 # 544
KA/w.r./basalt **Table Top basalt** Shafiqullah and others, 1980
Table Top Mtns. -- Basalt flow about 50 meters above the base of the basalt sequence. Flow dips west-southwest about 25 degrees and overlies Precambrian Apache Group and weakly consolidated alluvium. Vekol Mtns. NE quad., PN county (32° 44.51', 112° 7.36'). L-1, K%= 0.8, *Ar=76, #UAKA-75-04.

21.40 ± 2.50 ** # 545
FT/apat/mafic inclusion **Catalina granite inclusion** Creasey and others, 1977
Santa Catalina Mtns. -- Cargodera Canyon. Mafic inclusion in middle Tertiary Catalina granite, which is also called quartz monzonite of Samaniego Ridge. Biotite and hornblende from this sample yield 24.1 m.y. and 36.8 m.y. K-Ar ages respectively. Oro Valley quad., PM county (32° 27.50', 110° 53.00'). L-2, #ML-60.

21.40 ± 0.50 # 546
KA/w.r./andesite Superstition volcanics Scarborough, 1981
Superstition Mtns. — Southern margin of Apache Lake, east end of Horse Mesa. Analysis from groundmass of andesite flow from basal sequence of Superstition volcanics that rests on Precambrian granite along southern margin of lake. Horse Mesa Dam quad., MA county (33° 34.43', 111° 15.32'). L-1, K%= 1.8, *Ar=76, #UAKA-81-31.

21.60 ± 3.60 # 547
KA/w.r./basalt Artillery Fm. Eberly and Stanley, 1978
Artillery Mtns. — Upper part of Artillery Fm. Artillery Peak quad., MO county (34° 19.92', 113° 35.54'). L-B, K%= 0.4, *Ar=12, #ES:85.

21.60 ± 2.00 # 548
KA/w.r./basalt Ajo volcanics Eberly and Stanley, 1978
Crater Range — Eastern part. Midway quad., PM county (32° 33.05', 112° 53.72'). L-B, K%= 2.0, *Ar=63, #ES:107.

21.68 ± 0.57 # 549
KA/w.r./basalt Kofa volcanics Shafiqullah and others, 1980
Kofa Mtns. — Olivine basalt flow that dips 30 degrees southwest, overlies gravel above UAKA-73-18 flow (23.6 m.y.), and is unconformably beneath UAKA-73-108 flow (18.3 m.y.). Kofa Butte quad., LP county (33° 27.50', 113° 54.08'). L-1, K%= 1.1, *Ar=27, #UAKA-73-19.

21.70 ± 0.60 ** # 550
KA/horn/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. — Samaniego Ridge. Biotite-hornblende-sphene-bearing granite, also referred to as quartz monzonite of Samaniego Ridge. Date is a cooling age on middle Tertiary pluton. Ruelas Canyon quad., PN county (32° 29.50', 111° 4.00'). L-3, K%= 0.8, *Ar=50, #RC3-1.

21.70 ± 0.70 # 551
KA/biot/ash-flow tuff Sauceda volcanics Gray and Miller, 1984
Sauceda Mtns. — Ash-flow tuff in northern Sauceda Mtns. Unit overlain by capping porphyritic basalts. Hat Mtn. quad., MA county (32° 42.16', 112° 42.50'). L-3, K%= 6.8, *Ar=54, #81AM183.

21.80 ± 0.90 # 552
KA/feld/tuff Horse Mtn. Volcanics Douthitt, 1981
Aravaipa area — Stanley Butte area. Analytical data and location not published. Generalized lat-lon. San Carlos Reservoir (?) quad., GM county (33° 1.00', 110° 22.00'). L-5, C-?.

21.80 ± 0.70 # 553
KA/horn/dacite Sand Tank volcanics Gray and Miller, 1984
Sand Tank Mtns. — Dacite flow in the central Sand Tank Mtns. Earliest flows of middle volcanic sequence associated with large dacite dome. Kaka quad., MA county (32° 37.85', 112° 23.58'). L-3, K%= 0.6, *Ar=38, #AA1128.

21.80 ± 0.50 # 554
KA/w.r./andesite Guthrie Peak andesite Richter and others, 1983
Peloncillo Mtns. — Near south end of Rhyolite Peak. No analytical data reported. Guthrie quad., GM county (32° 47.41', 109° 17.11'). L-1, #R83:G.

21.80 ± 0.70 # 555
KA/biot/andesite Charlie Bell Pass andesite Gray and others, 1985
Growler Mtns. — Medium grained porphyritic volcanic rocks which outcrop mainly in the northwestern part of the Growler Mtns. as the lowest unit exposed in the area. No analytical data reported. Generalized lat-lon. Growler Peak quad., PM county (32° 23.66', 113° 5.10'). L-3, #G85:2.

21.85 ± 0.80 # 556
KA/biot/quartz latite Superstition volcanics Damon and others, 1969
Superstition Mtns. — Quartz latite lava near Willow Springs Caldera. Major faulting in the area terminated following emplacement of this lava. This sample along with PED-16-68 brackets the time of major faulting. Apache Junction quad., MA county (33° 28.35', 111° 34.75'). L-1, K%= 7.4, *Ar=36, #PED-17-68.

21.86 ± 0.90 # 557
KA/w.r./aphanitic dike Exxon State 14-1 volcanics Eberly and Stanley, 1978
Palomas Plain — North of Hyder. Aphanitic volcanic rock that is highly brecciated and veined with calcite, from 799 m in Exxon State (14)-1. Interpreted to be a dike. Sample ES:103. Hyder NE quad., YU county (33° 8.20', 113° 21.00'). L-1, K%= 3.9, *Ar=92, #UAKA-72-58.

21.87 ± 0.60 # 558
KA/sani/rhyolite Cave Creek fm. Marjaniemi, 1969
Chiricahua Mtns. — Rancho Risco member lower rhyolites. Sample taken 15 m above base of member. Fife Peak quad., CH county (31° 54.17', 109° 28.43'). L-1, K%=11.8, *Ar=93, #DM-04-67.

21.90 ± 1.92 # 559
KA/w.r./basalt **Blue House Mtn. basalt** Peirce and others, 1979
Carrizo Embayment — Blue House Mtn. Flat-lying basalt cap above gravel that overlies basal Supai Fm. Blue House Mtn. quad., GI county (33° 58.33', 110° 34.70'). L-1, K%= 0.9, *Ar=5, #UAKA-76-109.

21.90 ± 0.80 ** # 560
KA/biot/quartz monzonite **Wrong Mtn. Quartz Monzonite** Marvin and others, 1978
Rincon Mtns. -- Wrong Mtn. Quartz Monzonite. Date is cooling age on pluton that is correlative with the Eocene Wilderness granite. Muscovite age of 35.1 m.y. on same sample. Piety Hill quad., PM county (32° 19.00', 110° 32.50'). L-2, K%= 6.4, *Ar=51, #M78:101.

21.90 ± 0.70 # 561
KA/biot/rhyolitic tuff **Sand Tank volcanics** Gray and Miller, 1984
Sand Tank Mtns. -- Crystal-rich rhyolitic tuff at the north end of range. Tuff is interbedded with olivine basalt flows. Big Horn quad., MA county (32° 49.80', 112° 29.16'). L-3, K%= 6.8, *Ar=80, #83AM82.

21.90 ± 1.50 # 562
KA/plag/volcanic breccia **Eichelberger exotic breccia** Hankins, 1984
Kofa Mtns. -- Kofa mine area. Volcanic agglomerate. Kofa Butte quad., YU county (33° 15.67', 113° 57.57'). L-7, K%= 4.1, *Ar=19, #KA2560.

22.00 ± 4.00 # 563
PB/zirc/granodiorite **South Mtns. Granodiorite** Reynolds and others, 1986
South Mtns. -- Lower intercept on discordia constructed from four zircon separates. Upper intercept yields an age of 1626 +/- 175 m.y. Lone Butte quad., MA county (33° 20.27', 112° 3.23'). L-2.

22.00 ± 0.70 # 564
KA/biot/rhyodacite tuff **Ajo volcanics** Gray and Miller, 1984
Growler Mtns. -- Rhyodacite crystalline tuff located on west flank of Growler Mtns. Overlies the Sneed Andesite and underlies flows equivalent to the Childs Latite. Growler Peak quad., PM county (32° 26.66', 113° 6.50'). L-3, K%= 6.7, *Ar=54, #81AM96.

22.00 ± 0.70 # 565
KA/w.r./basalt dike **Fort Rock volcanics** Goff and others, 1983
Aquarius Mtns. -- Hornblende-olivine basalt dike cuts Fort Rock Creek tuff. Rock contained 2 percent K, so may not be a true basalt. Bull Springs quad., MO county (35° 12.00', 113° 25.00'). L-7, K%= 2.0, *Ar=58, #F78-85.

22.00 ± 0.70 # 566
KA/biot/andesite **Charlie Bell Pass andesite** Gray and others, 1985
Growler Mtns. -- Medium-grained-porphyritic volcanic rocks that outcrop mainly in the northwestern part of the Growler Mtns. No analytical data reported. Generalized lat-lon. Growler Peak quad., PM county (32° 23.66', 113° 5.10'). L-3, #G85:2.

22.06 ± 1.50 # 567
KA/horn/quartz diorite **Silver King quartz diorite** Balla, 1972
Superior area — North of Superior. Stock possibly older, because it is reportedly depositionally overlain by Whitetail Conglomerate. Average of two dates from the same sample. Superior quad., PN county (33° 20.02', 111° 4.85'). L-6, K%= 1.9, *Ar=21, #KA-71-41.

22.06 ± 0.45 # 568
KA/biot/andesite **Sasco andesite** Shafiqullah and others, 1976
Silver Bell Mtns. -- Samaniego Hills. Sasco andesite flow that overlies brecciated andesite and is the youngest unit in Sasco area. Samaniego Hills quad., PN county (32° 32.92', 111° 27.88'). L-1, K%= 6.8, *Ar=74, #UAKA-73-141.

22.10 ± 0.50 # 569
KA/w.r./basalt **San Manuel Fm.** Weibel, 1981
San Manuel area -- Basal flow. Analytical data and location not reported. Oracle quad., PN county (32° 37.50', 110° 45.00'). L-1.

22.10 ± 1.30 ** # 570
KA/biot/diorite dike **Harquahala diorite dike** Shafiqullah and others, 1980
Harquahala Mtns. — Northwest-trending diorite dike that cuts metamorphic, mylonitic, and granitic rocks. Hornblende age on same sample is 28.6 m.y. Gladden quad., MA county (33° 45.70', 113° 17.80'). L-5, K%= 4.9, *Ar=84, #HLA-2.

22.10 ± 0.80 # 571
KA/biot/rhyodacite **McLendon Peak rhyodacite** Brooks, 1984
Date Creek Basin area — Central part of Black Mtns. Rhyodacite flows of McLendon Peak. No analytical data reported. Date Creek Ranch NW quad., YA county (34° 13.65', 113° 10.80'). L-2, #210-79.

22.15 ± 1.30 # 572
KA/w.r./basalt Cerro Prieto basalt Eastwood, 1970
Silver Bell Mtns. — Cerro Prieto. Contains olivine set in a black mat of plagioclase laths and pyroxene. Overlies clastic rocks and underlies Samaniego aphanitic andesite. Silver Bell Peak quad., PM county (32° 28.25', 111° 25.00'). L-1, K%= 0.9, *Ar=30, #RLE-31-68.

22.20 ± 0.47 # 573
KA/biot/rhyolite Castle Dome volcanics Gutmann, 1981
Castle Dome Mtns. — Stone Cabin. Rhyolite lava flow. These volcanics have been downfaulted to their present position relative to the main mass of Castle Dome volcanics to the east. Date attributed to Shafiqullah and Damon (1980, personal comm.). Livingston Hills quad., YU county (33° 15.99', 114° 14.67'). L-1, #CD-77.

22.20 ± 0.50 # 574
KA/w.r./andesite Guthrie Peak andesite Richter and others, 1983
Peloncillo Mtns. -- West side of range by highway. No analytical data reported. Guthrie quad., GM county (32° 50.89', 109° 20.25'). L-1, #R83:F.

22.28 ± 0.47 # 575
KA/biot/rhyolitic tuff Castle Dome volcanics Gutmann, 1981
Castle Dome Mtns. — Zeolite workings, 4 km south of Stone Cabin. These rocks have been downfaulted relative to the main mass of Castle Dome volcanic pile to the east. Date attributed to Shafiqullah and Damon (1980, personal comm.). Castle Dome Mtns. quad., YU county (33° 13.78', 114° 14.98'). L-1, #CD-92.

22.30 ± 0.70 # 576
KA/biot/rhyolite dike Tortilla Mtns. dike Krieger, 1974c
Tortilla Mtns. — Putnam Wash. NW-trending dike north of Putnam Wash. Analytical data not published. Location from Johnson and Todd (1973). Putnam Wash quad., PN county (32° 50.00', 110° 45.50'). L-3, C-?.

22.33 ± 3.00 ** # 577
KA/biot/granite Stronghold Granite Damon and Bikerman, 1964
Dragoon Mtns. — K and Ar aliquots were from separate vials and may not be exactly equivalent. Pearce quad., CH county (31° 55.40', 109° 58.00'). L-1, K%= 6.5, *Ar=43, #CMB-01-62.

22.40 ± 0.80 # 578
KA/biot/andesite Fort Rock volcanics Goff and others, 1983
Aquarius Mtns. -- Biotite-pyroxene andesite dome and flow overlain and surrounded by younger basalt flows. Fort Rock Ranch quad., YA county (35° 11.00', 113° 18.00'). L-7, K%= 6.6, *Ar=61, #F78-88.

22.40 ± 0.00 # 579
KA/biot/ Ninemile Peak volcanics Tosdal and others, 1986
Ajo Range -- Whitish-gray, yellowish-brown, maroon-brown, gray, and black rhyolite, rhyodacite, and dacite flows. Rock type dated and analytical data not reported. Generalized lat-lon. Mt. Ajo quad., PM county (32° 11.16', 112° 34.60'). L-3, #T86:7.

22.42 ± 0.50 # 580
KA/horn/K-rich volcanic Picacho Peak volcanics Shafiqullah and others, 1976
Picacho Peak — Hornblende trachyandesite within thick agglomerate unit on south flank of peak. Newman Peak quad., PN county (32° 37.83', 111° 23.50'). L-1, K%= 0.8, *Ar=58, #UAKA-75-85.

22.42 ± 0.47 # 581
KA/w.r./K-rich volcanic Picacho Peak volcanics Shafiqullah and others, 1976
Picacho Peak — Trachyandesite on south side. Newman Peak quad., PN county (32° 37.93', 111° 23.52'). L-1, K%= 3.0, *Ar=94, #UAKA-75-28.

22.44 ± 0.47 # 582
KA/w.r./K-rich volcanic Picacho Peak volcanics Shafiqullah and others, 1976
Picacho Peak -- Trachyandesite interbedded between two Wymola conglomerate units, southeastern part of Picacho Ridge. Newman Peak quad., PN county (32° 37.58', 111° 23.50'). L-1, K%= 2.8, *Ar=84, #UAKA-75-27.

22.50 ± 4.30 ** # 583
FT/apat/quartz monzonite Silver Bell porphyry Banks and others, 1978a
Silver Bell Mtns. — Porphyritic granodiorite-quartz monzonite of Laramide age. Interpreted as reset age due to regional thermal event. Vaca Hills quad., PM county (32° 23.87', 111° 31.77'). L-2, #VHNE-168N.

22.50 ± 0.50 # 584
KA/sani/rhyolite Cloudburst Fm. Weibel, 1981
San Manuel area -- Rhyolite cobble bed just beneath top of unit. Precise location and analytical data not reported. Generalized lat-lon. Oracle quad., PN county (32° 37.50', 110° 45.00'). L-1.

22.50 ± 0.70 # 585
KA/biot/rhyolite tuff Kinter Fm. (?) Shafiqullah and others, 1980
Muggins Mtns. — Rhyolite tuff interbedded with reddish-brown arkosic sandstone about 120 meters stratigraphically below the mammal fossil locality. Red Bluff Mtn. quad., YU county (32° 45.28', 114° 7.90'). L-1, K%= 6.9, *Ar=43, #UAKA-67-23.

22.60 ± 1.90 ** # 586
KA/w.r./K-rich volcanic Biery No. 1 Federal volcanics Eberly and Stanley, 1978
Paradise Valley — Depth of 1430-1442 m in Biery No. 1 Federal. Date on similar interval reported by Shafiqullah and others (1980). Currys Corner quad., MA county (33° 42.00', 111° 58.00'). L-B, K%= 6.6, *Ar=63, #ES:62.

22.60 ± 0.00 ** # 587
KA/w.r./basalt Burro Creek basalt Eberly and Stanley, 1978
Burro Creek area — Near Burro Creek, along Hwy. 93, south of Wickieup. Date is probably too old. Kaiser Spring quad., MO county (34° 33.00', 113° 25.00'). L-B, K%= 0.5, *Ar=14, #ES:84.

22.60 ± 1.90 # 588
KA/w.r./basalt Sperry Gyroscope volcanics Eberly and Stanley, 1978
Union Hills area — From 222-271 m in Sperry Gyroscope No. 1, north of Phoenix. Dated material is listed as biotite in original reference, but contains 0.9 percent K, so is probably a whole-rock date. Union Hills quad., MA county (33° 41.50', 112° 6.00'). L-B, K%= 0.9, *Ar=26, #ES:61.

22.60 ± 0.90 # 589
KA/w.r./basalt Superstition volcanics Scarborough, 1981
Superstition Mtns. — Northeast side of Tortilla Creek, across from Tortilla Flat campground. Basalt flow that underlies extensive fanglomerate around Tortilla Flat and overlies white tuff beds and dacite flows. Mormon Flat Dam quad., MA county (33° 31.72', 111° 23.55'). L-1, K%= 0.5, *Ar=32, #UAKA-81-30.

22.60 ± 0.50 # 590
KA/w.r./andesite Guthrie Peak andesite Richter and others, 1983
Peloncillo Mtns. — Near south end of Rhyolite Peak. No analytical data reported. Guthrie quad., GN county (32° 47.53', 109° 16.97'). L-1, #R83:E.

22.63 ± 0.48 ** # 591
KA/w.r./K-rich volcanic Picacho Peak volcanics Shafiqullah and others, 1976
Picacho Peak -- Unit near summit. Overlies granitic material. Probably K-metasomatised. Newman Peak quad., PN county (32° 38.12', 111° 26.00'). L-1, K%= 6.7, *Ar=94, #UAKA-75-76.

22.65 ± 0.54 ** # 592
KA/w.r./K-rich volcanic Biery No. 1 Federal volcanics Shafiqullah and others, 1980
Paradise Valley -- Drill chips, 1420-1440 m in Biery No. 1 Federal. Flow overlies consolidated red beds and underlies coarse clastic deposits with intercalated evaporite beds. 22.6 Ma date reported from a similar depth. May be K-metasomatized. Currys Corner quad., MA county (33° 42.30', 111° 58.00'). L-1, K%= 6.2, *Ar=88, #UAKA-74-148.

22.70 ± 0.70 # 593
KA/biot/quartz monzonite Tortolita Quartz Monzonite Creasey and others, 1977
Tortolita Mtns. -- Fine-grained and slightly foliated. Ruelas Canyon quad., PM county (32° 28.00', 111°0.02'). L-3, K%= 7.0, *Ar=69, #RC-25.

22.70 ± 1.10 # 594
KA/plag/trachyandesite Vaca Hills volcanics Banks and others, 1978a
Silver Bell Mtns. -- Vaca Hills. Vesicular trachyandesite. Vaca Hills quad., PM county (32° 16.70', 111° 42.10'). L-3, K%= 0.5, *Ar=29, #VHSW-3N.

22.78 ± 0.48 # 595
KA/w.r./andesite Galiuro Volcanics Scarborough and Wilt, 1979
Galiuro Mtns. -- Northern part. Base of massive flow in middle of the upper andesite unit that overlies the Apsey conglomerate, which in turn overlies the Hells Half Acre Tuff and Arivaipa Tuff members of the Galiuro Volcanics. Holy Joe Peak quad., PN county (32° 49.74', 110° 31.26'). L-1, K%= 1.8, *Ar=88, #UAKA-76-96.

22.80 ± 0.55 # 596
KA/biot/biotite granite Santa Teresa Granite Shafiqullah and others, 1980
Santa Teresa Mtns. -- Southeast of junction of Black Rock Canyon and Goat Canyon. Coarse-grained granite. Cobre Grande Mtn. quad., GM county (32° 54.80', 110° 16.10'). L-1, K%= 8.0, *Ar=83, #UAKA-75-21.

22.80 ± 0.70 # 597
KA/biot/rhyolite dike Tortilla Mtns. dike Marvin and Dobson, 1979
Tortilla Mtns. -- Putnam Wash. Large rhyolite dike north of Putnam Wash. Intrudes Pinal Schist, Ruin Granite, and diabase. Putnam Wash quad., PN county (32° 50.00', 110° 45.50'). L-2, K%= 7.2, *Ar=74, #W-10.

22.80 ± 0.00 # 598
KA/w.r./basaltic andesite Javelina andesite Richter and others, 1981
Whitlock Mtns. — On top of hill at north end of Whitlock Valley. No analytical data reported. Whitlock Mtns. NE quad., GM county (32° 41.23', 109° 17.14'). L-1, #R81:B.

22.90 ± 0.70 ** # 599
KA/horn/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Western side, north of Cargodera Canyon. Sphene-bearing, medium-grained granite, also referred to as quartz monzonite of Samaniego Ridge. Cooling age on 27-m.y.-old pluton. Mt. Lemmon quad., PM county (32° 27.50', 110° 52.00'). L-3, K%= 0.8, *Ar=39, #ML-61.

23.10 ± 1.80 # 600
KA/horn/granophyre porphyry Times Porphyry Thorson, 1971
Black Mtns. — Oatman. Core phase of Times porphyry, a domal or laccolith-like mass of granophyre that intruded into a collapsed caldera and associated lava flows and sedimentary rocks. Interpreted as a resurgent dome. Oatman quad., MO county (35° 4.00', 114° 26.70'). K%= 0.8, *Ar=12, #79.

23.10 ± 0.70 # 601
KA/sani/tuff Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. — Hells Half Acre tuff member. Location from Johnson and Todd (1973). Saddle Mtn. quad., PN county (32° 54.87', 110° 38.17'). L-3, K%= 5.5, *Ar=89, #CK:16.

23.10 ± 0.50 ** # 602
KA/musc/granite Wilderness granite Keith and others, 1980
Santa Catalina Mtns. -- Forerange. Analytical data not published. Represents cooling age on early Tertiary pluton. Tucson North quad., PM county (32° 20.60', 110° 55.40'). L-1, #UAKA-71-11.

23.10 ± 0.50 # 603
KA/biot/rhyolite Ash Peak Canyon rhyolite Richter and others, 1983
Peloncillo Mtns. — Near Ash Peak Canyon. No analytical data reported. Guthrie quad., GM county (32° 46.47', 109° 16.91'). L-1, #R83:I.

23.10 ± 2.50 # 604
KA/w.r./andesite Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. -- Southwestern part of range. Dike believed to be feeder for some of upper-plate volcanic flows. Picacho NW quad., LP county (33° 7.90', 114° 39.92'). L-7, K%= 3.5, *Ar=15, #2175.

23.13 ± 1.00 # 605
KA/biot/welded tuff Superstition volcanics Damon and others, 1969
Superstition Mtns. -- Black Mesa caldera. Goldfield quad., MA county (33° 28.60', 111° 25.68'). L-1, K%= 7.4, *Ar=35, #PED-18-68.

23.20 ± 0.00 # 606
KA/biot/rhyolite Soapweed rhyolite Richter and others, 1981
Whitlock Mtns. — Northeast of Soapweed Tank. No analytical data reported. Whitlock Mtns. NE quad., GM county (32° 42.85', 109° 15.53'). L-1, #R81:C.

23.30 ± 5.80 ** # 607
FT/apat/granite Wrong Mtn. Quartz Monzonite Marvin and Cole, 1978
Rincon Mtns. -- Weakly foliated. Equivalent to early Tertiary Wilderness Granite. Galleta Flat West quad., PM county (32° 7.00', 110° 28.00'). L-2, #71D17.

23.30 ± 0.70 ** # 608
KA/biot/granite Wilderness granite Creasey and others, 1977
Santa Catalina Mtns. -- Windy Point. Mylonitically foliated, gneissic, two-mica granite of early Tertiary age. Other dates on same locality, including 24.7 m.y. on muscovite from same sample. Agua Caliente Hill quad., PM county (32° 22.00', 110° 43.00'). L-3, K%= 7.3, *Ar=62, #GGN-S1.

23.30 ± 2.70 # 609
KA/w.r./basalt Cave Creek area basalt Shafiqullah and others, 1980
Cave Creek area -- Basalt that overlies Oreodont mammal site at Cave Creek. New River Mesa quad., MA county (33° 53.50', 111° 57.33'). L-1, K%= 0.9, *Ar=11, #UAKA-70-05.

23.40 ± 1.40 ** # 610
SR/biot/granite Wilderness granite Livingston and others, 1967
Santa Catalina Mtns. — Hitchcock Memorial area. Model age on early Tertiary granite. A 25.40 m.y. K-Ar date was obtained from the same sample. Sri=0.7100 (assumed), 1 pt. Agua Caliente Hill quad., PM county (32° 22.10', 110° 43.00'). L-1, #PED-4A-58.

23.40 ± 0.90 ** # 611
KA/sani/ash-flow tuff Patsy Mine Volcanics Anderson and others, 1972
Black Mtns. -- Northern part. West flank of range. Densely welded, mildly altered ash-flow tuff. 19.1 m.y. whole-rock date on same sample. Black Canyon quad., MO county (35° 46.62', 114° 36.05'). L-2, K%= 7.4, *Ar=94, #BC309.

23.40 ± 0.60 # 612
KA/biot/granodiorite Pearce granodiorite Shafiqullah and others, 1978
Pearce area -- Southeast of Rockfellow Dome. Granodiorite bedrock beneath large boulders in the canyon bottom. Pearce quad., CH county (31° 55.23', 109° 58.10'). L-1, K%= 7.2, *Ar=54, #UAKA-72-67.

23.50 ± 2.80 ** # 614
FT/apat/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Western Samaniego Ridge. Sphene-bearing biotite-hornblende granite, also referred to as quartz monzonite of Samaniego Ridge. Biotite and hornblende from this sample yield 23.7 m.y. and 24.0 m.y. K-Ar ages respectively. Oracle quad., PN county (32° 31.50', 110° 50.00'). L-2, #BR-21.

23.50 ± 0.70 # 615
KA/sani/rhyolite tuff Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. -- Aravaipa Tuff member. Location from Johnson and Todd (1973). Biotite date from same sample is 26.4 m.y. Holy Joe Peak quad., PN county (32° 51.12', 110° 31.60'). L-3, K%= 6.7, *Ar=92, #CK:04.

23.50 ± 0.90 # 616
KA/biot/rhyolitic tuff Castle Dome volcanics Gutmann, 1981
Castle Dome Mtns. -- Little White Tanks. Rhyolitic ash-flow tuff. Sample from upper part of east-dipping volcanic section exposed in the range. Castle Dome Mtns. quad., YU county (33° 8.49', 114° 6.61'). L-5, K%= 6.3, *Ar=53, #CD-75.

23.50 ± 0.40 # 617
KA/biot/quartz latite Huerfano quartz latite Banks and others, 1978b
Durham-Suizo area -- The Huerfano. Porphyritic quartz latite flow. Tortolita Mtns. quad., PN county (32° 38.87', 111° 11.15'). L-3, K%= 7.2, *Ar=60, #TMN-62.

23.60 ± 1.60 # 618
KA/biot/rhyolitic tuff Clanton Hills volcanics Eberly and Stanley, 1978
Clanton Hills -- Intercalated with sedimentary rocks underlying lacustrine limestone. Eagletail Mtns. quad., YU county (33° 16.38', 113° 26.85'). L-B, K%= 8.1, *Ar=37, #ES:101.

23.60 ± 7.70 # 619
KA/w.r./basalt Isabel No. 1 basalt Eberly and Stanley, 1978
Luke Basin -- Sun City area. From 288-325 m in G. D. Isabel No. 1. Calderwood Butte quad., MA county (33° 39.40', 112° 15.20'). L-B, K%= 1.0, *Ar=6, #ES:60.

23.60 ± 2.70 # 620
KA/w.r./tuff Muggins Mtns. volcanics Eberly and Stanley, 1978
Muggins Mtns. -- Rhyolitic tuff intercalated with red clastic rocks. Red Bluff Mtn. quad., YU county (32° 47.28', 114° 6.32'). L-B, K%= 3.8, *Ar=18, #ES:110.

23.60 ± 2.00 # 621
KA/biot/rhyolite tuff Patagonia tuff Marvin and others, 1973
Patagonia Mtns. -- Hornblende date on same sample is 27.7 m.y. Harshaw quad., SC county (31° 27.67', 110° 40.00'). L-2, K%= 7.1, *Ar=20, #M73:51.

23.60 ± 5.20 # 622
KA/w.r./basalt Antelope Peak basalt Eberly and Stanley, 1978
Table Top Mtns. -- Northwest part, near Antelope Peak. Antelope Peak quad., PN county (32° 47.85', 112° 10.50'). L-B, K%= 1.2, *Ar=9, #ES:01.

23.60 ± 0.62 # 623
KA/biot/rhyolite tuff Kofa volcanics Shafiqullah and others, 1980
Kofa Mtns. -- Rhyolite ash-flow tuff that strikes northwest and dips 40 to 50 degrees northeast. Conglomerate above this flow is also tilted. Sample UAKA-73-19 (21.68 m.y.) is a flat lying lava flow that postdates the deformation. Kofa Butte quad., LP county (33° 27.97', 113° 57.20'). L-1, K%= 7.0, *Ar=61, #UAKA-73-18.

23.60 ± 0.50 ** # 624
KA/biot/granite Newman Peak granite Johnson, 1981
Picacho Mtns. -- Southern part of range. Referred to as granite gneiss. Date is a cooling age on mylonitic rocks, and is similar in age to Picacho Mtns. granite to north. Analytical data not published. Date attributed to Damon (1975, personal comm.) Picacho Reservoir quad., PN county (32° 45.35', 111° 25.75'). L-1, C-7.

23.60 ± 0.50 # 625
KA/w.r./andesite Wilson Wash andesite Houser and others, 1985
Gila Mtns. — Southern part, near head of Wilson Wash. No analytical data reported. Safford quad., GM county (32° 55.26', 109° 39.04'). L-1, #H85:A.

23.64 ± 0.51 # 626
KA/w.r./rhyolite Yellow Medicine volcanics Scarborough and Wilt, 1979
Gila Bend Mtns. — Western part of range, near Yellow Medicine Butte. Rhyolite flow intercalated in a down-faulted sequence of arkosic sandstone, mudstone, and limestone that is depositional on older crystalline rocks. Dendora Valley quad., MA county (33° 13.40', 113° 13.62'). L-1, K%= 2.6, *Ar=61, #UAKA-78-47.

23.67 ± 0.51 # 627
KA/w.r./basaltic andesite Tumamoc Hill basaltic andesite Shafiqullah and others, 1978
Tucson Mtns. — Tumamoc Hill. Basaltic andesite from uppermost unit of Tumamoc Hill. Cat Mtn. quad., PM county (32° 12.77', 111°0.35'). L-1, K%= 2.7, *Ar=89, #UAKA-76-31.

23.70 ± 0.80 # 628
KA/w.r./latite cobble Slide Rock gravels McKee and McKee, 1972
Oak Creek Canyon — Near Slide Rock Bridge. Latite cobble 20 cm below 8.0 m.y. basalt flow. Wilson Mtn. quad., CN county (34° 56.75', 111° 45.12'). L-3, K%= 3.6, *Ar=65, #MM:2B.

23.70 ± 0.70 ** # 629
KA/biot/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. — Western Samaniego Ridge. Sphene-bearing, biotite-hornblende granite, also referred to as quartz monzonite of Samaniego Ridge. Oracle quad., PN county (32° 31.50', 110° 50.00'). L-3, K%= 6.1, *Ar=64, #BR-21.

23.70 ± 0.70 # 630
KA/biot/latite tuff Eagletail volcanics Shafiqullah and others, 1980
Eagletail Mtns. — Latite ash-flow tuff that unconformably overlies basement rocks. Eagletail Mtns. quad., LP county (33° 29.05', 113° 23.83'). L-1, K%= 6.0, *Ar=78, #UAKA-72-73.

23.70 ± 0.60 # 631
KA/w.r./basalt Exxon State 14-1 volcanics Shafiqullah and others, 1980
Palomas Plain — North of Hyder. Drill chips from 180-190 m depth in Exxon State 14-1. Flow lies beneath 150 m of unconsolidated gravel. Hyder NE quad., YU county (33° 8.00', 113° 21.00'). L-1, K%= 0.8, *Ar=81, #UAKA-74-117.

23.70 ± 0.50 # 632
KA/w.r./andesite Guthrie Peak andesite Richter and others, 1983
Peloncillo Mtns. -- By Gila River, south of Gila Box. No analytical data reported. Guthrie quad., GM county (32° 53.52', 109° 28.12'). L-1, #R83:D.

23.80 ± 0.70 ** # 633
KA/biot/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. — Samaniego Ridge. Also referred to as quartz monzonite of Samaniego Ridge. Oracle quad., PN county (32° 31.50', 110° 48.00'). L-3, K%= 7.6, *Ar=67, #BR-16.

23.80 ± 0.80 # 634
KA/biot/andesite breccia Locomotive Fanglomerate Gray and Miller, 1984
Little Ajo Mtns. — Agglomeratic andesite flow breccia near Ajo mine. Steeply tilted volcanic unit interbedded with the top of the Locomotive Fanglomerate. Ajo quad., PM county (32° 21.08', 112° 55.00'). L-3, K%= 6.8, *Ar=55, #81AM176.

23.80 ± 0.80 # 635
KA/biot/andesite Ajo volcanics Gray and others, 1985
Growler Mtns. — Purple to brown, altered andesite flows that occur in scattered, rounded, small hills in the southeastern part of the Growler Mtns. No analytical data reported. Generalized lat-lon. Growler Peak quad., PM county (32° 19.62', 112° 52.22'). L-3, #G85:3.

23.85 ± 0.80 # 636
KA/w.r./basaltic andesite Cerro Colorado volcanics Shafiqullah and others, 1978
Cerro Colorado Mtns. — Youngest basaltic andesite. Saucito Mtn. quad., PM county (31° 42.82', 111° 14.90'). L-1, K%= 1.9, *Ar=46, #JKP-02-68.

23.86 ± 0.70 # 637
KA/w.r./basaltic andesite Blue Range volcanics Damon and others, 1968
Blue Range area -- Rose Peak. Youngest volcanic group in area and lies above the Moonstone tuff. Also discussed by Ratte and others (1969). Robinson Mesa quad., GN county (33° 27.07', 109° 22.63'). L-1, K%= 2.0, *Ar=64, #PED-32-67.

23.90 ± 0.09 # 638
KA/biot/ash-flow tuff Aguila Ridge volcanics Brooks, 1984
Aguila Ridge — Near the southeast end of Aguila Ridge. No analytical data reported. Date Creek Ranch SE quad., YA county (34°0.93', 113° 6.92'). L-2, #191-79.

23.91 ± 0.70 # 639
KA/w.r./basaltic andesite Dobbs Buttes volcanics Bikerman, 1967
Roskruge Mtns. -- Southern part. San Pedro quad., PM county (32° 4.05', 111° 24.38'). L-1, K%= 2.9, *Ar=60, #MB-06-64.

23.91 ± 0.70 # 640
KA/biot/rhyolite Blue Range volcanics Damon and others, 1968
Blue Range area -- Rousensock Creek. Biotite latite-rhyolite. Also discussed by Ratte and others (1969). Dutch Blue Creek quad., GN county (33° 23.58', 109° 12.75'). L-1, K%= 6.4, *Ar=50, #PED-36-67.

23.93 ± 0.60 # 641
KA/w.r./andesitic basalt Exxon State 32-1 volcanics Eberly and Stanley, 1978
Tucson Basin -- From 2420-2426 m in Exxon State (32)-1 well. Sample ES:24. Tucson SE quad., PM county (32° 4.08', 110° 49.51'). L-1, K%= 2.6, *Ar=80, #UAKA-72-66.

24.00 ± 2.20 # 642
FT/zirc/tuff Noeh Mesa tuff Wahl, 1980
Morenci area -- Tuff lies unconformably over the Virden dacite. York Valley quad., GN county (32° 56.00', 109° 3.00'). L-M, #TF2.

24.00 ± 1.00 # 643
KA/biot/latite Sullivan Buttes Latite Krieger and others, 1971
Chino Valley -- Sample PA5 of McKee and Anderson (1972). King Canyon quad., YA county (34° 45.38', 112° 15.47'). L-3, K%= 7.3, *Ar=84, #A-45.

24.00 ± 1.20 # 644
KA/horn/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Western Samaniego Ridge. Sphene-bearing, biotite-hornblende granite, also referred to as the quartz monzonite of Samaniego Ridge. Oracle quad., PM county (32° 31.50', 110° 50.00'). L-3, K%= 0.5, *Ar=20, #BR-21.

24.00 ± 0.50 # 645
KA/biot/quartz monzonite dike Tortolita Mtns. dike Banks and others, 1978b
Tortolita Mtns. -- Bass Canyon. Porphyritic quartz monzonite dike with chilled selvage. Dikes are unfoliated and crosscut foliated and lineated granitic rocks. Tortolita Mtns. quad., PN county (32° 31.90', 111° 3.40'). L-1, K%= 7.5, *Ar=87, #UAKA-75-87.

24.00 ± 0.60 ** # 646
KA/k-sp/granite Wilderness granite Keith and others, 1980
Santa Catalina Mtns. -- Forerange. Generalized lat-lon. Analytical data not published. Cooling age on Eocene granite. Agua Caliente Hill (?) quad., PM county (32° 20.30', 110° 41.40'). L-1, #UAKA-72-76.

24.08 ± 1.40 # 647
KA/w.r./basaltic andesite Dobbs Buttes volcanics Bikerman, 1967
Roskruge Mtns. -- Southern part. Three Points quad., PM county (32° 7.48', 111° 19.83'). L-1, K%= 2.6, *Ar=44, #MB-12-64.

24.10 ± 0.90 # 648
FT/sphe/tuff Superstition Tuff Stuckless and Sheridan, 1971
Superstition Mtns. -- Superstition Tuff, Siphon Draw member. Lowermost member of the formation. Goldfield quad., MA county (33° 28.75', 111° 26.25'). L-2, #AP232.

24.10 ± 0.70 # 649
KA/w.r./basaltic andesite Del Bac Hills volcanics Percious, 1968
Del Bac Hills -- Martinez Hill. Stratigraphically overlies Turkey Track porphyry. Tucson SW quad., PM county (32° 6.50', 110° 59.17'). L-1, K%= 2.0, *Ar=61, #JKP-10-67.

24.10 ± 0.70 ** # 650
KA/biot/mafic inclusion Catalina granite inclusion Creasey and others, 1977
Santa Catalina Mtns. -- Cargodera Canyon. Mafic inclusion in Catalina granite, which is also called quartz monzonite of Samaniego Ridge. Hornblende date on same sample is 36.8 m.y. Oro Valley quad., PM county (32° 27.50', 110° 53.00'). L-3, K%= 7.6, *Ar=78, #ML-60.

24.10 ± 0.90 ** # 651
KA/biot/quartz monzonite Wrong Mtn. Quartz Monzonite Marvin and others, 1973
Rincon Mtns. -- Represents cooling age on early Tertiary pluton, equivalent to Wilderness granite. Galleta Flat West quad., PM county (32° 7.00', 110° 28.00'). L-2, K%= 7.4, *Ar=79, #M73:80.

24.10 ± 0.70 # 652
KA/sani/rhyodacite tuff San Manuel Fm. Krieger, 1974b
Tortilla Mtns. -- Rhyodacite tuff bed in granitic alluvial deposits of the Ripsey Wash sequence, which is probably equivalent to the San Manuel Fm. Analytical data not reported. Crozier Peak quad., PN county (32° 58.75', 110° 56.75'). L-3, C-?.

24.10 ± 2.00 # 653
KA/biot/granite **Stronghold Granite** Marvin and others, 1973
Dragoon Mtns. -- Revised date from Marvin and others (1978), who indicate that original published date is in error. Pearce quad., CH county (31° 56.00', 109° 59.50'). L-2, K%= 6.6, *Ar=65, #M73:89.

24.20 ± 1.20 # 654
KA/biot/tuff **Kinter Fm.** Marvin and Dobson, 1979
Laguna Mtns. -- Tuff in the lower part of the upper member of the Kinter Fm. Sample from a 0.6- to 1.2-m-thick bed of pink, altered bentonitic ash. Laguna Dam quad., YU county (32° 45.97', 114° 26.17'). L-2, K%= 6.1, *Ar=51, #VAW-60-29.

24.20 ± 0.52 # 655
KA/w.r./basaltic andesite **A Mtn. basaltic andesite** Shafiqullah and others, 1978
Tucson Mtns. -- A Mtn. Tucson quad., PM county (32° 12.62', 110° 59.50'). L-1, K%= 2.6, *Ar=87, #UAKA-76-33.

24.26 ± 1.00 # 656
KA/w.r./basaltic andesite **Del Bac Hills volcanics** Percious, 1968
Del Bac Hills -- Uppermost in "A" series of flows. San Xavier Mission quad., PM county (32° 4.75', 111° 3.50'). L-1, K%= 2.5, *Ar=41, #JKP-50-66.

24.26 ± 0.52 # 657
KA/sani/rhyolite tuff **Guadalupe Canyon tuff** Deal and others, 1978
Peloncillo Mtns. -- Guadalupe Canyon quad., CH county (31° 29.00', 109° 4.08'). L-1, K%= 8.7, *Ar=98, #5.

24.30 ± 0.50 # 658
KA/w.r./dike **Happy Valley dike** Keith and others, 1980
Rincon Mtns. -- Happy Valley. Dike crosscuts foliated Wrong Mountain granite. Date considered to be probable emplacement age. Analytical data not reported. Happy Valley quad., PM county (32° 11.50', 110° 28.20'). L-1, #UAKA-74-83.

24.30 ± 0.80 # 659
KA/biot/latite **Fort Rock volcanics** Goff and others, 1983
Cottonwood Mtns. -- Tin Mtn. area. Hornblende latite dome overlies hornblende-bearing alkali-olivine basalt. Generalized lat-lon. Reported K is too low for pure biotite. Tin Mtn. quad., MO county (35° 12.00', 113° 31.00'). L-7, K%= 3.6, *Ar=38, #F78-72.

24.35 ± 0.73 # 660
KA/biot/granodiorite **Picacho Mtns. granite** Shafiqullah and others, 1980
Picacho Mtns. -- Northern part of range. Referred to as Northstar granodiorite stock by Shafiqullah and others, but date is on separate pluton to south that is associated with northerly trending dikes that intrude the Precambrian basement. Picacho Reservoir SE quad., PN county (32° 48.10', 111° 21.30'). L-1, K%= 6.1, *Ar=46, #UAKA-73-64.

24.40 ± 0.70 # 661
KA/biot/tuff **Galiuro Volcanics** Creasey and Krieger, 1978
Galiuro Mtns. -- Tuff of Bear Springs Canyon. Location from Johnson and Todd (1973). Oak Grove Canyon quad., PN county (32° 51.50', 110° 29.90'). L-3, K%= 7.0, *Ar=62, #CK:15.

24.40 ± 1.20 ** # 662
KA/w.r./andesite **Turkey Canyon volcanics** Goff and others, 1983
East Juniper Mtns. -- Andesite flow and cone (Juniper Cone). Date possibly somewhat too old. Unit appears to be relatively uneroded and thought to be younger than F78-88 (22.4 m.y.). Multiple dates on same sample are erratic. Turkey Canyon NE quad., YA county (35° 8.00', 112° 52.00'). L-7, K%= 4.1, *Ar=60, #BA78-72.

24.50 ± 3.00 # 663
SR/w.r./granodiorite **South Mtns. Granodiorite** Reynolds, 1985
South Mtns. -- Isochron constructed from four granodiorite samples, and three aplite samples from within the granodiorite. Pluton dated at 22+/-4 m.y. by U-Pb on zircon. Recalculated age from Reynolds and others (1986). Sri=0.7056+/-0.0001, 7 pts. Lone Butte quad., MA county (33° 20.27', 112° 3.23'). L-1, #SMG-1 TO 7.

24.50 ± 3.00 # 664
KA/biot/quartz diorite **Tortolita Quartz Monzonite** Damon and others, 1963a
Santa Catalina Mtns. -- Fine-grained dikes, also called Cargodera quartz diorite (?). Sample is also described as a fine-grained granite. Analytical data not reported. Mt. Lemmon quad., PM county (32° 26.50', 110° 52.20'). L-1, #PED-17-59.

24.50 ± 0.60 # 665
KA/biot/rhyolite **West Ranch rhyolite** Houser and others, 1985
Gila Mtns. -- Southern part, near West Ranch. Generally welded rhyolite breccias. No analytical data reported. Safford quad., GM county (32° 58.03', 109° 37.14'). L-1, #H85:D.

24.60 ± 4.00 ** # 666
FT/zirc/granite **Wrong Mtn. Quartz Monzonite** Marvin and Cole, 1978
Rincon Mtns. — Weakly foliated. Equivalent to early Tertiary Wilderness Granite. Galleta Flat West quad., PM county (32° 7.00', 110° 28.00'). L-2, #71D17.

24.60 ± 1.60 # 667
KA/biot/rhyolitic tuff **Plomosa volcanics** Eberly and Stanley, 1978
Plomosa Mtns. -- Northern part of range. Part of SSW-dipping sequence above Plomosa detachment fault. Bouse quad., LP county (33° 49.87', 114° 5.63'). L-B, K%= 6.5, *Ar=41, #ES:91.

24.60 ± 0.70 # 668
KA/biot/granite **Catalina granite** Creasey and others, 1977
Santa Catalina Mtns. — Cargodera Canyon. Granite is also referred to as the quartz monzonite of Samaniego Ridge. Mt. Lemmon quad., PM county (32° 27.50', 110° 52.00'). L-3, K%= 7.2, *Ar=79, #ML-61.

24.65 ± 0.60 # 669
KA/biot/rhyodacite dike **Eagle Pass dike** Shafiqullah and others, 1980
Pinaleno Mtns. — Vertical, northeast-trending rhyodacite dike in the lower plate of the Eagle Pass detachment, northern Pinaleno Mountains. Buford Hills quad., GM county (32° 45.60', 110° 8.10'). L-1, K%= 7.5, *Ar=82, #UAKA-74-129.

24.70 ± 0.70 ** # 670
KA/musc/granite **Wilderness granite** Creasey and others, 1977
Santa Catalina Mtns. -- Windy Point. Mylonitic, gneissic two-mica Wilderness granite of early Tertiary age. Agua Caliente Hill quad., PM county (32° 22.00', 110° 43.00'). L-3, K%= 8.1, *Ar=75, #GGN-S1.

24.70 ± 4.40 ** # 671
KA/w.r./phyllite **Buckskin Mtns. phyllite** Davis and others, 1982
Buckskin Mtns. -- Western part of range. Upper-plate of Whipple-Buckskin detachment fault. Location from Barry (1979), as cited in Calzia and Morton (1980). Cross Roads quad., LP county (34° 9.00', 114° 7.50'). L-7, K%= 3.5, *Ar=9, #1877.

24.70 ± 0.70 # 672
KA/sani/rhyolite **Rhyolite Canyon Fm.** Marjaniemi, 1968
Chiricahua Mtns. -- Cochise Head quad., CH county (32°0.40', 109° 18.70'). L-1, K%= 5.9, *Ar=98, #PED-12-62B.

24.70 ± 0.40 # 673
KA/plag/rhyodacite **McLendon Peak rhyodacite** Brooks, 1984
Date Creek Basin area -- Violas Peak area. Rhyodacite flows of McLendon Peak. No analytical data reported. Malpais Mesa SW quad., YA county (34° 19.20', 113° 12.67'). L-2, #167-78.

24.72 ± 3.50 # 674
KA/w.r./basalt **Trout Creek volcanics** Young and McKee, 1978
Aquarius Mtns. — North of Trout Creek. Meath Spring quad., MO county (35° 1.23', 113° 28.62'). L-3, K%= 0.4, *Ar=11.

24.85 ± 0.97 # 675
KA/w.r./basalt **Pantano Fm. (?)** Shafiqullah and others, 1978
Babocomari River area -- Basalt intercalated in a reddish, arkosic sandstone. Mustang Mtns. quad., PM county (31° 37.98', 110° 27.17'). L-1, K%= 1.5, *Ar=33, #PED-09-70.

24.90 ± 0.40 # 676
KA/phlo/minette **Buell Park diatreme** Roden and others, 1979
Defiance Plateau — Buell Park. Minette host rock, SE end of mafic ring dike. Generalized lat-lon. Buell Park quad., AP county (35° 53.40', 109° 5.90'). L-H, K%= 6.4, *Ar=67, #N255.

24.90 ± 1.00 ** # 677
KA/w.r./quartz diorite inclusion **Catalina granite inclusion** Keith and others, 1980
Santa Catalina Mtns. — Mafic inclusion in Catalina granite. Written communication from Soderman, 1979. Inclusion interpreted to be Leatherwood quartz diorite. Generalized lat-lon. Analytical data not published. Mt. Lemmon (?) quad., PN county (32° 25.00', 110° 52.00'). #K80:24.

24.90 ± 0.00 # 678
KA/biot/rhyodacite **Powerline Pass rhyodacite** Richter and others, 1981
Whitlock Mtns. — Near Powerline Pass. No analytical data reported. Dry Mtn. quad., GM county (32° 37.42', 109° 24.14'). L-1, #R81:D.

24.90 ± 1.50 # 679
KA/phlo/tuff Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. — Southeastern part of range. Picacho quad., LP county (33° 2.05', 114° 30.30'). L-7, K%= 6.6, *Ar=32, #2180.

24.90 ± 0.90 # 680
KA/ / Trout Creek volcanics Young, 1979
Music Mtns. -- Material analyzed and analytical data not reported. Generalized lat-lon. Meath Spring quad., MO county (35° 1.24', 113° 28.62'). L-3, #Y79:2.

24.93 ± 2.60 # 681
KA/plag/andesite porphyry Pantano Fm. Shafiqullah and others, 1978
Cienega Gap area — Turkey Track porphyry intercalated in Pantano Fm. Vail quad., CH county (32° 1.20', 110° 38.70'). L-1, K%= 0.9, *Ar=29, #PED-40-63.

24.95 ± 0.69 # 682
KA/biot/granite Goodwin Canyon Granite Shafiqullah and others, 1980
Santa Teresa Mtns. — Fisher Prospect. Coarse-grained, sodic granite that intrudes Precambrian gneisses. Cobre Grande Mtn. quad., GM county (32° 57.00', 110° 15.00'). L-1, K%= 7.8, *Ar=55, #UAKA-73-16.

25.00 ± 0.50 # 683
FT/zirc/tuff Superstition Tuff Stuckless and Sheridan, 1971
Superstition Mtns. -- Superstition Tuff, Siphon Draw Member. Lowermost member of the formation, a series of quartz latite ash-flow tuffs. Goldfield quad., MA county (33° 28.75', 111° 26.25'). L-2, #AP232.

25.00 ± 5.00 ** # 684
FT/zirc/granite Wrong Mtn. Quartz Monzonite Marvin and Cole, 1978
Rincon Mtns. -- Foliated. Equivalent to early Tertiary Wilderness Granite. Uranium content in zircon too high for accurate age determination. Rincon Valley quad., PM county (32° 9.00', 110° 32.00'). L-2, #73D52.

25.00 ± 1.30 # 685
FT/zirc/rhyolite dike Wood Canyon rhyolite dike Drewes, 1985
Dos Cabezas Mtns. -- Aphanitic to sparsely porphyritic, northeast-trending dikes cutting Proterozoic granite. No analytical data reported. Dos Cabezas quad., CH county (32° 9.22', 109° 31.63'). L-2.

25.00 ± 1.00 # 686
KA/biot/andesite dike Sierrita dike Marvin and others, 1973
Sierrita Mtns. — Pima mining district. Originally reported, in part, by Creasey and Kistler (1962). Twin Buttes quad., PM county (31° 56.75', 111° 4.25'). L-9, K%= 3.9, *Ar=71, #M73:01.

25.00 ± 0.80 ** # 687
KA/biot/granite Wrong Mtn. Quartz Monzonite Marvin and Cole, 1978
Rincon Mtns. -- Foliated equivalent of early Tertiary Wilderness granite. Rincon Valley quad., PM county (32° 9.00', 110° 32.00'). L-2, K%= 5.4, *Ar=71, #73D52.

25.00 ± 1.00 # 688
KA/biot/dacite welded tuff Castle Dome volcanics Gutmann, 1981
Castle Dome Mtns. — Honkidori Hill. Base of volcanic sequence. From a compound cooling unit of welded tuff at least 100 m thick and separated from Mesozoic rocks by 10 m of sandstone. Red Bluff Mtn. quad., YU county (32° 58.78', 114° 9.08'). L-5, K%= 6.2, *Ar=54, #CD-85.

25.10 ± 2.50 # 689
FT/zirc/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Samaniego Ridge. Also referred to as quartz monzonite of Samaniego Ridge. Middle Tertiary pluton. Biotite from this sample yields a 23.8 m.y. K-Ar age. Oracle quad., PN county (32° 31.50', 110° 48.00'). L-2, #BR-16.

25.10 ± 0.90 # 690
KA/biot/dacite Safford Peak dacite neck Bikerman and Damon, 1966
Tucson Mtns. — Dacite neck that intrudes all of the Safford Peak volcanics and has vertical flow structure. Rock is porphyritic with aligned phenocrysts of feldspar and biotite. Also reported by Damon and Bikerman (1964). Avra quad., PM county (32° 20.73', 111° 8.92'). L-1, K%= 7.1, *Ar=67, #PED-01-64.

25.10 ± 0.50 ** # 691
KA/biot/granodiorite Chirreon Wash Granodiorite Banks and others, 1978b
Tortolita Mtns. — Porphyritic, slightly foliated, sphene-bearing facies of Late Cretaceous Chirreon Wash pluton. Tortolita Mtns. quad., PN county (32° 32.87', 111° 1.92'). L-1, K%= 7.2, *Ar=81, #UAKA-75-86.

25.10 ± 0.50 # 692
KA/sani/ash-flow tuff **Moonstone ash-flow tuff** Damon and others, 1968
Blue Range area — From upper volcanic series. Also listed by Ratte and others (1969). Age recalculated by Damon and Shafiqullah (1981). Blue quad., AP county (33° 36.57', 109° 5.50'). L-1, K%= 5.7, *Ar=99, #PED-31-67.

25.10 ± 0.55 # 693
KA/w.r./rhyolite Mineta Fm. Scarborough and Wilt, 1979
Rincon Mtns. -- Mineta Ridge. Rhyolite is 15-31 m thick and is in fault contact with Pinal schist to the west and probably has a depositional contact with overlying gray conglomerate of the Mineta Formation to the east. Soza Canyon quad., PM county (32° 17.10', 110° 27.28'). L-1, K%= 3.7, *Ar=59, #UAKA-78-33.

25.10 ± 0.40 # 694
KA/horn/quartz latite Huerfano quartz latite Banks and others, 1978b
Durham-Suizo area -- Porphyritic flow in sequence of brownish-pink to rose-gray flows and local flow breccia. Tortolita Mtns. quad., PN county (32° 38.87', 111° 11.15'). L-3, K%= 0.8, *Ar=50, #TMN-62.

25.10 ± 2.50 # 695
KA/plag/andesite Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. -- South-central portion of range. Steeply tilted volcanic flows. Hidden Valley quad., LP county (33° 7.80', 114° 36.62'). L-7, K%= 1.2, *Ar=20, #2177.

25.11 ± 1.18 # 696
KA/sani/rhyolite Cave Creek fm. Shafiqullah and others, 1978
Chiricahua Mtns. — Horseshoe Canyon. Upper part of Eagle Cliffs member (lower rhyolites) of Cave Creek Fm. Originally reported by Marjaniemi (1969), with slightly different percent K. Portal quad., CH county (31° 46.03', 109° 10.38'). L-1, K%= 7.5, *Ar=91, #DM-01-68.

25.20 ± 1.40 # 697
KA/biot/tuff Safford Peak tuff Bikerman and Damon, 1966
Tucson Mtns. — Northern end, near Safford Peak. Tuff overlies Rillito andesite and consists of a coarse, poorly sorted conglomeratic unit that grades upward into a light-colored, stratified tuff. Also reported by Damon and Bikerman (1964). Avra quad., PM county (32° 19.72', 111° 8.35'). L-1, K%= 7.0, *Ar=48, #PED-10-63.

25.20 ± 1.00 ** # 698
KA/biot/granite Arizona State A-1 granite Reif and Robinson, 1981
Florence area -- Arizona State A-1 well, southeast of Florence. Fine- to medium-grained, muscovite-bearing granite at 3677-3722 m. Interpreted as reduced age on Lower Tertiary granite. Picacho Reservoir SE quad., PN county (32° 51.00', 111° 17.50'). C-?, K%= 5.6, #RR:3.

25.22 ± 0.70 # 699
KA/sani/basaltic andesite Del Bac Hills volcanics Percious, 1968
Del Bac Hills — Plagioclase-sanidine basaltic porphyritic andesite flow. Uppermost flow of "B" series. Tucson SW quad., PM county (32° 6.38', 110° 59.25'). L-1, K%= 2.0, *Ar=61, #JKP-68-66.

25.30 ± 0.40 # 700
FT/zirc/tuff Superstition Tuff Stuckless and Sheridan, 1971
Superstition Mtns. — Superstition Tuff, Siphon Draw member. Sample from top of member. Goldfield quad., PN county (33° 27.50', 111° 22.50'). L-2, #AP236.

25.30 ± 2.90 ** # 701
FT/apat/granite Wrong Mtn. Quartz Monzonite Marvin and Cole, 1978
Rincon Mtns. — Foliated. Equivalent to early Tertiary Wilderness Granite. Rincon Valley quad., PM county (32° 9.00', 110° 32.00'). L-2, #73D52.

25.30 ± 4.00 ** # 702
KA/plag/olivine basalt Bill Williams basalt Calzia and Morton, 1980
Buckskin Mtns. — Western part, 2.5 km east of Parker Dam. Mesa-capping basalt. Anomalously old age. Date attributed to Barry (1979). Monkeys Head quad., LP county (34° 17.00', 114° 6.00'). L-7, #1878.

25.30 ± 0.70 # 703
KA/biot/tuff Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. — Hell's Half Acre tuff member. Location from Johnson and Todd (1973). Brandenburg Mtn. quad., PN county (32° 55.00', 110° 32.50'). L-3, K%= 7.3, *Ar=63, #CK:16.

25.30 ± 0.60 # 704
KA/biot/rhyolite Pothole Canyon rhyolite Bryan, 1986
Chiricahua Mtns. -- Rhyolite dike that cuts a north trending fault, halfway up a hill between the entrances of North Fork and Pothole Canyon into Horseshoe Canyon. Portal quad., CH county (31° 46.50', 109° 10.43'). L-1, K%= 7.3, *Ar=75, #UAKA-84-89.

25.33 ± 0.54 ** # 705
KA/biot/gneissic granite **Harcuvar gneissic granite** Shafiqullah and others, 1980
Harcuvar Mtns. — 5 km north-northeast of Cunningham Pass. Date represents a cooling age. Salome quad., LP county (33° 59.00', 113° 34.00'). L-1, K%= 7.6, *Ar=84, #UAKA-75-107.

25.40 ± 1.00 ** # 706
KA/biot/gneissic granite **Wilderness granite** Livingston and others, 1967
Santa Catalina Mtns. — Windy Point. Mylonitic two-mica granite. Agua Caliente Hill quad., PM county (32° 22.10', 110° 43.00'). L-1, K%= 7.1, *Ar=48, #PED-04A-58.

25.40 ± 0.70 # 707
KA/sani/rhyolite tuff **Rhyolite Canyon Fm.** Marjaniemi, 1968
Chiricahua Mtns. — Welded tuff. Ash flow unit 8 of Enlows (1955). Cochise Head quad., CH county (32° 1.90', 109° 19.45'). L-1, K%= 6.3, *Ar=99, #DM-03-67.

25.40 ± 0.90 ** # 708
KA/musc/quartz monzonite **Wrong Mtn. Quartz Monzonite** Marvin and others, 1973
Rincon Mtns. — Date is cooling age on early Tertiary pluton, equivalent to Wilderness granite. Galleta Flat West quad., PM county (32° 7.00', 110° 28.00'). L-2, K%= 8.2, *Ar=79, #M73:80.

25.40 ± 0.50 # 709
KA/w.r./andesite dike **Kofa dike** Hankins, 1984
Kofa Mtns. — Kofa mine area. Andesite porphyry dike. Kofa Butte quad., YU county (33° 16.75', 113° 57.97'). L-7, K%= 2.4, *Ar=47, #KA2533.

25.40 ± 0.50 ** # 710
KA/biot/pegmatite **Wrong Mtn. pegmatite (?)** Keith and others, 1980
Rincon Mtns. -- Eastern part. Pegmatite intruding metamorphosed and deformed Horquilla Limestone, and associated with early Tertiary Wrong Mountain Quartz Monzonite. Date represents cooling age of older rock. Analytical data not published. Happy Valley quad., PM county (32° 11.50', 110° 28.20'). L-1, #UAKA-74-80.

25.40 ± 0.73 # 711
KA/biot/rhyolite dike **Turkey Creek rhyolite dike** Shafiqullah and others, 1978
Chiricahua Mtns. — Porphyritic rhyolite dike intrusive into monzonitic resurgent dome of Turkey Creek caldera. Originally reported by Marjaniemi (1969). Fife Peak quad., CH county (31° 52.87', 109° 24.25'). L-1, K%= 7.5, *Ar=69, #DM-03-68.

25.42 ± 0.70 # 712
KA/w.r./basaltic andesite **Del Bac Hills volcanics** Percious, 1968
Del Bac Hills — Speckled, light-colored basaltic andesite. Low in "A" series. San Xavier Mission quad., PM county (32° 4.50', 111° 2.50'). L-1, K%= 2.0, *Ar=67, #JKP-49-66.

25.50 ± 0.00 # 713
SR/w.r./granite **Catalina granite** Keith and others, 1980
Santa Catalina-Tortolita Mtns. — Reference isochron. Assumes Catalina and Tortolita plutons are comagmatic. Large degree of concordance implies emplacement age of between 28 and 25 Ma. Generalized lat-lon. Sri=0.7088+/-0.0000, 13 pts. Mt. Lemmon quad., PM county (32° 29.00', 110° 50.00'). L-1, #SEVERAL.

25.50 ± 1.40 # 714
FT/zirc/rhyolite dike **Chiricahua volcanics** Drewes, 1982
Chiricahua Mtns. — Date is concordant with a biotite K-Ar age from the same sample. No analytical data reported. Cochise Head quad., CH county (32° 5.82', 109° 19.87'). L-2.

25.50 ± 0.60 # 715
KA/w.r./basalt dike **Christmas basalt dike** McKee and Koski, 1981
Dripping Spring Mtns. — Christmas area. Cuts mineralized portion of Christmas stock. Hayden quad., GI county (33° 3.50', 110° 45.00'). L-3, K%= 1.5, *Ar=77, #AB49-73.

25.50 ± 0.60 # 716
KA/biot/vogesite **Dineh bi Keyah sill** Marvin and Dobson, 1979
Lukachukai Mtns. — Dineh bi Keyah Oil Field. Biotitic vogesite or diopsidic minette sill from 967 m Kerr-McGee No. 2. Much older sanidine ages possibly due to excess radiogenic argon, which may account for spurious whole-rock date of Pohlman (1967). Lukachukai quad., AP county (36° 28.50', 109° 9.33'). L-2, K%= 7.6, *Ar=84, #67-JDS-01.

25.60 ± 2.30 # 717
FT/apat/tuff **Superstition Tuff** Stuckless and Sheridan, 1971
Superstition Mtns. — Superstition tuff, Siphon Draw member. Lowermost member of the formation. Goldfield quad., MA county (33° 28.75', 111° 26.25'). L-2, #AP232.

25.60 ± 0.80 # 718
KA/biot/granite **Catalina granite** Damon and others, 1963a
Santa Catalina Mtns. — Western flank, in Cargodera Canyon. Analytical data not reported. Mt. Lemmon quad., PM county (32° 26.50', 110° 52.20'). L-1, K%= 7.7, *Ar=56, #PED-16-59.

25.60 ± 0.80 # 719
KA/sani/rhyolite tuff **Rhyolite Canyon Fm.** Marjaniemi, 1968
Chiricahua Mtns. — Ash-flow member. Upper tuff is soft and light-gray at top, but grades downward into brittle, grayish-red rock. Rustler Peak quad., CH county (31° 59.33', 109° 21.03'). L-1, K%= 6.8, *Ar=86, #DM-02-67.

25.60 ± 1.00 ** # 720
KA/biot/gneiss **Forerange gneiss** Livingston and others, 1967
Santa Catalina Mtns. — Light-colored band in gneiss, possibly related to early Tertiary Wilderness granite. Additional dates on other minerals are 1 to 4 m.y. older. Agua Caliente Hill quad., PM county (32° 20.30', 110° 41.40'). L-1, K%= 5.7, *Ar=66, #PED-18-62L.

25.60 ± 0.60 ** # 721
KA/plag/air-fall tuff **San Manuel Fm.** Scarborough and Wilt, 1979
Tortilla Mtns. — Jim Thomas Wash. 2 m-thick, silicic air-fall tuff in San Manuel Fm. Date may be too old: additional dates from same sample are 20.11 m.y. on biotite and 23.4 m.y. on hornblende. Crozier Peak quad., PN county (32° 58.75', 110° 56.71'). L-1, K%= 0.8, *Ar=76, #UAKA-76-133.

25.60 ± 1.10 ** # 722
KA/biot/granodiorite gneiss **Arizona State A-1 gneiss** Reif and Robinson, 1981
Florence area — Phillips Arizona State A-1 well, southeast of Florence. Biotite-hornblende mix from granodiorite gneiss at 5335-5338 m. Date represents cooling age on older, probably Precambrian protolith. Picacho Reservoir SE quad., PN county (32° 51.00', 111° 17.50'). C-?, K%= 3.3, #RR:6.

25.60 ± 0.00 # 723
KA/w.r./basaltic andesite **Javelina andesite** Richter and others, 1981
Whitlock Mtns. -- South of Javelina Peak. No analytical data reported. Whitlock Cienega quad., GM county (32° 33.33', 109° 21.98'). L-1, #R81:E.

25.60 ± 0.60 # 724
KA/plag/rhyolite **West Ranch rhyolite** Houser and others, 1985
Gila Mtns. — Southern part, near West Ranch. Generally welded rhyolite breccias. No analytical data reported. Safford quad., GM county (32° 58.03', 109° 37.14'). L-1, #H85:D.

25.64 ± 1.00 # 725
KA/biot/rhyolite **Ragged Top rhyolite** Damon and Bikerman, 1964
Silver Bell Mtns. — Northern part, near Ragged Top fault. Intrusive volcanic neck. Also reported by Mauger and others (1965). Silver Bell Peak quad., PM county (32° 26.60', 111° 29.50'). L-1, K%= 6.5, *Ar=61, #RM-04-63.

25.65 ± 0.54 # 726
KA/w.r./dacite tuff **Dobbs Buttes volcanics** Shafiqullah and others, 1978
Roskruge Mtns. — Viopuli region. From uppermost volcanics exposed at Dobbs Buttes. San Pedro quad., PM county (32° 3.05', 111° 26.08'). L-1, K%= 2.6, *Ar=93, #UAKA-77-62.

25.70 ± 1.90 # 727
FT/zirc/tuff **Noeh Mesa tuff** Wahl, 1980
Morenci area — Tuff lies unconformably above the Virden dacite. Sample contains abundant sphene. Big Lue Mts. quad., GN county (33° 3.00', 109° 14.00'). L-M, #TF1.

25.70 ± 1.70 # 728
KA/w.r./rhyolitic tuff **Trigo Mtns. volcanics** Eberly and Stanley, 1978
Trigo Mtns. — Western part. Welded rhyolitic tuff. Cibola quad., LP county (33° 15.08', 114° 37.63'). L-B, K%= 5.5, *Ar=58, #ES:120.

25.70 ± 2.70 # 729
KA/w.r./basalt **Ajo volcanics** Eberly and Stanley, 1978
Little Ajo Mtns. — Volcanics overlie Locomotive Fanglomerate. Ajo quad., PM county (32° 19.62', 112° 52.22'). L-B, K%= 2.9, *Ar=20, #ES:108.

25.70 ± 1.40 ** # 730
KA/biot/foliated granite **Oracle Granite (?)** Eberly and Stanley, 1978
Picacho Basin — Exxon State 74-1, bottom-hole core. Slightly foliated porphyritic granite. Reported by Eberly and Stanley as quartz diorite gneiss. Date represents cooling age on Precambrian granite. Generalized lat-lon. Eloy North quad., PN county (32° 45.00', 111° 30.00'). L-B, K%= 3.4, *Ar=52, #ES:05.

25.70 ± 0.00 # 731
KA/plag/rhyodacite **Pre-Chapin Wash Fm. rhyodacite** Otton, 1981
Date Creek Basin area -- Anderson Mine vicinity. Rhyodacite beneath the Chapin Wash Fm. Analytical data not published. Date attributed to N. Suneson (1978, written comm.). Lat-lon listed here is for general vicinity of Anderson Mine. Malpais Mesa (?) quad., YA county (34° 17.00', 113° 15.00'). L-2, C-?.

25.70 ± 0.60 # 732
KA/biot/vogesite **Dineh bi Keyah sill** Marvin and Dobson, 1979
Lukachukai Mtns. -- Dineh bi Keyah Oil Field. Biotitic vogesite or diopsidic minette sill from 967 m, Kerr-McGee No. 1. Sanidine dates are much older, probably due to excess argon. Lukachukai quad., AP county (36° 28.50', 109° 9.33'). L-2, K%= 7.6, *Ar=77, #67-JDS-01B.

25.70 ± 0.50 # 733
KA/ /volcanic rock **Whitlock Mtns. volcanics** Strangway and others, 1976
Whitlock Mtns. -- Generalized lat-lon. Analytical data, material dated, and rock type not reported. Dry Mtn. (?) quad., GM county (32° 39.00', 109° 25.00'). L-C, C-?, #SL-3A.

25.70 ± 0.90 # 734
KA/biot/rhyolite **Rough Mtn. dike** Drewes, 1982
Chiricahua Mtns. -- Northern part, east side of Rough Mtn. No analytical data reported. Rhyolite dike. Cochise Head quad., CH county (32° 5.82', 109° 19.87'). L-2, #DH82:4.

25.70 ± 0.00 # 735
KA/horn/diorite sill **Harcuvar diorite sill** Rehrig, 1982
Harcuvar Mtns. -- Near Bullard Peak. Undeformed diorite sill intruding mylonite indicating that the mylonites formed before 25.7 m.y. Analytical data and exact location not published. Smith Peak quad., YA county (34° 4.50', 113° 17.50'). L-5, #R82:1.

25.83 ± 5.10 # 736
KA/biot/ash-flow tuff **Patagonia tuff** Damon and Bikerman, 1964
Patagonia Mtns. -- Near Patagonia Water Gap. Cumero Canyon quad., SC county (31° 28.80', 110° 48.00'). L-1, K%= 4.9, *Ar=20, #PED-10-62.

25.90 ± 1.00 # 737
KA/plag/quartz latite **Vaca Hills volcanics** Banks and others, 1978a
Silver Bell Mtns. -- Northwest of Silver Bell Mine. Greene Reservoir quad., PN county (32° 33.00', 111° 40.30'). L-3, K%= 0.7, *Ar=44, #E-2N.

25.90 ± 0.40 # 738
KA/phlo/minette **Buell Park diatreme** Roden and others, 1979
Defiance Plateau -- Buell Park, west side of Buell Mtn. Bomb in tuff breccia in minette host rock. Generalized lat-lon. Buell Park quad., AP county (35°0.00', 109°0.00'). L-H, K%= 7.8, *Ar=73, #BP37.

25.90 ± 6.00 # 739
KA/w.r./basaltic andesite **A Mtn. basaltic andesite** Bikerman and Damon, 1966
Tucson Mtns. -- A Mtn. Flow contains mafic phenocrysts in a matrix of more potassium-rich aphanitic material. Unit overlies Turkey Track porphyry unit of Tumamoc Hill and underlies tuff unit. Tucson quad., PM county (32° 12.50', 110° 59.32'). L-1, K%= 2.0, *Ar=57, #PED-15-63.

25.90 ± 0.00 # 740
KA/w.r./basaltic andesite **Javelina andesite** Richter and others, 1981
Whitlock Mtns. -- On top of Javelina Peak. No analytical data reported. Javelina Peak quad., GM county (32° 34.48', 109° 23.69'). L-1, #R81:F.

25.90 ± 0.60 # 741
KA/horn/dacite **Bryce Mtn. volcanics** Houser and others, 1985
Gila Mtns. -- Southern part, near Bryce Mtn. No analytical data reported. Safford quad., GM county (32° 59.21', 109° 38.55'). L-1, #H85:C.

26.00 ± 0.54 # 742
KA/phlo/ash-flow tuff **San Tan Mtns. ash-flow tuff** Balla, 1972
San Tan Mtns. -- Dacite. Probably correlative with Superstition volcanics. Average of two dates from the same sample. Sacaton quad., PN county (33° 6.63', 111° 40.22'). L-6, K%= 6.3, *Ar=53, #KA-71-74.

26.00 ± 0.60 # 743
KA/biot/rhyolite tuff **Vulture volcanics** Rehrig and others, 1980
Vulture Mtns. -- Rhyolite tuff from 15 m above contact with a reddish conglomerate that separates this unit from underlying Precambrian gneiss. Vulture Mtns. quad., MA county (33° 53.80', 112° 48.70'). L-1, K%= 6.6, *Ar=89, #UAKA-75-54.

26.10 ± 3.50 ** # 744
FT/apat/granodiorite **Continental Granodiorite** Marvin and Cole, 1978
Rincon Mtns. -- Tanque Verde area. Age suggests strong thermal event or uplift in late Oligocene-early Miocene. Bio and musc from this sample yield K-Ar ages of 1340 and 1415 respectively; this sample also yields a Rb-Sr whole-rock isochron of 1410 m.y. Tanque Verde Peak quad., PM county (32° 12.50', 110° 42.50'). L-2, #74D62.

26.10 ± 0.40 # 745
KA/phlo/minette **Buell Park diatreme** Roden and others, 1979
Defiance Plateau — Buell Park area, south end of Buell Mtn. Felsic intrusion. Generalized lat-lon. Buell Park quad., AP county (35° 53.40', 109° 5.90'). L-H, K%= 7.6, *Ar=71, #BP34.

26.10 ± 1.00 ** # 746
KA/musc/gneiss **Forerange gneiss** Livingston and others, 1967
Santa Catalina Mtns. — Forerange. Light-colored band in gneiss, possibly equivalent to early Tertiary Wilderness granite. See other dates. Dates represent cooling ages on older protolith. Agua Caliente Hill quad., PM county (32° 20.30', 110° 41.40'). L-1, K%= 7.4, *Ar=38, #PED-18-62L.

26.20 ± 0.60 # 747
FT/sphe/tuff **Superstition Tuff** Stuckless and Sheridan, 1971
Superstition Mtns. -- Superstition Tuff, Siphon Draw member. Sample from top of member. Goldfield quad., PN county (33° 27.50', 111° 22.50'). L-2, #AP236.

26.20 ± 0.40 # 748
KA/ /volcanic rock **Peloncillo volcanics** Strangway and others, 1976
Peloncillo Mtns. — Northern part, near Poppy Canyon. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Guthrie (?) quad., GM county (32° 50.00', 109° 20.00'). L-C, C-?, #PC-1B.

26.30 ± 0.80 # 749
KA/sani/rhyolite tuff **Galiuro Volcanics** Creasey and Krieger, 1978
Galiuro Mtns. -- Holy Joe Member. Location from Johnson and Todd (1973). Holy Joe Peak quad., PN county (32° 51.57', 110° 32.10'). L-3, K%= 7.2, *Ar=97, #CK:07.

26.30 ± 0.60 # 750
KA/biot/andesite dike **Pima Mine dike** Shafiqullah and Langlois, 1978
Sierrita Mtns. — Pima Mine drill hole. Dike has been cut by a meter-thick gouge zone correlated with the San Xavier fault. The dike is weakly propylitized, but does not contain primary mineralization. Twin Buttes quad., PM county (31° 59.25', 111° 3.00'). L-1, K%= 6.9, *Ar=92, #UAKA-74-89.

26.40 ± 0.90 # 751
KA/sani/ash-flow tuff **A Mtn. gray tuff** Bikerman and Damon, 1966
Tucson Mtns. -- A Mtn. Dacitic tuff overlies thin ash-fall tuff unit and underlies upper basaltic andesite. Also reported by Damon and Bikerman (1964). Tucson quad., PM county (32° 12.53', 110° 59.36'). L-1, K%= 5.3, *Ar=74, #PED-07B-63.

26.40 ± 1.00 # 752
KA/biot/rhyolite tuff **Galiuro Volcanics** Creasey and Krieger, 1978
Galiuro Mtns. -- Aravaipa Tuff member. Location from Johnson and Todd (1973). Holy Joe Peak quad., PN county (32° 51.12', 110° 31.60'). L-3, K%= 7.1, *Ar=77, #CK:04.

26.42 ± 0.65 # 753
KA/biot/rhyolite **Cave Creek fm.** Shafiqullah and others, 1978
Chiricahua Mtns. -- Near Cave Creek. Eagle Cliffs member (basal rhyolites) of formation. Average of three analyses, two of which were reported by Marjaniemi (1969). Portal quad., CH county (31° 53.18', 109° 11.02'). L-1, K%= 7.2, *Ar=63, #DM-06-67.

26.48 ± 0.56 # 754
KA/w.r./K-rich volcanic **Lake Pleasant volcanics** Scarborough and Wilt, 1979
Lake Pleasant area — Near Tule Mesa. Flow that forms base of an older volcanic series that overlies Precambrian schist and is unconformably overlain by the basalt-tuff-conglomerate series that composes the mesas of the area. New River quad., YA county (33° 58.08', 112° 14.53'). L-1, K%= 6.4, *Ar=84, #UAKA-78-39.

26.50 ± 2.00 # 755
PB/zirc/granite **Catalina granite** Shakel and others, 1977
Santa Catalina Mtns. — Undeformed pluton west of Samaniego Ridge. Originally described as quartz monzonite. No analytical data reported. Mt. Lemmon quad., PM county (32° 30.00', 111°0.00'). L-8, C-2.

26.50 ± 0.40 # 756
KA/phlo/minette **Black Rock diatreme** Roden and others, 1979
Defiance Plateau -- Black Rock, south of Buell Park. Generalized lat-lon. Buell Park quad., AP county (35° 50.00', 109° 5.00'). L-H, K%= 7.3, *Ar=75, #BR4.

26.50 ± 1.10 ** # 757
KA/musc/gneissic granite **Wilderness granite (?)** Mauger and others, 1968
Santa Catalina Mtns. — Forerange, Sabino Canyon. Also reported by Damon and others (1963a), but without specific location data or uncertainty. Sabino Canyon quad., PM county (32° 19.40', 110° 48.60'). L-1, K%= 8.0, *Ar=46, #PED-04-58.

26.50 ± 1.30 # 758
KA/sani/rhyolite dike **Box Canyon dike** Marvin and others, 1973
Santa Rita Mtns. — Rhyolite vitrophyre in dike swarm. Sample 65D899. Helvetia quad., PM county (31° 45.50', 110° 48.08'). L-2, K%= 5.1, *Ar=60, #M73:15.

26.60 ± 0.40 # 759
KA/phlo/minette **Fluted Rock diatreme** Roden and others, 1979
Defiance Plateau — Buell Park area, western end of Fluted Rock. Generalized lat-lon. Buell Park quad., AP county (35° 54.20', 109° 14.85'). L-H, K%= 6.5, *Ar=74, #FR3.

26.60 ± 1.20 # 760
KA/biot/vitrophyre **Contzen Pass vitrophyre** Bikerman and Damon, 1966
Tucson Mtns. — Northern part, near Safford Peak. Unit considered to be basal vitrophyre of upper andesite, which overlies Safford tuff. Also reported in Damon and Bikerman (1964) as Contzen Pass sill. Avra quad., PM county (32° 19.72', 111° 8.10'). L-1, K%= 6.7, *Ar=56, #5-A-2.

26.60 ± 0.60 # 761
KA/w.r./andesite **Bear Spring andesite** Houser and others, 1985
Gila Mtns. -- Southern part, near Bear Spring. No analytical data reported. Safford quad., GM county (32° 57.98', 109° 37.57'). L-1, #H85:B.

26.70 ± 1.30 ** # 762
FT/zirc/latite porphyry **Whitetail Canyon latite porph.** Drewes, 1982
Chiricahua Mtns. -- Apatite date from the same sample with a large uncertainty is discordant and suggests annealing. Approximate lat-lon. No analytical data reported. Cochise Head quad., CH county (32° 1.00', 109° 18.00'). L-2.

26.70 ± 2.00 # 763
KA/biot/rhyolite tuff **Patagonia tuff** Marvin and others, 1973
Patagonia Mtns. -- Additional date reported by Damon and Bikerman (1964) for same locality. Cumero Canyon quad., SC county (31° 29.25', 110° 48.25'). L-2, K%= 5.6, *Ar=20, #M73:52.

26.70 ± 2.00 # 764
KA/biot/latite vitrophyre **Grosvenor Hills Volcanics** Marvin and others, 1973
Santa Rita Mtns. -- Sample 66D170. Patagonia quad., SC county (31° 31.25', 110° 50.92'). L-2, K%= 5.4, *Ar=71, #M73:17.

26.70 ± 0.50 # 765
KA/biot/quartz latite **Owl Head Butte volcanics** Banks and others, 1978b
Tortolita Mtns. — Porphyritic quartz latite flow in upper part of volcanic section near Chief Butte. Tortolita Mtns. quad., PN county (32° 37.25', 111° 3.25'). L-3, K%= 7.0, *Ar=51, #TMN-92.

26.70 ± 0.90 # 766
KA/ /volcanic rock **Bryce Mtn. volcanics** Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. area. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-5, C-?, #AV-14B.

26.70 ± 0.00 # 767
KA/w.r./andesite **Badger Den Well andesite** Richter and others, 1981
Whitlock Mtns. — Southern part of Javelina Peak. Porphyritic andesite. No analytical data reported. Javelina Peak quad., GM county (32° 33.20', 109° 23.58'). L-1, #R81:G.

26.71 ± 0.65 # 768
KA/sani/ash-flow tuff **Pantano Fm. (?)** Shafiqullah and others, 1978
Babocomari River area — Unwelded ash-flow tuff within a sequence containing red arkose and overlain by thinly bedded, fresh-water limestone. Mustang Mtns. quad., CH county (31° 38.03', 110° 26.70'). L-1, K%= 6.3, *Ar=89, #PED-10-70.

26.90 ± 1.90 # 769
KA/plag/rhyodacite vitrophyre **Grosvenor Hills Volcanics** Marvin and others, 1973
Santa Rita Mtns. -- Sample 66D710. San Cayetano Mtns. quad., PM county (31° 34.08', 110° 53.17'). L-2, K%= 0.7, *Ar=56, #M73:16.

26.90 ± 0.90 # 770
KA/biot/granodiorite **Happy Valley Granodiorite** Marvin and others, 1973
Rincon Mtns. — Happy Valley area. Galleta Flat West quad., PM county (32° 7.00', 110° 25.00'). L-2, K%= 7.7, *Ar=68, #M73:81.

26.90 ± 1.00 # 771
KA/biot/tuff **Laguna volcanics** Marvin and Dobson, 1979
Laguna Mtns. -- From the top of a pale purple, porous vitric-crystal tuff bed overlain by fanglomerate of the Kinter Fm. Laguna Dam quad., YU county (32° 48.22', 114° 28.83'). L-2, K%= 6.4, *Ar=48, #5-15-55A.

26.90 ± 1.40 # 772
KA/ /volcanic rock Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. — Bryce Mtn. area. From upper part of volcanic section. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-2A.

26.92 ± 2.40 # 773
KA/plag/andesite porphyry Turkey Track porphyry Shafiqullah and others, 1978
Rincon Mtns. -- Mineta Ridge. Turkey Track porphyry that overlies Mineta Fm. Soza Canyon quad., PM county (32° 20.25', 110° 29.83'). L-1, K%= 1.2, *Ar=21, #PED-03-69.

26.94 ± 0.80 # 774
KA/plag/andesite porphyry Turkey Track porphyry Percious, 1968
Del Bac Hills — Additional date on HF-leached plagioclase from same sample is 28.0 m.y. San Xavier Mission quad., PM county (32° 5.13', 111° 2.50'). L-1, K%= 0.8, *Ar=66, #JKP-09-67.

27.00 ± 1.70 ** # 775
FT/zirc/dacitic lithic tuff Copper Peak lithic tuff Drewes, 1985
Dos Cabezas Mtns. -- Field relations suggest a Paleocene or Upper Cretaceous age; this date is thought to reflect a post-emplacement annealing event. No analytical data reported. Dos Cabezas quad., CH county (32° 12.80', 109° 34.23'). L-2.

27.00 ± 1.00 # 776
KA/biot/kersantite Mission Mine post-ore dike Marvin and others, 1973
Sierrita Mtns. — Mission Mine. Unmineralized dike cutting hypogene copper ore body. Twin Buttes quad., PM county (31° 59.70', 111° 4.00'). L-2, K%= 6.9, *Ar=86, #M73:02.

27.00 ± 2.00 # 777
KA/biot/granite Stronghold Granite Marvin and others, 1973
Dragoon Mtns. -- Middle Tertiary pluton. Knob Hill quad., CH county (31° 56.00', 110°0.00'). L-2, K%= 7.5, *Ar=74, #M73:90.

27.00 ± 0.50 # 778
KA/ /volcanic rock Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-11A.

27.00 ± 3.20 # 779
KA/plag/rhyolite Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. -- Flow in extreme southwest corner of range. Picacho SW quad., LP county (33° 3.87', 114° 38.82'). L-7, K%= 0.8, *Ar=17, #2181.

27.00 ± 1.10 # 780
KA/biot/andesite dike Guadalupe dike Kress and others, 1985
Mule Mtns. -- Near southeast corner. Guadalupe Canyon quad., CH county (31° 21.80', 109° 48.80'). L-5, K%= 7.1, *Ar=40, #AWL-11-83.

27.10 ± 3.40 # 781
FT/zirc/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Western side, north of Cargodera Canyon. Sphene-bearing, medium-grained granite, also referred to as quartz monzonite of Samaniego Ridge. Hbl and bio separates from this sample yield 22.9 and 24.6 m.y. K-Ar ages respectively. Mt. Lemmon quad., PM county (32° 27.50', 110° 52.00'). L-2, #ML-61.

27.10 ± 0.50 ** # 782
KA/biot/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. — Date attributed to Creasey (1979, written comm.). Hornblende date on same sample is 64.4 m.y. Both dates interpreted as reduced ages on a late Cretaceous pluton (65-70 m.y.). No analytical data reported. Bellota Ranch quad., PN county (32° 30.00', 110° 40.00'). L-3, #BR2.

27.10 ± 0.50 ** # 783
KA/biot/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. -- Analytical data not published. Date attributed to Creasey (1979, written comm.). Possibly on same sample as 38.4 m.y. date on hornblende. Both dates are cooling ages on a late Cretaceous pluton (65-75 m.y.). Bellota Ranch (?) quad., PN county (32° 30.00', 110° 40.00'). L-3, #K80:05.

27.13 ± 1.20 # 784
KA/biot/ash-flow tuff Corral de Piedras welded tuff Damon and Bikerman, 1964
Tumacacori Mtns. — Latitude originally misreported as 32 degrees. Tombstone SE quad., SC county (31° 34.10', 111° 5.50'). L-1, K%= 5.0, *Ar=56, #PED-09-62.

27.20 ± 0.80 # 785
KA/biot/andesite Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. — Andesite-rhyodacite from lower part of Galiuro Volcanics. Location from Johnson and Todd (1973). Bassett Peak quad., GM county (32° 33.00', 110° 19.00'). L-3, K%= 7.0, *Ar=50, #CK:11.

27.20 ± 0.80 # 786
KA/biot/rhyolite tuff Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. — Holy Joe Member. Location from Johnson and Todd (1973). Holy Joe Peak quad., PN county (32° 51.57', 110° 32.10'). L-3, K%= 6.8, *Ar=75, #CK:07.

27.20 ± 0.60 # 787
KA/biot/tuff Montana Peak fm. Shafiqullah and others, 1978
Atascosa Mtns. — Montana Peak. County listed in original reference is incorrect. Ruby quad., SC county (31° 26.06', 111° 13.08'). L-1, K%= 6.7, *Ar=73, #UAKA-77-66.

27.25 ± 1.10 # 788
KA/sani/rhyolite tuff Rhyolite Canyon Fm. Marjaniemi, 1969
Chiricahua Mtns. — Member 6 of Rhyolite Canyon Fm. Cochise Head quad., CH county (32°0.40', 109° 18.70'). L-1, K%= 5.8, *Ar=42, #PED-12-62A.

27.29 ± 0.57 # 789
KA/w.r./basaltic andesite Galiuro Volcanics (?) Scarborough and Wilt, 1979
Galiuro Mtns. — Teran Basin. Basaltic andesite flow that overlies about 1525 m of reddish clastic rocks. The andesite sequence is cut by Turkey Track dikes and intrusions. Soza Mesa quad., CH county (32° 17.07', 110° 16.40'). L-1, K%= 2.0, *Ar=84, #UAKA-78-41.

27.30 ± 1.10 # 790
KA/horn/latite Sullivan Buttes Latite Krieger and others, 1971
Chino Valley — Sample PA4 from McKee and Anderson (1972). Chino Valley North quad., YA county (34° 51.13', 112° 25.32'). L-3, K%= 1.5, *Ar=76, #A-44.

27.40 ± 0.00 ** # 791
SR/min./quartz diorite Leatherwood quartz diorite Damon and others, 1969
Santa Catalina Mtns. — Isochron constructed from whole rock, biotite, potassium feldspar, epidote and plagioclase. Age reflects homogenization during 28 Ma cooling or thermal event. Sri=0.7090+/-0.0010, 5 pts. Mt. Lemmon quad., PM county (32° 26.00', 110° 45.00'). L-1, #PED-01-68.

27.40 ± 0.80 # 792
KA/biot/rhyolite tuff Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. — Holy Joe Member. Brandenburg Mtn. quad., PN county (32° 55.00', 110° 32.50'). L-3, K%= 6.6, *Ar=87, #CK:08.

27.40 ± 0.90 # 793
KA/feld/air-fall tuff A Mtn. air-fall tuff Bikerman and Damon, 1966
Tucson Mtns. -- A Mtn. Tuff overlies conglomerate and A Mtn. basaltic andesite and underlies Tumamoc Hill basaltic andesite. Additional date on feldspar plus glass from same outcrop is too young. Tucson quad., PM county (32° 12.78', 110° 59.32'). L-1, K%= 5.1, *Ar=77, #PED-01-62B.

27.41 ± 0.66 # 794
KA/w.r./basaltic andesite Woolsey Peak volcanics Shafiqullah and others, 1980
Gila Bend Mtns. — Porphyritic basaltic andesite flow that underlies fanglomerates and younger lava flows. Also reported by Schoustra and others (1976). Spring Mtn. quad., MA county (33° 12.00', 112° 46.00'). L-1, K%= 1.7, *Ar=87, #UAKA-73-26.

27.50 ± 0.80 ** # 795
KA/orth/gneissic granite Forerange gneiss Livingston and others, 1967
Santa Catalina Mtns. -- Forerange. Light-colored band in gneiss, posssibly equivalent to Wilderness granite. Also reported by Mauger and others (1968). Agua Caliente Hill quad., PM county (32° 20.30', 110° 41.40'). L-1, K%=11.1, *Ar=94, #PED-18-62L.

27.60 ± 0.80 # 796
KA/w.r./andesite porphyry Turkey Track porphyry Percious, 1968
Del Bac Hills — Dated material was groundmass after removal of magnetic fraction. Radiogenic argon misreported in original reference. San Xavier Mission quad., PM county (32° 5.13', 111° 2.50'). L-1, K%= 3.9, *Ar=73, #JKP-09-67.

27.60 ± 11.90 # 797
SR/w.r./granite Telegraph Pass Granite Reynolds, 1985
South Mtns. — Isochron constructed from two granite samples, a granitic dike, and an aplite in granite. Similar initial ratios for rock types support a comagmatic origin. Recalculated age from Reynolds and others (1986). Sri=0.7062+/-0.0002, 4 pts. Lone Butte quad., MA county (33° 20.30', 112° 4.70'). L-1, #TGP-1 TO 4.

27.60 ± 1.20 # 798
KA/w.r./basaltic andesite A Mtn. basaltic andesite Bikerman and Damon, 1966
Tucson Mtns. — Sentinel Peak. Unit overlies Turkey Track porphyry. Also reported by Damon and Bikerman (1964). Brown Mtn. quad., PM county (32° 12.93', 111° 8.10'). L-1, K%= 1.6, *Ar=56, #PED-17-63.

27.60 ± 0.90 ** # 799
KA/biot/granite Espiritu Canyon granite Marvin and Cole, 1978
Rincon Mtns. — Date represents cooling ages on an early Tertiary pluton, equivalent to the Wilderness granite. Soza Canyon quad., PM county (32° 15.50', 110° 28.67'). L-2, K%= 7.5, *Ar=78, #71D194.

27.60 ± 6.80 # 800
KA/plag/andesite Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. -- Sample collected from flow near contact with crystalline basement rocks. Picacho NW quad., LP county (33° 13.57', 114° 38.90'). L-7, K%= 0.6, *Ar=8, #2178.

27.60 ± 0.70 # 801
KA/biot/ash-flow tuff Horseshoe Canyon volcanics Bryan, 1986
Chiricahua Mtns. — Base of hill on south side of the entrance of Horseshoe Canyon. Portal quad., CH county (31° 46.23', 109° 12.20'). L-1, K%= 7.2, *Ar=67, #UAKA-84-87.

27.67 ± 1.10 # 802
KA/biot/rhyolite tuff Copper Penny tuff Wilkins and Heidrick, 1982
Buckskin Mtns. -- Copper Penny area. Devitrified, slightly welded rhyolitic tuff, 152 m structurally above Whipple-Buckskin detachment fault. Swansea quad., LP county (34° 9.82', 113° 53.73'). L-5, K%= 5.8, *Ar=48, #NS-11.

27.70 ± 3.80 # 803
KA/w.r./rhyolite tuff Sil Murk Fm. Eberly and Stanley, 1978
Gila Bend Mtns. -- Welded rhyolite tuff in upper part of formation. Citrus Valley East quad., MA county (33° 4.87', 112° 47.80'). L-B, K%= 4.8, *Ar=15, #ES:99.

27.70 ± 3.00 # 804
KA/horn/rhyolite tuff Patagonia tuff Marvin and others, 1973
Patagonia Mtns. — East of Harshaw. Sample 62D250. Harshaw quad., SC county (31° 27.67', 110° 40.00'). L-2, K%= 0.4, *Ar=42, #M73:51.

27.70 ± 3.00 # 805
KA/horn/latite vitrophyre Grosvenor Hills Volcanics Marvin and others, 1973
Santa Rita Mtns. -- Southern part, near Hangmans Canyon. Sample 66D170. Patagonia quad., SC county (31° 31.25', 110° 50.92'). L-2, K%= 0.6, *Ar=44, #M73:17.

27.70 ± 1.00 ** # 806
KA/musc/schist Rincon Mtns. schist Mauger and others, 1968
Rincon Mtns. — Schist lens, below Mica Mtn. Also reported by Damon and others (1963a). Rincon Valley quad., PM county (32° 13.80', 110° 31.00'). L-1, K%= 7.1, *Ar=54, #PED-29-60.

27.70 ± 0.70 ** # 807
KA/biot/granite Oracle Granite (?) Shafiqullah and others, 1980
Durham-Suizo area — On small inselbergs north of the Tortolita Mtns., near Brady Wash. Coarse-grained granite, similar to Oracle Granite. Tortolita Mtns. quad., PN county (32° 43.60', 111° 8.20'). L-1, K%= 7.3, *Ar=91, #UAKA-63-36.

27.84 ± 0.68 # 808
KA/sani/ash-flow tuff Pantano Fm. (?) Shafiqullah and others, 1978
Babocomari River area -- Blake's Spring, north of Huachuca Mtns. Biotite-quartz, ash-flow tuff interbedded with tilted conglomerate composed primarily of volcanics and Paleozoic rocks. Pyeatt Ranch quad., CH county (31° 37.27', 110° 25.27'). L-1, K%= 8.3, *Ar=91, #PED-11-70.

27.90 ± 1.50 # 809
FT/zirc/tuff Guadalupe Canyon tuff Erb, 1979
Peloncillo Mtns. — Guadalupe Canyon tuff, erupted during the formation of the resurgent Geronimo Trail cauldron. Guadalupe Canyon quad., CH county (31° 29.50', 109° 4.75'). L-G, #ED294.

27.98 ± 0.80 # 810
KA/plag/andesite porphyry Turkey Track porphyry Percious, 1968
Del Bac Hills -- Plagioclase leached by HF before analysis. San Xavier Mission quad., PM county (32° 5.13', 111° 2.50'). L-1, K%= 0.8, *Ar=67, #JKP-09-67.

28.00 ± 0.90 # 811
KA/biot/foliated granite Catalina granite (?) Mauger and others, 1968
Tortolita Mtns. -- Wild Burro Canyon. Referred to as quartz monzonite gneiss in original reference. Ruelas Canyon quad., PM county (32° 28.00', 111° 5.00'). L-1, K%= 4.9, *Ar=72, #PED-20-62.

28.00 ± 1.10 # 812
KA/biot/granodiorite Happy Valley Granodiorite Marvin and others, 1973
Rincon Mtns. -- Happy Valley. Cross-cutting pegmatite dike yields 37.7 m.y. K-Ar muscovite age. Sample 69D93. Happy Valley quad., PM county (32° 12.00', 110° 27.00'). L-2, K%= 7.4, *Ar=85, #M73:82.

28.00 ± 1.50 # 813
KA/ /basaltic andesite Natanes volcanics Strangway and others, 1976
Natanes Plateau -- Flow overlain by ash-flow tuffs and rhyolites. Generalized lat-lon. Analytical data and type of material dated not reported. Unknown quad., AP county (33° 40.00', 109° 50.00'). L-C, C-?, #NP-1A.

28.03 ± 0.60 # 814
KA/w.r./rhyolite Round Top rhyolite Peirce and others, 1979
Apache Segment -- Mogollon Rim, Round Top Mtn. Rhyolite overlying rim gravel. Round Top Mtn. quad., GI county (33° 56.01', 110°0.57'). L-1, K%= 5.6, *Ar=97, #UAKA-76-110.

28.10 ± 3.10 # 815
PT/sphe/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Samaniego Ridge. Also referred to as quartz monzonite of Samaniego Ridge. Biotite from this sample yields a 23.8 m.y. K-Ar age. Oracle quad., PN county (32° 31.50', 110° 48.00'). L-2, #BR-16.

28.10 ± 0.90 ** # 816
KA/biot/granite Kitt Peak granite Damon and Bikerman, 1964
Quinlan Mtns. -- Kitt Peak. Date represents cooling age on sphene-bearing Jurassic granite. Kitt Peak quad., PM county (31° 58.20', 111° 35.50'). L-1, K%= 6.6, *Ar=77, #PED-02-62.

28.10 ± 0.80 # 817
KA/biot/rhyolite dike Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. — Dike cutting lower andesite unit of Galiuro Volcanics. Brandenburg Mtn. quad., PN county (32° 55.00', 110° 32.50'). L-3, K%= 7.0, *Ar=17, #CK:10.

28.10 ± 2.40 ** # 818
KA/horn/granodiorite gneiss Arizona State A-1 gneiss Reif and Robinson, 1981
Florence area -- Granodiorite gneiss at 5483 m in Phillips Arizona State A-1 well, southeast of Florence. Date represents cooling age on older, probably Precambrian protolith. Picacho Reservoir SE quad., PN county (32° 51.00', 111° 17.50'). C-?, K%= 0.4, #RR:7.

28.20 ± 0.90 # 819
KA/ /volcanic rock Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. — Bryce Mtn. Upper part of volcanic section. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-4B.

28.20 ± 1.00 # 820
KA/ /volcanic rock Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-5, C-?, #AV-11B.

28.20 ± 1.50 ** # 821
KA/biot/granodiorite gneiss Arizona State A-1 gneiss Reif and Robinson, 1981
Florence area -- Granodiorite gneiss at 3979-3994 m in Phillips Arizona State A-1 well, southeast of Florence. Interpreted as cooling age on older protolith. Picacho Reservoir SE quad., PN county (32° 51.00', 111° 17.50'). C-?, K%= 1.0, #RR:4.

28.30 ± 1.30 # 822
KA/biot/granodiorite San Cayetano granodiorite Marvin and others, 1973
Santa Rita Mtns. -- Middle Tertiary pluton. Sample 65D687. San Cayetano Mtns. quad., PM county (31° 32.25', 110° 59.00'). L-2, K%= 6.9, *Ar=84, #M73:18.

28.30 ± 1.00 ** # 823
KA/biot/gneiss Leatherwood quartz diorite (?) Livingston and others, 1967
Santa Catalina Mtns. -- Forerange. Dark band in gneiss. Also reported by Mauger and others (1968). Agua Caliente Hill quad., PM county (32° 20.30', 110° 41.40'). L-1, K%= 7.7, *Ar=74, #PED-18-62D.

28.30 ± 0.80 # 824
KA/biot/rhyodacite Faraway Ranch Fm. Marjaniemi, 1968
Chiricahua Mtns. -- Flow in Member 7 of Faraway Ranch Fm. Cochise Head quad., CH county (32° 1.10', 109° 22.40'). L-1, K%= 6.8, *Ar=69, #DM-01-67.

28.30 ± 0.70 ** # 825
KA/w.r./ultramylonite Pinaleno ultramylonite Shafiqullah and others, 1980
Pinaleno Mtns. — Ultramylonite zone cutting Precambrian granite. Lat-lon incorrect in original reference. Lat-lon given here is for Ash Canyon. Thatcher quad., GM county (32° 46.20', 109° 51.80'). L-1, K%= 2.9, *Ar=76, #GR-MY-1.

28.30 ± 0.63 # 826
KA/w.r./alkali basalt Cloudburst Fm. Shafiqullah and others, 1978
San Manuel area -- Cloudburst Wash. Lower sequence of basic volcanics in upper part of fanglomerates in type section of Cloudburst Fm. Oracle quad., PN county (32° 42.08', 110° 45.20'). L-1, K%= 1.5, *Ar=68, #UAKA-77-61.

28.40 ± 3.10 # 827
FT/sphe/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Western side, north of Cargodera Canyon. Sphene-bearing, medium-grained granite, also referred to as quartz monzonite of Samaniego Ridge. Hbl and bio separates from this sample yield 22.9 m.y. and 24.6 m.y. K-Ar ages respectively Mt. Lemmon quad., PM county (32° 27.50', 110° 52.00'). L-2, #ML-61.

28.40 ± 0.50 ** # 828
KA/horn/microdiorite dike South Mtns. diorite dike Reynolds, 1985
South Mtns. -- Sample from coarse-grained center of undeformed dike cutting South Mountains Granodiorite, southeastern South Mtns. Date is too old because granodiorite host is dated at 22-25 m.y. by Rb-Sr and U-Pb methods. Lone Butte quad., MA county (33° 19.90', 112°0.77'). L-1, K%= 1.1, *Ar=82, #UAKA-79-133.

28.43 ± 0.62 # 829
KA/biot/granite Circle I Hills granite Shafiqullah and others, 1978
Sulphur Springs Valley -- Circle I Hills, northeast of Willcox. Willcox quad., CH county (32° 21.35', 109° 50.31'). L-1, K%= 7.2, *Ar=62, #UAKA-73-13.

28.50 ± 2.00 ** # 830
FT/zirc/ash-flow tuff Dug Road Mtn. rhyolite Drewes, 1981
Chiricahua Mtns. -- Drewes (1981) correlates this unit with similar rocks typically dated at 70-73 m.y. old. Either the correlation is inappropriate or this date is reset. No analytical data reported. Bowie Mtn. South quad., CH county (32° 5.16', 109° 22.65'). L-2.

28.50 ± 2.20 # 831
KA/horn/rhyodacite Grosvenor Hills Volcanics Marvin and others, 1973
Santa Rita Mtns. -- Rhyodacite vitrophyre laccolith intruding Grosvenor Hills Volcanics. Sample 64D581. San Cayetano Mtns. quad., SC county (31° 35.58', 110° 55.58'). L-2, K%= 0.6, *Ar=59, #M73:19.

28.50 ± 1.90 # 832
KA/biot/andesite Safford Peak upper andesite Bikerman and Damon, 1966
Tucson Mtns. -- Safford Peak. Massive cliff-forming unit that forms much of the capping scarp around Safford Peak. Also reported by Damon and Bikerman (1964). Avra quad., PM county (32° 19.47', 111° 7.62'). L-1, K%= 6.5, *Ar=42, #MB-02-62.

28.50 ± 1.10 ** # 833
KA/biot/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. -- Date attributed to Soderman (1979, written comm.). Cooling age on late Cretaceous pluton (65-75 m.y.). Generalized lat-lon. Analytical data not published. Bellota Ranch quad., PM county (32° 27.00', 110° 43.00'). #K80:69.

28.50 ± 0.60 ** # 834
KA/musc/granite Espiritu Canyon granite Marvin and Cole, 1978
Rincon Mtns. -- Cooling age on early Tertiary pluton, equivalent to Wilderness granite. Soza Canyon quad., PM county (32° 15.50', 110° 28.67'). L-2, K%= 8.4, *Ar=89, #71D194.

28.52 ± 1.40 # 835
KA/biot/andesite Petroglyph Hill andesite Damon and Bikerman, 1964
Silver Bell Mtns. — Petroglyph Hill. Andesite dips approximately 10 degrees east, away from the open pit mines. Also reported by Mauger and others (1965). Silver Bell Peak quad., PM county (32° 22.83', 111° 24.35'). L-1, K%= 5.9, *Ar=50, #PED-01-63.

28.57 ± 2.60 # 836
KA/biot/tuff Helmet Fanglomerate Damon and Bikerman, 1964
Sierrita Mtns. — Fine tuff intercalated in Helmet Fanglomerate. Twin Buttes quad., PM county (31° 55.82', 111° 6.82'). L-1, K%= 6.0, *Ar=34, #RM-01-64.

28.60 ± 1.20 # 837
FT/zirc/dacite porphyry Chiricahua volcanics Marvin and others, 1978
Chiricahua Mtns. -- Dacite porphyry. Portal quad., CH county (31° 57.73', 109° 11.22'). L-2, #M78:33.

28.60 ± 1.10 ** # 838
KA/biot/ash-flow tuff Patsy Mine Volcanics Anderson and others, 1972
Black Mtns. — Northern part. Densely welded ash-flow tuff on west flank of Black Mtns. Additional dates on same sample are 23.4 m.y. on sanidine and 41.9 m.y. on biotite. Biotite ages are probably too old. Black Canyon quad., MO county (35° 46.62', 114° 36.05'). L-2, K%= 7.1, *Ar=85, #A72:45.

28.60 ± 2.70 # 839
KA/plag/andesite porphyry Turkey Track porphyry Bikerman and Damon, 1966
Tucson Mtns. -- Tumamoc Hill are. The lowest middle Tertiary volcanic unit in the Tumamoc Hill area. Also reported by Damon and Bikerman (1964). Tucson quad., PM county (32° 12.47', 110° 59.93'). L-1, K%= 0.7, *Ar=35, #PED-16-63.

28.60 ± 1.90 ** # 840
KA/horn/diorite dike Harquahala diorite dike Shafiqullah and others, 1980
Harquahala Mtns. — Northwest-trending dike that cuts metamorphic and granitic rocks. Biotite date from same sample is 22.1 m.y. Gladden quad., MA county (33° 45.70', 113° 17.80'). L-1, K%= 1.5, *Ar=81, #HLA-2.

28.60 ± 2.00 # 841
KA/biot/rhyodacite Faraway Ranch Fm. Marjaniemi, 1968
Chiricahua Mtns. -- Cochise Head quad., CH county (32° 1.10', 109° 22.40'). L-1, K%= 6.8, *Ar=26, #DM-01-67.

28.70 ± 4.20 # 842
KA/biot/basaltic andesite Clanton Hills volcanics Eberly and Stanley, 1978
Clanton Hills -- Date from nearby isolated hills containing a southwest-dipping dark volcanic sequence. Description of locality from Scarborough and Wilt (1979). Eagletail Mtns. quad., YU county (33° 16.72', 113° 29.68'). L-B, K%= 1.2, *Ar=14, #ES:102.

28.70 ± 1.10 # 843
KA/biot/dacite Pantano Fm. Marvin and others, 1973
Cienega Gap area — North of Empire Mtns. Sample F-94-68. Mt. Fagan quad., PM county (31° 52.80', 110° 39.85'). L-2, K%= 6.8, *Ar=84, #M73:73.

28.70 ± 1.00 # 844
KA/biot/rhyodacite Split Rock rhyodacite Drewes, 1982
Chiricahua Mtns. -- Northern part about 1.5 km northwest of Split Rock. Basal vitrophyre from rhyodacite flow dated. No analytical data reported. Cochise Head quad., CH county (32°0.59', 109° 15.73'). L-2, #DH82:1.

28.70 ± 0.00 # 845
KA/w.r./andesite Badger Den Well andesite Richter and others, 1981
Whitlock Mtns. -- Southern part of Javelina Peak. Porphyritic andesite. No analytical data reported. Javelina Peak quad., GM county (32° 33.20', 109° 23.58'). L-1, #R81:G.

28.80 ± 3.70 ** # 846
FT/sphe/mafic inclusion Catalina granite inclusion Creasey and others, 1977
Santa Catalina Mtns. — Cargodera Canyon. Mafic inclusion in middle Tertiary Catalina granite, which is also called quartzmonzonite of Samaniego Ridge. Oro Valley quad., PM county (32° 27.50', 110° 53.00'). L-2, #ML-60.

28.80 ± 0.50 # 847
KA/ /basaltic andesite Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-8A.

28.80 ± 0.90 # 848
KA/ /volcanic rock Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. — Bryce Mtn. area. Basal part of normally magnetized volcanic rocks. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-5, C-?, #AV-17B.

28.90 ± 0.80 # 849
KA/biot/rhyolite tuff Galiuro Volcanics Creasey and Krieger, 1978
Galiuro Mtns. — Ash-flow tuff in andesite-rhyodacite and ash-flow tuff unit of Galiuro Volcanics. Location from Johnson and Todd (1973). Brandenburg Mtn. quad., PN county (32° 55.00', 110° 32.50'). L-3, K%= 7.1, *Ar=81, #CK:09.

28.90 ± 1.10 ** # 850
KA/biot/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. —Marble Peak area. Date attributed to Soderman (1979, written comm.). Date is cooling age on late Cretaceous pluton (65-75 m.y.). Generalized lat-lon. Analytical data not published. Bellota Ranch quad., PM county (32° 27.00', 110° 43.00'). #K80:52.

29.00 ± 0.50 # 851
KA/ /volcanic rock Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. — Bryce Mtn. area. Basal part of normally magnetized volcanic rocks. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-18B.

29.10 ± 3.30 # 852
FT/zirc/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. -- Western Samaniego Ridge. Sphene-bearing, biotite-hornblende granite, also referred to as quartz monzonite of Samaniego Ridge. Biotite and hornblende from this sample yield 23.7 m.y. and 24.0 m.y. K-Ar ages respectively. Oracle quad., PN county (32° 31.50', 110° 50.00'). L-2, #BR-21.

29.10 ± 1.10 ** # 853
KA/biot/schist Rincon Mtns. schist Marvin and others, 1973
Rincon Mtns. — Happy Valley area. Sample 69D92. Happy Valley quad., PM county (32° 12.00', 110° 27.00'). L-2, K%= 7.9, *Ar=95, #M73:84.

29.10 ± 3.50 ** # 854
KA/plag/basalt Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. — Geologically unreasonable age for this sample. Picacho quad., LP county (33° 5.60', 114° 31.72'). L-7, K%= 0.7, *Ar=16, #2139.

29.10 ± 3.50 # 855
KA/plag/dacite Trigo Mtns. volcanics Weaver, 1982
Trigo Mtns. — Located near contact with crystalline basement. Picacho quad., LP county (33° 3.28', 114° 37.50'). L-7, K%= 1.1, *Ar=13, #2169.

29.40 ± 0.60 # 856
KA/biot/tuff Sil Murk Fm. Shafiqullah and others, 1980
Gila Bend Mtns. — Reddish-brown tuff associated with an eolian cross-bedded sandstone. Also reported by Schoustra and others (1976). Spring Mtn. quad., MA county (33° 12.00', 112° 47.00'). L-1, K%= 6.7, *Ar=89, #UAKA-73-25.

29.47 ± 0.90 # 857
KA/biot/tuff Pantano Fm. Shafiqullah and others, 1978
Cienega Gap area — Davidson Canyon. Vail quad., PM county (32° 1.40', 110° 38.10'). L-1, K%= 7.4, *Ar=66, #PED-07-65.

29.59 ± 0.90 # 858
KA/biot/granite Jhus Canyon granite Shafiqullah and others, 1978
Chiricahua Mtns. -- Middle Tertiary pluton. Portal quad., CH county (31° 58.03', 109° 14.53'). L-1, K%= 7.3, *Ar=81, #PED-08-69.

29.60 ± 0.90 ** # 859
KA/musc/schist Rincon Mtns. schist Marvin and others, 1973
Rincon Mtns. -- Biotite date on same sample is 34.6 m.y. Sample 70D143. Happy Valley quad., PM county (32° 13.50', 110° 25.50'). L-2, K%= 8.7, *Ar=69, #M73:85.

29.60 ± 1.10 ** # 860
KA/biot/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. — Marble peak area. Date attributed to Soderman (1979, written comm.). Date represents cooling age on late Cretaceous pluton (65-75 m.y.). Generalized lat-lon. Analytical data not published. Bellota Ranch quad., PM county (32° 27.00', 110° 43.00'). #K80:51.

29.60 ± 2.10 # 861
KA/biot/granodiorite Ninemile granodiorite Erickson, 1981
Dos Cabezas Mtns. -- Weakly porphyritic, leucocratic granodiorite intruding the Sheep Canyon gneiss and Pinal Schist. Bowie Mtn. North quad., CH county (32° 13.50', 109° 28.67'). L-1, K%= 7.3, *Ar=28, #RCE-622-65.

29.61 ± 1.69 # 862
KA/sani/rhyolite tuff Faraway Ranch Fm. Shafiqullah and others, 1978
Chiricahua Mtns. -- Chiricahua National Monument, Erickson Ridge. Poorly welded rhyolite tuff, member 3 of Faraway Ranch Fm. Originally reported by Marjaniemi (1969). Rustler Peak quad., CH county (31° 59.40', 109° 22.00'). L-1, K%= 8.7, *Ar=89, #DM-02-68.

29.63 ± 0.80 # 863
KA/w.r./basaltic andesite Flattop basaltic andesite Elston and others, 1973
Blue Range area — Also reported by Damon and others (1968, p. AIV-6). Duncan quad., GN county (32° 41.00', 109° 12.28'). L-1, K%= 2.2, *Ar=69, #5.

29.80 ± 2.40 ** # 864
KA/w.r./K-rich volcanic Picacho Peak volcanics Eberly and Stanley, 1978
Avra Valley — East of Silver Bell Mtns. From 1,057-1,072 m in Berry No. 1 Federal. Probably K-metasomatized (6.85 percent K). Date probably slightly too old. Silver Bell Peak quad., PM county (32° 27.00', 111° 19.00'). L-B, K%= 6.9, *Ar=28, #ES:11.

29.90 ± 0.50 # 865
FT/zirc/dacite Superstition volcanics Stuckless and Sheridan, 1971
Superstition Mtns. — "Older dacite complex" underlying the Superstition Tuff. Sample collected at base of large dome. The uppermost flows of this unit intertongue with ash of the Siphon Draw Member of the Superstition Tuff. Goldfield quad., PN county (33° 24.50', 111° 24.92'). L-2, #AP244.

29.96 ± 0.74 # 866
KA/biot/granodiorite Pat Hills granodiorite Shafiqullah and others, 1978
Sulphur Springs Valley — Pat Hills. Granodiorite to quartz diorite stock that intrudes volcanics. Dos Cabezas SW quad., CH county (32°0.58', 109° 37.50'). L-1, K%= 6.9, *Ar=66, #UAKA-73-12.

30.00 ± 3.10 # 867
KA/w.r./basalt Palomas Plain basalt Eberly and Stanley, 1978
Palomas Plain -- Southern part, on small hill. Finely crystalline, nonvesicular basalt. Sample ES:105. Palomas Mtns. quad., YU county (33° 6.98', 113° 33.85'). L-1, K%= 1.9, *Ar=4, #UAKA-72-47.

30.00 ± 1.00 ** # 868
KA/plag/gneiss Forerange gneiss Livingston and others, 1967
Santa Catalina Mtns. -- Forerange. Light-colored band in gneiss, possibly equivalent to early Tertiary Wilderness granite. Other dates on same sample are variably younger. Also reported by Mauger and others (1968). Agua Caliente Hill quad., PM county (32° 20.30', 110° 41.40'). L-1, K%= 2.7, *Ar=76, #PED-18-62L.

30.03 ± 0.65 # 869
KA/seri/veinlets Las Guijas vein Shafiqullah and others, 1978
Las Guijas — Las Guijas mine. Veinlets in andesite dike within Las Guijas alaskite. Attendant quartz veins contain zinc-tungsten mineralization. Whole-rock K-Ar age on dike is 31.43 m.y. Las Guijas quad., PM county (31° 39.43', 111° 22.75'). L-1, K%= 9.2, *Ar=87, #UAKA-75-105.

30.10 ± 3.00 # 870
FT/sphe/granite Catalina granite Creasey and others, 1977
Santa Catalina Mtns. — Western Samaniego Ridge. Sphene-bearing, biotite-hornblende granite, also referred to as quartz monzonite of Samaniego Ridge. Biotite and hornblende from this sample yield 23.7 m.y. and 24.0 m.y. K-Ar ages respectively. Oracle quad., PN county (32° 31.50', 110° 50.00'). L-2, #BR-21.

30.10 ± 1.00 # 871
KA/biot/rhyolite tuff Laguna volcanics Shafiqullah and others, 1980
Laguna Mtns. -- From top of a felsic to intermediate volcanic sequence approximately 60 m thick that unconformably overlies granitic breccia and a basement complex of granitic rocks. Tuff is in turn overlain by Kinter Fm. Laguna Dam quad., YU county (32° 48.90', 114° 28.30'). L-1, K%= 7.4, *Ar=60, #UAKA-65-04.

30.20 ± 0.90 ** # 872
KA/musc/gneissic granite Wilderness granite Mauger and others, 1968
Santa Catalina Mtns. -- Windy Point. Gneissic, mylonitic Wilderness granite of early Tertiary age. Biotite date on same sample is 25.4 m.y. Both dates are cooling ages. Also listed by Catanzaro and Kulp (1963). Agua Caliente Hill quad., PM county (32° 22.10', 110° 43.00'). L-1, K%= 6.9, *Ar=73, #PED-04A-58.

30.20 ± 0.80 ** # 873
KA/biot/quartz diorite Leatherwood quartz diorite Damon and others, 1969
Santa Catalina Mtns. -- Sample located within approx. 90 m of the southern boundary of the pluton. Rb-Sr mineral isochron on same sample is 27.4 m.y. Both dates represent cooling ages on late Cretaceous pluton. Mt. Lemmon quad., PM county (32° 26.00', 110° 45.00'). L-1, K%= 7.7, *Ar=64, #PED-01-68.

30.30 ± 0.60 ** # 874
KA/musc/pegmatite dike Baboquivari pegmatite Shafiqullah and others, 1980
Baboquivari Mtns. -- Thin, north-striking pegmatite dike in foliated to gneissic granite of the southern Baboquivari Mtns. Date is minimum age. Presumido Peak quad., PM county (31° 35.00', 111° 35.60'). L-1, K%= 8.7, *Ar=77, #UAKA-73-70.

30.30 ± 0.50 # 875
KA/ /volcanic rock **Bryce Mtn. volcanics** Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. area. Basal part of normally magnetized volcanic series. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-18B.

30.50 ± 0.90 ** # 876
KA/sani/ash-flow tuff **A Mtn. gray tuff** Bikerman and Damon, 1966
Tucson Mtns. -- Sentinel Peak. Gray, dacitic tuff that overlies thin ash-fall tuff unit. Age probably too old. Additional sanidine date on same sample is 26.4 m y. Also reported by Damon and Bikerman (1964). Tucson quad., PM county (32° 12.53', 110° 59.36'). L-1, K%= 5.4, *Ar=92, #PED-17-62.

30.60 ± 3.00 # 877
FT/apat/quartz monzonite xenolith **Garnet Ridge diatreme** Naeser, 1971
Chinle Valley -- Xenolith from pipe 2 of the Garnet Ridge kimberlite diatreme complex. Apatite age is concordant with apatite ages of two other xenoliths. Dennehotso quad., AP county (36° 55.60', 109° 46.90'). L-2, #GR4.

30.60 ± 3.00 # 878
FT/apat/granite xenolith **Buell Park diatreme** Naeser, 1971
Defiance Plateau -- Age is from the second of two xenoliths from diatreme matrix, which is itself intruded by minette dikes. Apatite age interpreted to date the cooling of the diatreme. Buell Park quad., AP county (35° 53.50', 109° 6.30'). L-2, #BP2B.

30.90 ± 3.00 # 879
FT/apat/granite xenolith **Garnet Ridge diatreme** Naeser, 1971
Chinle Valley -- Xenolith from pipe 2 of the Garnet Ridge kimberlite diatreme complex. Apatite age is concordant with apatites from two other xenoliths and dates the cooling of the diatreme after its emplacement. Dennehotso quad., AP county (36° 55.60', 109° 46.90'). L-2, #GR3.

30.91 ± 0.77 # 880
KA/biot/quartz monzonite **Swisshelm granodiorite** Shafiqullah and others, 1978
Swisshelm Mtns. -- Medium-grained stock that intrudes Cretaceous sedimentary rocks. Swisshelm Mtns. quad., CH county (31° 41.25', 109° 33.25'). L-1, K%= 7.2, *Ar=62, #UAKA-73-15.

31.00 ± 0.00 ** # 881
KA/orth/quartz monzonite **Texas Canyon Quartz Monzonite** Livingston and others, 1967
Little Dragoon Mtns. -- Anomalously young age, see other dates. Galleta Flat East quad., CH county (32° 3.67', 110° 4.50'). L-1, K%=11.5, *Ar=94, #PED-11-60.

31.00 ± 0.00 # 882
KA/w.r./vogesite **Dineh bi Keyah sill** Pohlmann, 1967
Lukachukai Mtns. -- Sill in Dineh bi Keyah Oil Field. Location from Marvin and Dobson (1979). Analytical data not published. Lukachukai quad., AP county (36° 28.50', 109° 9.33'). C-?.

31.10 ± 1.40 ** # 883
KA/biot/granodiorite gneiss **Arizona State A-1 gneiss** Reif and Robinson, 1981
Florence area -- Arizona State A-1 Well. Biotite-hornblende mix from granodiorite gneiss at 4573-4604 m. Date is interpreted as cooling age on older protolith. Picacho Reservoir SE quad., PN county (32° 51.00', 111° 17.50'). C-?, K%= 1.8, #RR:5.

31.30 ± 1.60 # 884
FT/zirc/andesitic lavas **Silver Spur Ranch andesite** Drewes, 1982
Chiricahua Mtns. -- Age is concordant with biotite K-Ar and apatite fission-track ages from the same sample. No analytical data reported. Cochise Head quad., CH county (32° 4.02', 109° 17.84'). L-2.

31.37 ± 1.20 # 885
KA/plag/andesite porphyry **Helmet Fanglomerate** Shafiqullah and others, 1978
Sierrita Mtns. -- Twin Buttes. Turkey Track porphyry flow with pillow structure and a scoriaceous oxidized surface that is contained within Helmet Fanglomerate. Also reported by Damon and others (1968). Twin Buttes quad., PM county (31° 57.10', 111° 4.50'). L-1, K%= 0.7, *Ar=44, #RM-02-64.

31.43 ± 0.68 # 886
KA/w.r./andesite dike **Las Guijas dike** Shafiqullah and others, 1978
Las Guijas -- Las Guijas mine. Andesite dike in Las Guijas alaskite. Sericite date on veinlets within dike is 30 m.y. Las Guijas quad., PM county (31° 39.43', 111° 22.75'). L-1, K%= 3.4, *Ar=93, #UAKA-75-105A.

31.50 ± 1.10 # 887
KA/biot/granodiorite **Bowie Mtn. granodiorite** Marvin and others, 1973
Chiricahua Mtns. -- Small stock cutting faulted Paleozoic rocks. Bowie Mtn. South quad., CH county (32° 6.00', 109° 24.00'). L-2, K%= 7.5, *Ar=79, #M73:99.

31.70 ± 0.70 ** # 888
KA/biot/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. — Generalized lat-lon. Analytical data not published. Date represents cooling age on late Cretaceous pluton. Mt. Lemmon (?) quad., PM county (32° 27.00', 110° 45.00'). L-1, #UAKA-76-116.

31.70 ± 1.20 # 889
KA/biot/granite Jhus Canyon granite Marvin and others, 1973
Chiricahua Mtns. -- Portal quad., CH county (31° 59.00', 109° 14.00'). L-2, K%= 6.9, *Ar=91, #M73:100.

31.77 ± 0.66 # 890
KA/w.r./andesite Nipper Fm. Shafiqullah and others, 1978
Chiricahua Mtns. -- Between Portal and Onion Saddle. Nipper Fm. contains pebble conglomerate and black shales that locally contain gastropods and fossil wood associated with chert pebbles. Portal quad., CH county (31° 54.30', 109° 14.50'). L-1, K%= 1.9, *Ar=87, #UAKA-76-113.

31.90 ± 0.90 ** # 891
KA/musc/gneissic granite Wilderness granite (?) Mauger and others, 1968
Santa Catalina Mtns. — Forerange. Cooling age on early Tertiary granite. Tucson North quad., PM county (32° 20.60', 110° 55.40'). L-1, K%= 7.0, *Ar=90, #PED-56-66.

32.00 ± 4.90 # 892
FT/apat/andesitic lavas Silver Spur Ranch andesite Drewes, 1982
Chiricahua Mtns. — Age is concordant with biotite K-Ar and zircon fission-track ages from the same sample. No analytical data reported. Cochise Head quad., CH county (32° 4.02', 109° 17.84'). L-2.

32.00 ± 0.30 ** # 893
KA/musc/gneissic granite Forerange gneiss Mauger and others, 1968
Santa Catalina Mtns. — Light-colored band in gneiss, possibly equivalent to early Tertiary Wilderness granite. Agua Caliente Hill quad., PM county (32° 20.30', 110° 41.40'). L-1, K%= 7.3, *Ar=85, #RM-01-66.

32.00 ± 2.00 ** # 894
KA/biot/andesite Turkey Canyon volcanics Goff and others, 1983
East Juniper Mtns. -- Andesite flow and cone (Juniper Cone). Date probably too old. Unit appears to be relatively uneroded and is thought to be younger than F78-88 (22.4 m.y.). Multiple dates on same sample are erratic. Turkey Canyon NE quad., YA county (35° 8.00', 112° 52.00'). L-7, K%= 7.2, *Ar=27, #BA78-72.

32.00 ± 1.10 # 895
KA/biot/andesite Cochise Head andesite Drewes, 1982
Chiricahua Mtns. — Northern part, about 1.5 km north of Cochise Head. No analytical data reported. Cochise Head quad., CH county (32° 4.02', 109° 17.84'). L-2, #DH82:2.

32.10 ± 0.70 # 896
KA/ /volcanic rock Bryce Mtn. volcanics Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Stratigraphically lower rocks give slightly younger ages. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-15B.

32.20 ± 1.20 ** # 897
KA/biot/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. — Marble Peak area. Date attributed to Soderman (1979, written comm.). Date represents cooling age on late Cretaceous pluton. Generalized lat-lon. Analytical data not published. Oracle quad., PM county (32° 27.00', 110° 43.00'). #K80:45.

32.30 ± 1.00 ** # 898
KA/biot/orthogneiss Gunsight orthogneiss Haxel and others, 1984
Gunsight Hills — Southeasternmost area. Hornblende-biotite orthogneiss. Pisinimo quad., PM county (32° 9.28', 112° 29.18'). L-3, K%= 7.7, *Ar=76, #GH-46A.

32.70 ± 4.90 # 899
FT/zirc/tuff Clifton tuff Wahl, 1980
Morenci area — A lithic, welded tuff exposed near Clifton, unconformably overlying Paleozoic sedimentary rocks. Clifton quad., GN county (33° 2.50', 109° 17.50'). L-M, #TF4A.

32.70 ± 2.00 # 900
KA/horn/granodiorite Emigrant Canyon stock Drewes, 1982
Chiricahua Mtns. — Northern part, collected in Emigrant Canyon. No analytical data reported. Cochise Head quad., CH county (32° 7.18', 109° 21.37'). L-2, #DH82:3.

32.90 ± 3.20 # 901
FT/apat/granite xenolith **Buell Park diatreme** Naeser, 1971
Defiance Plateau -- This age is from one of two xenoliths recovered from the diatreme matrix, which is itself intruded by minette dikes. Apatite age interpreted to date the cooling of the diatreme. Buell Park quad., AP county (35° 53.50', 109° 6.30'). L-2, #BP2A.

33.20 ± 6.00 # 902
FT/zirc/amphibolite xenolith **Garnet Ridge diatreme** Naeser, 1971
Chinle Valley -- Xenolith from pipe 2 of the Garnet Ridge kimberlite diatreme complex. Zircon age is discordant with zircon ages from other xenoliths. Dennehotso quad., AP county (36° 55.60', 109° 46.90'). L-2, #GR2.

33.20 ± 0.60 # 903
KA/biot/air-fall tuff **Whitetail Conglomerate** Banks and others, 1972
Ray area -- East of Ray Mine. Air-fall tuff near top of Whitetail Conglomerate. Underlies the Apache Leap tuff (20 m.y.). Hot Tamale Peak quad., PN county (33° 11.40', 110° 59.40'). L-3, K%= 6.1, *Ar=38, #B72:21.

33.50 ± 12.30 ** # 904
FT/apat/latite porphyry **Whitetail Canyon latite porph.** Drewes, 1982
Chiricahua Mtns. -- Zircon date from the same sample is discordant and suggests annealing. Approximate lat-lon. No analytical data reported. Cochise Head quad., CH county (32° 1.00', 109° 18.00'). L-2.

33.50 ± 1.80 # 905
FT/zirc/granodiorite **Whitetail Canyon granodiorite** Drewes, 1982
Chiricahua Mtns. -- Date is concordant with hornblende and biotite K-Ar ages from Emigrant Canyon (15 km NE), and slightly older than K-Ar biotite ages from Jhus Canyon (6 km SW). No analytical data reported. Cochise Head quad., CH county (32°0.92', 109° 17.87'). L-2.

33.50 ± 1.10 ** # 906
KA/musc/pegmatite **Wrong Mtn. Quartz Monzonite** Mauger and others, 1968
Rincon Mtns. -- Mica Mtn. Coarse-grained muscovite from pegmatite Also plotted in Figure 1 of Damon and others (1963a). Rincon Valley quad., PM county (32° 12.40', 110° 33.20'). L-1, K%= 7.3, *Ar=68, #PED-30-60.

33.50 ± 0.60 # 907
KA/biot/tuff **Whitetail Conglomerate** Krieger and others, 1979
Galiuro Mtns. -- Attributed to McKee (1978, written comm.). Analytical data not published. Brandenburg Mtn. quad., PN county (32° 55.00', 110° 32.50'). L-3, K%= 6.5, *Ar=58.

33.50 ± 3.40 ** # 908
KA/biot/granite **Dos Cabezas granite** Erickson, 1981
Dos Cabezas Mtns. -- Precambrian rapakivi quartz monzonite. Age interpreted to be reset by heating during quartz veining and mineralization associated with the 29-m.y.-old Ninemile stock. Dos Cabezas quad., CH county (32° 9.20', 109° 31.33'). L-1, K%= 6.2, *Ar=20, #RCE-653-65.

33.60 ± 2.70 # 909
KA/biot/rhyolite ash-flow tuff **Pantano Fm.** Damon and Bikerman, 1964
Cienega Gap area -- Near Davidson Canyon. Sanidine date on same sample is 37.6 m.y. Mt. Fagan quad., PM county (31° 59.80', 110° 38.60'). L-1, K%= 7.3, *Ar=37, #PED-13-62.

33.70 ± 1.00 # 910
KA/biot/tuff **Clifton tuff** Damon and others, 1966
Morenci area -- Across street from old Southern Pacific Railroad Station, downtown Clifton, on north side of San Francisco River. Clifton quad., GN county (33° 3.85', 109° 17.88'). L-1, K%= 7.0, *Ar=45, #PED-12-65.

33.70 ± 0.80 # 911
KA/ /volcanic rock **Bryce Mtn. volcanics** Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. area. Generalized lat-lon. Analytical data, material dated, and rock type not reported. Stratigraphically lower rocks give slightly younger ages. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-15B.

33.90 ± 2.60 # 912
KA/horn/andesite **Courtland andesite** Marvin and others, 1973
Dragoon Mtns. -- Southern part. Andesite overlies Sugarloaf tuff on small hill north of Courtland. Pearce quad., CH county (31° 48.00', 109° 47.00'). L-2, K%= 0.7, *Ar=66, #M73:91.

33.90 ± 0.60 # 913
KA/ /volcanic rock **Bryce Mtn. volcanics** Strangway and others, 1976
Gila Mtns. -- Bryce Mtn. Generalized lat-lon. Analytical data, material dated, and rock type not published. Stratigraphically lower rocks give slightly younger ages. Bryce Mtn. (?) quad., GM county (33°0.00', 109° 40.00'). L-C, C-?, #AV-15B.

34.00 ± 0.80 # 914
KA/biot/granodiorite **Swisshelm granodiorite** Marvin and Cole, 1978
Swisshelm Mtns. — Biotite date on different locality is 30.9 m.y. Swisshelm Mtns. quad., CH county (31° 41.00', 109° 34.00'). L-2, K%= 6.9, #74D151.

34.00 ± 0.00 ** # 915
KA/biot/quartz monzonite **New Cornelia stock** Rose and Cook, 1965
Little Ajo Mtns. -- Date probably represents cooling age on older pluton. Analytical data not published in abstract. Ajo quad., PM county (32° 22.00', 112° 52.50'). C-?.

34.20 ± 1.20 # 916
KA/biot/granodiorite **Emigrant Canyon stock** Drewes, 1982
Chiricahua Mtns. — Northern part, collected in Emigrant Canyon. No analytical data reported. Cochise Head quad., CH county (32° 7.18', 109° 21.37'). L-2, #DH82:3.

34.50 ± 1.50 # 917
KA/horn/andesite **Pat Hills andesite** Marvin and Cole, 1978
Sulphur Springs Valley — Pat Hills. Epidote-hornblende andesite. Pat Hills North quad., CH county (32°0.00', 109° 34.00'). L-2, K%= 0.5, *Ar=54, #74D161.

34.60 ± 1.20 ** # 918
KA/biot/schist **Rincon Mtns. schist** Marvin and others, 1973
Rincon Mtns. — Biotite date on same sample is 29.6 m.y. Happy Valley quad., PM county (32° 13.50', 110° 25.50'). L-2, K%= 7.9, *Ar=97, #M73:85.

34.70 ± 4.00 # 919
FT/apat/amphibolite xenolith **Garnet Ridge diatreme** Naeser, 1971
Chinle Valley -- Xenolith from pipe 2 of the Garnet Ridge kimberlite diatreme complex. Apatite age is concordant with apatites of other xenoliths and dates the cooling of the diatreme after its emplacement. Dennehotso quad., AP county (36° 55.60', 109° 46.90'). L-2, #GR2.

34.80 ± 0.50 # 920
KA/phlo/minette **Buell Park diatreme** Roden and others, 1979
Defiance Plateau — Buell Park, east side of Buell Mtn. Clast in dike of tuff breccia. Generalized lat-lon. Buell Park quad., AP county (35° 54.50', 109° 6.20'). L-H, K%= 8.2, *Ar=82, #BP75.

34.80 ± 1.00 # 921
KA/w.r./dacite porphyry dike **Dos Cabezas dike** Erickson, 1981
Dos Cabezas Mtns. — Leucocratic, aphanitic, dacite porphyry dike that crosscuts early Tertiary Mascot stock. K content too high for dacite. Dos Cabezas quad., CH county (32° 12.05', 109° 35.00'). L-1, K%= 4.9, *Ar=85, #RCE-636-65.

34.90 ± 0.30 # 922
KA/plag/granodiorite **La Tortuga Butte granodiorite** Bikerman, 1967
Roskruge Mtns. — Chlorite-plagioclase granodiorite. La Tortuga Butte quad., PM county (32° 9.27', 111° 26.60'). L-1, K%= 1.8, *Ar=41, #MB-09-64.

35.10 ± 1.20 ** # 923
KA/musc/quartz monzonite **Wrong Mtn. Quartz Monzonite** Marvin and others, 1978
Rincon Mtns. — Biotite date on same sample is 21.9 m.y. Piety Hill quad., PM county (32° 19.00', 110° 32.50'). L-2, K%= 8.3, *Ar=82, #M78:101.

35.20 ± 3.40 ** # 924
FT/apat/granodiorite **Granite Mtn. Porphyry** Banks and Stuckless, 1973
Ray area — Seriate porphyritic biotite granodiorite of Laramide age. Reduced age. Teapot Mtn. quad., PN county (33° 10.75', 111° 2.40'). L-2, #BAS:14.

35.60 ± 0.00 ** # 925
KA/mica/granodiorite **Gunsight Hills granodiorite** Tosdal and others, 1986
Gunsight Hills — Date on white mica from foliated syntectonic quartz vein is minimum age related to Tertiary uplift and cooling. No analytical data reported. Generalized lat-lon. Mt. Ajo quad., PM county (32° 8.13', 112° 39.50'). L-3, #T86:8.

35.90 ± 1.20 ** # 926
KA/w.r./phyllite **Sheridan Mtns. phyllite** Haxel and others, 1984
Sheridan Mtns. -- Southernmost area. Quartzofeldspathic phyllite derived from Mesozoic protolith. Gu Achi quad., PM county (32° 20.48', 112° 4.10'). L-3, K%= 2.5, *Ar=64, #PR 92.

36.00 ± 0.80 ** # 927
KA/musc/granite **San Xavier granite** Shafiqullah and Langlois, 1978
Sierrita Mtns. — San Xavier North Mine. Coarse-grained, weakly foliated muscovite granite from drill hole 25X-18. Granite directly underlies San Xavier fault in drill hole. Date represents cooling age on older pluton. San Xavier Mission quad., PM county (32° 1.66', 111° 4.70'). L-1, K%= 7.7, *Ar=92, #UAKA-78-63.

36.00 ± 3.60 # 928
KA/plag/andesite dike Turkey Track porphyry Erickson, 1981
Dos Cabezas Mtns. — WNW-trending dike of turkey track, plagioclase porphyry that has intruded Pinal Schist and Polecat quartz monzonite. Oldest mid-Tertiary rock in range. Railroad Pass quad., CH county (32° 17.36', 109° 41.18'). L-1, K%= 1.0, *Ar=21, #RCE-329-65.

36.10 ± 2.70 # 929
KA/horn/andesite Blue Range volcanics Damon and others, 1970
Blue Range area — Blue Range Wilderness Area. Pyroxene-hornblende andesite flow from Rousensock Creek near Red Mtn. Rose Peak quad., GN county (33° 25.00', 109° 18.00'). L-1, K%= 0.5, *Ar=24, #PED-09-69.

36.10 ± 1.20 ** # 930
KA/biot/andesite Turkey Canyon volcanics Goff and others, 1983
East Juniper Mtns. -- Andesite flow and cone (Juniper Cone). Date possibly too old. Unit appears to be relatively uneroded and is thought to be younger than F78-88 (22.4 m.y.). Multiple dates on same sample are erratic. Turkey Canyon NE quad., YA county (35° 8.00', 112° 52.00'). L-7, K%= 7.2, *Ar=41, #BA78-72.

36.50 ± 0.70 # 931
KA/biot/granite Gillespie granite Swan, 1976
Pinaleno Mtns. -- Stockton Pass. Stockton Pass quad., GM county (32° 34.00', 109° 46.50'). L-1, C-?, K%= 6.4, *Ar=90, #UAKA-73-147.

36.70 ± 2.00 ** # 932
KA/horn/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. -- Marble Peak area. Date attributed to Soderman (1979, written comm.). Date represents cooling age on upper Cretaceous pluton. Oracle quad., PM county (32° 27.00', 110° 43.00'). #K80:30.

36.80 ± 1.00 ** # 933
SR/musc/granite Wilderness granite Livingston and others, 1967
Santa Catalina Mtns. — Hitchcock Memorial area. Model age. A 30.20 m.y. K-Ar date was obtained from the same sample. Sri=0.7100 (assumed), 1 pt. Agua Caliente Hill quad., PM county (32° 22.10', 110° 43.00'). L-1, #PED-4A-58.

36.80 ± 1.00 ** # 934
KA/horn/mafic inclusion Catalina granite inclusion Creasey and others, 1977
Santa Catalina Mtns. -- Western part of range. Mafic inclusion in Catalina granite (quartz monzonite of Samaniego Ridge of Creasey and others, 1977). Oro Valley quad., PM county (32° 27.50', 110° 53.00'). L-3, K%= 0.9, *Ar=53, #ML-60.

36.90 ± 2.00 ** # 935
KA/biot/granodiorite Ruby Star Granodiorite (?) Marvin and others, 1973
Sierrita Mtns. — Sheared and altered granodiorite. Date represents reduced age on a Laramide pluton. Twin Buttes quad., PM county (31° 59.50', 111° 7.00'). L-2, K%= 6.0, *Ar=73, #M73:03.

37.60 ± 1.70 # 936
KA/sani/rhyolite ash-flow tuff Pantano Fm. Damon and Bikerman, 1964
Cienega Gap area — Near Davidson Canyon, southeast of Tucson. Biotite date from same sample is 33.6 m.y. See additional dates from other volcanic rocks in Pantano Fm. Mt. Fagan quad., PM county (31° 59.80', 110° 38.60'). L-1, K%= 8.3, *Ar=83, #PED-13-62.

37.70 ± 1.60 ** # 937
KA/musc/pegmatite Happy Valley pegmatite Marvin and others, 1973
Rincon Mtns. — Happy Valley. Pegmatite within Happy Valley granodiorite stock, which yields a 28.0 m.y. biotite age. Happy Valley quad., PM county (32° 12.00', 110° 27.00'). L-2, K%= 7.2, *Ar=58, #M73:83.

37.70 ± 0.80 ** # 938
KA/seri/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. — Generalized lat-lon. Analytical data not published. Mt. Lemmon (?) quad., PN county (32° 26.00', 110° 45.00'). L-1, #UAKA-78-66.

38.30 ± 3.90 # 939
KA/horn/andesite Blue Range volcanics Damon and others, 1969
Blue Range area — Top of hornblende andesite, which is the oldest exposed volcanic unit in the Blue Range. Ratte and others (1969) indicate that hornblende andesite cobbles occur in the red conglomerate unit that underlies most of the volcanic sequence Rose Peak quad., GN county (33° 23.82', 109° 20.05'). L-1, K%= 0.5, *Ar=18, #PED-33-67.

38.40 ± 0.60 ** # 940
KA/horn/quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. — Date attributed to Creasey (1979, written comm.). Possibly same sample as 27.1 m.y. biotite date. Generalized lat-lon. Analytical data not published. Bellota Ranch (?) quad., PM county (32° 30.00', 110° 40.00'). L-3, #K80:05.

39.00 ± 2.00 ** # 941
KA/biot/granitic gneiss **Yuma granitic gneiss** Eberly and Stanley, 1978
Yuma area — Fine-grained granitic gneiss, near Yuma. Gneiss is probably Precambrian. Additional biotite date on coarse-grained phase of gneiss is 60.5 m.y. Yuma East quad., YU county (32° 40.27', 114° 35.87'). L-B, K%= 6.9, *Ar=66, #ES:116.

39.10 ± 6.30 # 942
KA/biot/latite porphyry **Trigo Mtns. volcanics** Weaver, 1982
Trigo Mtns. -- Northernmost part of range. Hypabyssal dike cutting Precambrian basement terrane. Mule Wash quad., LP county (33° 23.03', 114° 32.07'). L-7, K%= 7.0, *Ar=14, #2189.

39.10 ± 1.20 ** # 943
KA/w.r./metasedimentary rock **Mesozoic metasedimentary rocks** Frost, written comm., 1986
Castle Dome Mtns. — Gray-green, fine-grained metasedimentary rocks. Sample collected 3 m below the Castle Dome Mtns. detachment (?) fault. Approximate lat-lon. Castle Dome Mtns. quad., YU county (33° 1.30', 114° 9.70'). L-7, K%= 3.3, *Ar=77, #CD-3.

39.20 ± 8.00 ** # 944
SR/musc/pegmatite **Canoa Ranch pegmatite** Livingston and others, 1967
Sierrita Mtns. — Model age. Pegmatite associated with the contact zone of the Ruby Star granodiorite. A K-Ar age of 52.2 m.y. was obtained from muscovite in this sample. Sri=0.7100 (assumed), 1 pt. Twin Buttes quad., PM county (31° 59.10', 111° 7.80'). L-1, #RM-09-63.

39.20 ± 1.80 ** # 945
KA/w.r./phyllite **Sheridan Mtns. phyllite** Haxel and others, 1984
Sheridan Mtns. — Southernmost area. Quartzofeldspathic phyllite derived from Mesozoic protolith. Gu Achi quad., PM county (32° 20.47', 112° 4.08'). L-3, K%= 1.6, *Ar=62, #PR-93.

39.40 ± 1.30 # 946
KA/biot/andesite **Rillito andesite** Bikerman and Damon, 1966
Tucson Mtns. — Northern part, near Safford Peak. Andesite contains large feldspar and biotite phenocrysts and is the oldest volcanic rock known in the northern Tucson Mtns. Originally reported by Damon and Bikerman (1964). Brown Mtn. quad., PM county (32° 14.57', 111° 8.36'). L-1, K%= 6.5, *Ar=71, #PED-09-63.

39.40 ± 3.00 ** # 947
KA/biot/granite **Oracle Granite** Damon and others, 1963a
Santa Catalina Mtns. -- South of Mogul fault. Date plotted on figure 2 of Damon and others (1963a) but no analytical data given. Cooling age on Precambrian pluton. Oracle quad., PN county (32° 35.00', 110° 50.00'). L-1, K%= 6.2, *Ar=67, #PED-27-57.

39.40 ± 0.90 # 948
KA/w.r./basaltic andesite **Geothermal Kinetics volcanics** Shafiqullah and others, 1980
Higley Basin — From 2720-2735 m in Geothermal Kinetics drill hole. If date represents age of volcanism, then this andesite is one of the oldest known post-Laramide volcanics in Arizona. Higley quad., MA county (33° 17.00', 111° 41.30'). L-1, K%= 2.0, *Ar=87, #UAKA-74-130.

39.80 ± 1.50 # 949
KA/biot/rhyolite tuff **Pantano Fm. (?)** Marvin and others, 1973
Babocomari River area — Northwest of Huachuca Mtns. Pyeatt Ranch quad., CH county (31° 37.00', 110° 25.00'). L-2, K%= 7.0, *Ar=87, #M73:71.

39.90 ± 1.20 ** # 950
KA/w.r./metasedimentary rock **Mesozoic metasedimentary rocks** Frost, written comm., 1986
Castle Dome Mtns. — Gray-green, fine-grained metasedimentary rocks. Sample collected 100 m below the Castle Dome Mtns. detachment (?) fault. Approximate lat-lon. Castle Dome Mtns. quad., YU county (33° 1.30', 114° 9.70'). L-7, K%= 2.6, *Ar=74, #CD-4.

40.10 ± 1.00 ** # 951
KA/biot/granodiorite **Mt. Ajo granodiorite** Shafiqullah and others, 1980
Little Ajo Mtns. — Pluton forms part of basement for mid-Tertiary volcanic rocks in the area south of Ajo. Date interpreted as reduced. Mt. Ajo quad., PM county (32° 8.00', 112° 37.70'). L-1, K%= 7.3, *Ar=86, #UAKA-72-39.

40.10 ± 0.00 ** # 952
KA/mica/granodiorite **Gunsight Hills granodiorite** Tosdal and others, 1986
Gunsight Hills — Date on white mica from foliated syntectonic quartz vein is a minimum age related to Tertiary uplift and cooling. No analytical data reported. Generalized lat-lon. Mt. Ajo quad., PM county (32° 8.13', 112° 39.50'). L-3, #T86:9.

40.90 ± 0.90 # 953
SR/min./granite **Presumido Peak granite** Arnold, 1986
Baboquivari Mtns. -- Peraluminous two-mica garnet-bearing granite. Epsilon Nd equals -12.2. This rock shares many of the characteristics of the Wilderness Granite of the Santa Catalina Mtns. Lat-lon given for sample PP-2. Sri=0.72136 +/- 0.00111, 5 pts Caponera Peak quad., PM county (31° 35.22', 111° 37.33'). L-1, #SEVERAL.

41.00 ± 2.00 ** # 954
KA/biot/quartz monzonite **Harris Ranch Monzonite** Marvin and others, 1973
Sierrita Mtns. — Date represents cooling age on Jurassic (?) pluton. Palo Alto Ranch quad., PM county (31° 56.00', 111° 16.00'). L-2, K%= 6.8, *Ar=81, #M73:13.

41.80 ± 1.00 ** # 955
KA/sani/vogesite **Dineh bi Keyah sill** Marvin and Dobson, 1979
Lukachukai Mtns. — Biotitic vogesite or diopsidic minette sill from 967 m, Kerr-McGee No. 2. Lukachukai quad., AP county (36° 28.50', 109° 9.33'). L-2, K%= 9.6, *Ar=91, #67-JDS-01B.

41.90 ± 1.60 ** # 956
KA/biot/ash-flow tuff **Patsy Mine Volcanics** Anderson and others, 1972
Black Mtns. — Northern part. Date is too old because volcanics are Miocene. Black Canyon quad., MO county (35° 46.62', 114° 36.05'). L-2, K%= 7.4, *Ar=87, #A72:46.

41.90 ± 0.09 ** # 957
KA/biot/granodiorite **Ruby Star Granodiorite** Shafiqullah and Langlois, 1978
Sierrita Mtns. — About 4 km WNW of Pima Mine. Age is interpreted as reduced age on older pluton. San Xavier Mission quad., PM county (32°0.09', 111° 6.87'). L-1, K%= 7.6, *Ar=87, #UAKA-76-45.

42.10 ± 1.00 ** # 958
KA/sani/vogesite **Dineh bi Keyah sill** Marvin and Dobson, 1979
Lukachukai Mtns. -- Biotitic vogesite or diopsidic minette sill from 967 m, Kerr-McGee No. 2. Sanidine dates on this sample are older than biotite dates, possibly due to excess argon. Lukachukai quad., AP county (36° 28.50', 109° 9.33'). L-2, K%= 9.6, *Ar=91, #67-JDS-01.

42.60 ± 1.20 ** # 959
KA/biot/andesite **Arrastra Mtn. volcanics** Gassaway, 1977
Date Creek Basin area — Andesite near base of older volcanic sequence, northwest of the Anderson Mine. Date is probably too old. Palmerita Ranch quad., MO county (34° 20.08', 113° 24.15'). L-7, C-?, K%= 4.0, *Ar=43, #KA-1237.

43.90 ± 1.70 ** # 960
KA/biot/granite **Oracle Granite (?)** Reif and Robinson, 1981
Florence area -- Medium- to coarse-grained granite located at 3028 m level in Phillips AZ State A-1 well. Picacho Reservoir quad., PN county (32° 51.00', 111° 17.50'). C-?, K%= 7.0, #RR:2.

44.10 ± 1.30 ** # 961
KA/biot/granite **Tank Pass granite** Shafiqullah and others, 1980
Harcuvar Mtns. — Undeformed biotite granite east of Tank Pass. Age is a cooling age on late Cretaceous pluton and associated metamorphism. Salome quad., LP county (33° 52.00', 113° 41.30'). L-1, K%= 7.1, *Ar=50, #HVR-2.

44.60 ± 1.50 # 962
PB/mona/granite **Wilderness granite** Shakel and others, 1977
Santa Catalina Mtns. — Lithology described as a "layered, two-mica gneiss." Approximate lat-lon. No analytical data reported. Mt. Lemmon quad., PM county (32° 22.00', 110° 45.00'). L-8, C-2.

44.60 ± 1.50 # 963
PB/mona/granite **Wilderness granite** Shakel and others, 1977
Santa Catalina Mtns. -- Samples from nearly unfoliated two-mica granite from roadcut near Hitchcock Picnic area. Approximate lat-lon. No analytical data reported. Agua Caliente Hill quad., PM county (32° 23.00', 110° 42.00'). L-8, C-2.

44.70 ± 3.30 ** # 964
KA/w.r./basalt **Chapin Wash Fm. (?)** Gassaway, 1977
Artillery Mtns. — Considered by Gassaway to be part of the Chapin Wash Fm. Date is probably too old. Artillery Peak quad., MO county (34° 21.87', 113° 35.84'). L-7, C-?, K%= 0.3, *Ar=21, #KA-1235.

45.10 ± 5.00 ** # 965
KA/w.r./basaltic andesite **Sperry Gyroscope volcanics** Eberly and Stanley, 1978
Union Hills area -- From 466-472 m in Sperry Gyroscope No. 1. Date is probably too old. Union Hills quad., MA county (33° 41.50', 112° 6.00'). L-B, K%= 4.0, *Ar=10, #ES:61.

45.80 ± 1.60 # 966
KA/musc/quartz monzonite **Wrong Mtn. Quartz Monzonite** Marvin and others, 1978
Rincon Mtns. -- Northern part of range. Pluton is considered to be early Tertiary. Bellota Ranch quad., PM county (32° 17.50', 110° 35.00'). L-2, K%= 7.7, *Ar=82, #M78:102.

46.00 ± 0.00 # 967
SR/w.r./granite **Wilderness granite** Keith and others, 1980
Santa Catalina-Rincon-Tortolita Mtns. — Reference isochron, including sample from Wrong Mtn. Granite. Generalized lat-lon. Sri=0.7110+/-0.0000, 10 pts. Agua Caliente Hill quad., PM county (32° 23.00', 110° 42.00'). L-1, #SEVERAL.

46.50 ± 10.40 ** # 968
KA/garn/granite **Wilderness granite** Keith and others, 1980
Santa Catalina Mtns. — Forerange. Emplacement age probably 44 to 50 M.Y. Sample analyzed to evaluate presence of excess argon. Generalized lat-lon. Analytical data and location not reported. Agua Caliente Hill (?) quad., PM county (32° 20.30', 110° 41.40'). L-1, #UAKA-71-21.

47.00 ± 1.00 ** # 969
KA/biot/granodiorite **Gunsight Hills granodiorite** Shafiqullah and others, 1980
Gunsight Hills — Papago Indian Reservation. Date is probably younger than emplacement age. Mt. Ajo quad., PM county (32° 9.30', 112° 39.30'). L-1, K%= 7.2, *Ar=86, #UAKA-72-63.

47.20 ± 2.00 ** # 970
KA/biot/granodiorite **Ruby Star Granodiorite** Marvin and others, 1973
Sierrita Mtns. — Granodiorite porphyry, considered to be latest Cretaceous to Paleocene in age. Twin Buttes quad., PM county (31° 58.00', 111° 6.00'). L-2, K%= 5.5, *Ar=42, #M73:04.

47.50 ± 1.40 ** # 971
KA/plag/andesite porphyry dike **Turkey Track porphyry** Percious, 1968
Del Bac Hills — Black Mtn. Northern dike. Age is anomalously old -- unit is regionally late Oligocene. San Xavier Mission quad., PM county (32° 5.25', 111° 3.50'). L-1, K%= 0.8, *Ar=52, #JKP-01-67.

47.50 ± 1.00 ** # 972
KA/biot/granite **Tank Pass granite** Shafiqullah and others, 1980
Harcuvar Mtns. -- East of Tank Pass. Date is cooling age on late Cretaceous pluton and associated metamorphism. Salome quad., LP county (33° 50.67', 113° 41.55'). L-1, K%= 6.6, *Ar=86, #UAKA-73-126.

47.70 ± 0.60 ** # 973
KA/w.r./granite **Exxon State 32-1 granite** Eberly and Stanley, 1978
Tucson Basin -- Exxon State (32)-1. Reported in article as 61 m.y., but GSA supplementary document indicates that this date was derived by assuming 30% argon loss due to elevated drill-hole temperatures. Date is a reduced age on an older rock. Tucson SE quad., PM county (32° 4.08', 110° 49.51'). L-1, K%= 2.9, *Ar=76, #ES:24.

47.80 ± 1.00 # 974
KA/seri/quartz vein **Reef Mine vein** Shafiqullah and others, 1980
Huachuca Mtns. — Reef Mine. Massive quartz vein in Bolsa Quartzite. Miller Peak quad., CH county (31° 25.60', 110° 17.30'). L-1, K%= 8.0, *Ar=98, #UAKA-75-115.

47.90 ± 2.20 # 975
KA/musc/pegmatite **Wilderness granite** Mauger and others, 1968
Santa Catalina Mtns. -- Near Summerhaven. Pegmatite in locally foliated Leatherwood quartz diorite. Date is probably close to emplacement age. Mt. Lemmon quad., PM county (32° 26.83', 110° 45.50'). L-1, K%= 6.9, *Ar=42, #PED-15-59.

48.00 ± 2.00 ** # 976
KA/biot/quartz latite tuff **S O Volcanics** Marvin and others, 1973
Dragoon Mtns. -- Southern end. Significance of date is uncertain. Corrected K content reported by Marvin and others (1978). Hay Mtn. quad., CH county (31° 44.00', 109° 53.00'). L-2, K%= 8.1, *Ar=75, #M73:92.

48.20 ± 2.00 ** # 977
KA/k-sp/alteration **Mission Mine alteration** Marvin and others, 1973
Sierrita Mtns. -- Mission Mine. Date on alteration is probably a reduced age. Twin Buttes quad., PM county (31° 59.58', 111° 4.00'). L-2, K%=13.3, *Ar=74, #M73:05.

48.20 ± 3.00 ** # 978
KA/k-sp/diorite **Esperanza diorite** Marvin and others, 1973
Sierrita Mtns. — Esperanza Mine. Altered and mineralized diorite from west end of mine. Probably a reduced age because older dates have been obtained from same rock unit. Twin Buttes quad., PM county (31° 52.00', 111° 7.00'). L-2, K%=12.4, *Ar=58, #M73:06.

48.30 ± 1.00 ** # 979
KA/horn/amphibolite **Estrella Gneiss** Reynolds, 1985
South Mtns. — Amphibolite within Precambrian Estrella Gneiss, which has been overprinted by early Miocene mylonitization. Date is hybrid age reflecting a multistage history of deformation and cooling. Also reported by Reynolds and others (1986). Lone Butte quad., MA county (33° 19.92', 112° 5.32'). L-1, K%= 0.6, *Ar=81, #UAKA-78-27.

48.80 ± 1.50 # 980
KA/w.r./basalt dike **Dos Cabezas dike** Erickson, 1981
Dos Cabezas Mtns. -- Massive, NNW-striking basalt dike cutting Pinal Schist and gneissic terrains. Luzena quad., CH county (32° 17.87', 109° 42.60'). L-1, K%= 1.7, *Ar=84, #RCE-657-65.

49.20 ± 2.80 ** # 981
KA/biot/tuff **Chapin Wash Fm. (?)** Eberly and Stanley, 1978
Buckskin Mtns. — Lincoln Ranch Basin. Crystal tuff intercalated with lake beds. Age is too old because tuff is probably late Oligocene or early Miocene. Ives Peak quad., LP county (34° 11.47', 113° 41.27'). L-B, K%= 1.9, *Ar=54, #ES:87.

49.50 ± 0.00 ** # 982
KA/biot/quartz monzonite **Texas Canyon Quartz Monzonite** Livingston and others, 1967
Little Dragoon Mtns. -- Date is probably reduced age because Rb-Sr mineral isochron from the same unit yields a 54.6 m.y. age. Corrected lat-lon from Marvin and others (1978). Dragoon quad., CH county (32° 3.67', 110° 4.50'). L-1, K%= 6.7, *Ar=27, #PED-11-60.

49.50 ± 1.90 ** # 983
KA/biot/porphyritic granite **Harquahala granite** Hardy, 1984
Harquahala Mtns. -- White Marble Mine area. Proterozoic porphyritic granite with moderately developed mylonitic fabric probably related to the Harquahala thrust. Date provides minimum age on thrusting. Sample collected 60 m below Harquahala thrust z Gladden quad., LP county (33° 47.99', 113° 25.04'). L-5, K%= 7.9, *Ar= 69, #83-11-8-1.

49.60 ± 0.00 ** # 984
KA/musc/quartz monzonite **Texas Canyon Quartz Monzonite** Livingston and others, 1967
Little Dragoon Mtns. -- Probably a reduced age because Rb-Sr mineral isochron from the same unit yields an age of 54.6 m.y. Corrected sample location from Marvin and others (1978). Dragoon quad., CH county (32° 3.67', 110° 4.50'). L-1, K%= 6.7, *Ar=27, #PED-11-60.

49.80 ± 0.70 ** # 985
KA/biot/granite **Sacaton Peak granite** Balla, 1972
Sacaton Mtns. — Date is from core facies of pluton and is younger than dates on other phases of pluton. Average of two dates from the same sample. Casa Grande East quad., PN county (32° 59.08', 111° 41.12'). L-6, K%= 6.1, *Ar=59, #KA-71-42.

49.90 ± 1.00 ** # 986
KA/biot/granite **Ruby Star Granodiorite** Shafiqullah and Langlois, 1978
Sierrita Mtns. -- Pima Mine. Medium- to coarse-grained granite from drill hole A180. Sample taken 152 m below San Xavier fault surface and is weakly propylitized. Date interpreted as reduced age on older pluton. Twin Buttes quad., PM county (31° 59.20', 111° 4.20'). L-1, K%= 7.4, *Ar=92, #UAKA-75-116.

50.00 ± 0.00 ** # 987
PB/zirc/gneissic granite **Wilderness granite** Catanzaro and Kulp, 1964
Santa Catalina Mtns. -- Windy Point. Gneissic, mylonitic granite of early Tertiary age. When plotted on a concordia diagram this data yields a lower intercept of 50 m.y. and an upper intercept of 1660 m.y.; see Keith and others (1980) for discussion. Agua Caliente Hill quad., PM county (32° 22.10', 110° 43.00'). L-A, C-2, #100.
PB/PB = 1362.0 ± 30.0 238U/PB = 198.0 ± 6.0 235U/PB = 327.0 ± 10.0 TH/PB = 0.0 ± 0.0

50.30 ± 0.40 # 988
SR/musc/granite **Sunset Pass two-mica granite** Rehrig, 1981
Harquahala Mtns. -- Sunset Pass two-mica pluton. Reported age is whole rock-muscovite isochron. An isochron constructed from whole rock data only yields an age of 53 m.y. Sri=0.7119+/- 0.00001, 3 pts. Gladden quad., LP county (33° 50.76', 113° 20.52'). L-F, #17-1 TO 17-3.

50.30 ± 0.00 ** # 989
KA/biot/granite **Oracle Granite** Damon and others, 1963a
Santa Catalina Mtns. — North end of range. Coarse-grained, sheared granite along Mogul fault. Date is reduced age of uncertain significance. Analytical data and location not reported. Oracle quad., PN county (32° 35.00', 110° 50.00'). L-1, #PED-01-58.

50.30 ± 1.50 ** # 990
KA/biot/granite **Dos Cabezas granite** Erickson, 1981
Dos Cabezas Mtns. -- Precambrian rapakivi quartz monzonite. Date reflects Laramide reheating. Dos Cabezas quad., CH county (32° 10.33', 109° 38.17'). L-1, K%= 5.7, *Ar=84, #RCE-829-65.

50.80 ± 1.10 ** # 991
KA/w.r./basaltic andesite **Roadside Fm.** Shafiqullah and others, 1980
Roskruge Mtns. — Dark-gray, basaltic andesite that overlies a Laramide andesite flow. Sample is partly propylitized, and age is probably too young. San Vicente quad., PM county (32° 2.17', 111° 31.33'). L-1, K%= 1.9, *Ar=88, #UAKA-77-60.

50.90 ± 0.00 ** # 992
KA/biot/quartz monzonite Texas Canyon Quartz Monzonite Livingston and others, 1967
Little Dragoon Mtns. — Date is reduced because Rb-Sr mineral isochron from the same unit yields a 54.6 m.y. age. Corrected lat-lon from Marvin and others (1978). Dragoon quad., CH county (32° 3.67', 110° 4.50'). L-1, K%= 7.0, *Ar=72, #PED-06-64.

51.00 ± 1.10 ** # 993
KA/biot/granite Tank Pass granite Shafiqullah and others, 1980
Harcuvar Mtns. — Date is cooling age on late Cretaceous pluton and associated metamorphism. Salome quad., LP county (33° 53.10', 113° 37.80'). L-1, K%= 7.2, *Ar=87, #UAKA-77-65.

51.10 ± 3.00 ** # 994
KA/biot/quartz monzonite Texas Canyon Quartz Monzonite Marvin and others, 1973
Little Dragoon Mtns. — Age is reduced. Rb-Sr mineral isochron yields an age of 54.6 m.y. Dragoon quad., CH county (32° 6.00', 110° 5.00'). L-2, K%= 7.6, *Ar=90, #M73:88.

51.40 ± 1.20 ** # 995
KA/biot/granodiorite Ruby Star Granodiorite Shafiqullah and Langlois, 1978
Sierrita Mtns. — Date is interpreted as reduced age on older pluton, possibly due to nearby muscovite-beryl pegmatite. Twin Buttes quad., PM county (31° 52.33', 111° 8.07'). L-1, K%= 7.7, *Ar=78, #UAKA-76-46.

51.70 ± 0.80 ** # 996
FT/apat/granite Superstition granite Stuckless and Naeser, 1972
Superstition Mtns. — Likely Ruin Granite correlative containing large phenocrysts of orthoclase. Age discordant with sphene age and reflects cooling of rocks after Laramide uplift and erosion. Pinyon Mtn. quad., MA county (33° 32.50', 111° 14.58'). L-2, #AP202.

51.70 ± 0.00 ** # 997
KA/biot/quartz monzonite Texas Canyon Quartz Monzonite Livingston and others, 1967
Little Dragoon Mtns. — Date is reduced because Rb-Sr mineral isochron from the same unit yields a 54.6 m.y. age. Corrected lat-lon from Marvin and others (1978). Dragoon quad., CH county (32° 3.67', 110° 4.50'). L-1, K%= 7.8, *Ar=60, #PED-06-64.

52.00 ± 0.00 ** # 998
PB/gale/mineralization Golden Turkey vein Mauger and others, 1965
Bradshaw Mtns. — Golden Turkey Mine, near Cordes Junction. Discordant vein of either early or middle Tertiary age. Data probably reflect some component of Proterozoic lead in the galena. 207Pb/206Pb model age. Cleator quad., YA county (34° 16.10', 112° 12.12'). L-1, C-2, #PED-1-60.

52.20 ± 1.20 ** # 999
KA/biot/biotite schist Rawhide Mtns. gneiss Shafiqullah and others, 1980
Rawhide Mtns. -- From mylonitic(?) banded gneiss 1.6 km south of McGuffey Cabin in Mississippi Wash. Significance of date is uncertain. Hornblende date from same sample is 57.6 m.y. Artillery Peak quad., MO county (34° 15.00', 113° 41.00'). L-1, K%= 5.9, *Ar=59, #UAKA-75-61.

52.20 ± 1.10 # 1000
KA/musc/pegmatite Canoa Ranch pegmatite Shafiqullah and Langlois, 1978
Sierrita Mtns. — Albite-muscovite-quartz-beryl pegmatite that has intruded Ruby Star Granodiorite. Originally reported by Livingston and others (1967) and Mauger (1966). Twin Buttes quad., PM county (31° 59.10', 111° 7.80'). L-1, K%= 9.0, *Ar=97, #RM-09-63.

52.30 ± 3.30 ** # 1001
KA/w.r./basalt Isabel No. 1 basalt Eberly and Stanley, 1978
Luke Basin — From 586-610 m in G. D. Isabel No. 1. Date is too old because basalt is probably late Oligocene or early Miocene. Calderwood Butte quad., MA county (33° 39.40', 112° 15.20'). L-B, K%= 1.2, *Ar=58, #ES:60.

52.30 ± 1.60 ** # 1002
KA/biot/gneiss Rough Mtn. gneiss Erickson, 1981
Dos Cabezas Mtns. — Date represents reheating of Precambrian gneiss by Laramide plutonic activity. Luzena quad., CH county (32° 16.75', 109° 33.25'). L-1, K%= 7.7, *Ar=76, #RCE-853-66.

52.50 ± 3.20 ** # 1003
FT/zirc/quartz monzonite Silver Bell porphyry Banks and others, 1978a
Silver Bell Mtns. — Porphyritic quartz monzonite-granodiorite. Reduced age. Vaca Hills quad., PM county (32° 23.87', 111° 31.77'). L-2, #VHNE-168N.

52.50 ± 1.30 # 1004
KA/biot/granite Gunnery Range granite Shafiqullah and others, 1980
Cabeza Prieta Mtns. — Coarse-grained, leucocratic granite. Cabeza Prieta Peak quad., YU county (32° 18.32', 113° 49.12'). L-1, K%= 7.5, *Ar=89, #UAKA-75-99.

52.60 ± 1.90 # 1005
KA/seri/breccia **Candelaria breccia pipe** Bennett, 1975
Morenci area -- Hypogene sericite from quartz-sericite matrix within breccia pipe. Generalized lat-lon. Clifton quad., GN county (33° 2.80', 109° 24.20'). L-5, K%= 7.4, *Ar=43, #B-5.

52.80 ± 1.10 ** # 1006
KA/biot/diorite **Eagletail Mtns. diorite** Shafiqullah and others, 1980
Eagletail Mtns. -- Northeastern flank. Medium-grained diorite that intrudes a metasedimentary sequence and is overlain by mid-Tertiary conglomerate and volcanics. Rock is somewhat altered and the biotite is partially chloritized. Eagletail Mtns. quad., LP county (33° 28.00', 113° 22.83'). L-1, K%= 5.2, *Ar=75, #UAKA-73-125.

53.00 ± 0.40 # 1007
SR/w.r./granite **Sunset Pass two-mica granite** Rehrig, 1981
Harquahala Mtns. -- Sunset Pass two-mica pluton. A mineral isochron from the same unit yields an age of 50.3 m.y. Sri=0.71186=/-0.00001, 2 pts. Gladden quad., LP county (33° 50.76', 113° 20.52'). L-F, #17-2, 17-3.

53.00 ± 0.00 # 1008
KA/seri/alteration **Lone Star alteration** Rose and Cook, 1965
Gila Mtns. -- Lone Star district, near Safford. Hydrothermal sericite from Lone Star ore body. Analytical data and location not published in abstract. Safford quad., GM county (32° 55.00', 109° 36.00'). C-?.

53.20 ± 1.60 ** # 1009
KA/biot/granite **Dos Cabezas granite** Erickson, 1981
Dos Cabezas Mtns. -- Precambrian (1352 m.y. Rb-Sr age) rapakivi pluton that has been reset by Laramide plutonism. Date also reported in Damon and others (1964), who referred to pluton as Rattlesnake Point granite. Dos Cabezas quad., CH county (32° 10.32', 109° 37.03'). L-1, K%= 6.3, *Ar=85, #PED-25-61.

53.30 ± 1.60 # 1010
KA/biot/quartz monzonite **Lone Star quartz monzonite** Damon and others, 1969
Gila Mtns. -- Lone Star district, near Safford. Sample is from 1067 m in Kennecott drill hole SD-7A. Safford quad., GM county (32° 56.30', 109° 36.50'). L-1, K%= 7.3, *Ar=88, #PED-35-67.

53.30 ± 3.00 # 1011
KA/biot/quartz monzonite **Texas Canyon Quartz Monzonite** Marvin and others, 1973
Little Dragoon Mtns. -- Rb-Sr mineral isochron from the same unit yields an age of 54.6 m.y. Dragoon quad., CH county (32° 6.00', 110° 5.00'). L-2, K%= 7.2, *Ar=86, #M73:88.

53.30 ± 2.00 # 1012
KA/biot/granodiorite **Helvetia granodiorite** Marvin and others, 1973
Santa Rita Mtns. -- Northern part. Sample 66D51. Sahuarita quad., PM county (31° 50.25', 110° 48.42'). L-2, K%= 5.9, *Ar=88, #M73:21.

53.40 ± 0.30 # 1013
SR/w.r./granite **Gunnery Range granite** Arnold, 1986
Tule Mtns. -- Peraluminous two-mica granite. Epsilon Nd values range from -12.60 to -11.80. Lat-lon given for sample GR-10. Sri=0.70698 +/- 0.00002, 10 points. Tule Mtns. quad., YU county (32° 14.39', 113° 47.62'). L-1, #SEVERAL.

53.60 ± 0.00 # 1014
KA/musc/quartz monzonite **Texas Canyon Quartz Monzonite** Livingston and others, 1967
Little Dragoon Mtns. -- Rb-Sr mineral isochron yields an age of 54.6 m.y. Corrected lat-lon from Marvin and others (1978). Dragoon quad., CH county (32° 3.67', 110° 4.50'). L-1, K%= 8.8, *Ar=75, #PED-06-64.

53.70 ± 0.20 # 1015
SR/min./granite **Gunnery Range granite** Arnold, 1986
Tule Mtns. -- Peraluminous two-mica granite. Isochron constructed from whole-rock and muscovite and biotite separate data points. Epsilon Nd values range from -12.60 to -11.80. Lat-lon given for sample GR-10. Sri=0.70694 +/- 0.00003, 12 points. Tule Mtns. quad., YU county (32° 14.39', 113° 47.62'). L-1, #SEVERAL.

53.70 ± 1.60 ** # 1016
KA/plag/lithic tuff **Dos Cabezas lithic tuff** Erickson, 1981
Dos Cabezas Mtns. -- Lithic tuff refered to as intrusive breccia by Erickson (1981). Breccia is crosscut 3 km east of sample site by early Paleocene Silver Camp stock. Date is somewhat too young. Dos Cabezas quad., CH county (32° 14.72', 109° 41.02'). L-1, K%= 1.7, *Ar=88, #RCE-851-66.

54.50 ± 2.00 # 1017
KA/biot/ultramylonite Quitobaquito mylonite Haxel and others, 1984
Quitobaquito Hills — North-central area. Ultramylonite derived from granite porphyry of lower plate. Agua Dulce Mtns. quad., PM county (32°0.02', 113° 3.35'). L-3, K%= 3.2, *Ar=81, #OP-799B.

54.56 ± 1.17 # 1018
KA/w.r./latite boulder Rim Gravel Peirce and others, 1979
Apache Segment -- Mogollon Rim. Clast in Rim Gravel, Round Top Mtn. Round Top Mtn. quad., GI county (33° 56.01', 110°0.57'). L-1, K%= 4.8, *Ar=89, #UAKA-76-106.

54.60 ± 0.20 # 1019
SR/min./granite Texas Canyon Quartz Monzonite Arnold, 1986
Little Dragoon Mtns. -- Peraluminous two-mica grainte. Isochron constructed from whole-rock and muscovite and biotite separates. Epsilon Nd equqls -9.80. Lat-lon given for sample TC-12. Sri=0.71006 +/- 0.00006, 7 points. Dragoon quad., CH county (32° 2.59', 110° 5.67'). L-1, #TC5,11,12,13.

54.70 ± 1.90 # 1020
KA/biot/quartz monzonite Twin Buttes quartz monzonite Damon and Mauger, 1966
Sierrita Mtns. -- Twin Butte Mine. Twin Buttes quad., PM county (31° 55.00', 111° 2.00'). L-1, K%= 7.7, *Ar=71, #RM-03-64.

54.80 ± 2.00 # 1021
KA/biot/granodiorite Helvetia granodiorite Marvin and others, 1973
Santa Rita Mtns. — Northern part. Sample 66D51. Sahuarita quad., PM county (31° 50.25', 110° 48.42'). L-2, K%= 5.9, *Ar=90, #M73:21.

54.80 ± 3.30 # 1022
KA/biot/schist Trigo Mtns. metamorphics Weaver, 1982
Trigo Mtns. -- Southwestern region of range. Coarse-grained quartzofeldspathic biotite schist. Picacho NW quad., LP county (33° 9.20', 114° 39.95'). L-7, K%= 7.5, *Ar=28, #2166.

54.90 ± 2.00 # 1023
KA/mica/ultramylonite Quitobaquito mylonite Haxel and others, 1984
Quitobaquito Hills -- North-central area. Ultramylonite derived from Jurassic quartz porphyry of lower plate. Agua Dulce Mtns. quad., PM county (32°0.15', 113° 3.47'). L-3, K%= 6.3, *Ar=85, #OP-799.

55.00 ± 4.20 ** # 1024
FT/apat/granodiorite Continental Granodiorite Marvin and Cole, 1978
Rincon Mtns. — Tanque Verde area. Coarse-grained porphyritic 1,400-m.y.-old rock and its mylonitic equivalents within the Rincon Mtns. Partially reset age due to thermal annealing related to early and middle Tertiary events. Tanque Verde Peak quad., PM county (32° 12.00', 110° 44.00'). L-2, #74D57.

55.00 ± 1.20 ** # 1025
KA/biot/granite Tank Pass granite Shafiqullah and others, 1980
Granite Wash Mtns. — Northern part. Date is cooling age on late Cretaceous pluton. Utting quad., LP county (33° 51.20', 113° 45.10'). L-1, K%= 7.2, *Ar=79, #UAKA-77-63.

55.00 ± 1.70 # 1026
KA/mica/ultramylonite Quitobaquito mylonite Haxel and others, 1984
Quitobaquito Hills — North-central area. Ultramylonite derived from Jurassic quartz porphyry of lower plate. Agua Dulce Mtns. quad., PM county (32°0.15', 113° 3.47'). L-3, K%= 6.3, *Ar=77, #OP-799.

55.20 ± 2.00 # 1027
KA/biot/quartz latite porphyry Helvetia quartz latite Marvin and others, 1973
Santa Rita Mtns. -- Sample 66D1612. Sahuarita quad., PM county (31° 52.52', 110° 47.33'). L-2, K%= 7.3, *Ar=95, #M73:22.

55.40 ± 0.00 # 1028
KA/musc/quartz monzonite Texas Canyon Quartz Monzonite Livingston and others, 1967
Little Dragoon Mtns. -- Biotite K-Ar dates are slightly younger on same and other samples. Rb-Sr mineral isochron for the same unit yields an age of 54.6 m.y. Corrected lat-lon from Marvin and others (1973). Happy Valley quad., CH county (32° 3.67', 110° 4.50'). L-1, K%= 8.8, *Ar=78, #PED-11-60.

55.70 ± 5.10 ** # 1029
FT/zirc/granite El Tiro biotite granite Banks and others, 1978a
Silver Bell Mtns. — Leucocratic quartz monzonite of Laramide age. Reduced age. Rock unit formerly known as Silver Bell alaskite, it yields a 72.8 m.y. U-Pb zircon age. Vaca Hills quad., PM county (32° 24.59', 111° 33.00'). L-2, #VHNE-169N.

55.70 ± 0.70 # 1030
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area -- West of Miami. Porphyry phase. Inspiration quad., GI county (33° 24.30', 110° 53.37'). L-3, K%= 8.1, *Ar=64, #C80:13.

55.80 ± 1.40 # 1031
KA/biot/granite Schultze Granite (?) Shafiqullah and others, 1980
Globe-Miami area -- Barren granite that has intruded mineralized Pinal Schist, from 320 m in drill hole. County listed in original reference is incorrect. Globe quad., GI county (33° 24.30', 110° 52.00'). L-1, K%= 7.7, *Ar=82, #UAKA-69-10.

55.80 ± 1.10 # 1032
KA/ /andesite Florence andesite dike Nason and others, 1982
Florence area -- Unmineralized andesite dike from near the Poston Butte porphyry copper ore body. Lab, material dated, exact location, and analytical data not published. Florence quad., PN county (33° 3.50', 111° 25.00'). #N82:2.

56.10 ± 2.00 ** # 1033
KA/plag/rhyolite Buckskin Mtns. rhyolite Davis and others, 1982
Buckskin Mtns. -- Western part, north of Osborne Wash. Flow in Mesozoic clastic sequence. Date represents cooling age after earlier metamorphism. Either lat-lon in Calzia and Morton (1980) or location description in Davis and others is in error. Cross Roads quad., LP county (34° 9.33', 114° 11.00'). L-7, K%= 3.6, *Ar=76, #1887.

56.10 ± 2.10 ** # 1034
KA/biot/mylonitic schist Harquahala thrust zone Hardy, 1984
Harquahala Mtns. -- White Marble Mine. Mylonitic schist derived from metamorphic or igneous protolith within Harquahala thrust zone, 5 m above thrust. Date provides minimum age on thrusting. Gladden quad., LP county (33° 47.44', 113° 24.88'). L-5, K%= 7.5, *Ar= 67, #83-11-8-5.

56.40 ± 3.00 ** # 1035
KA/biot/granite Sierrita Granite Marvin and others, 1973
Sierrita Mtns. -- Alkali granite. Date appears to be a reduced age on older pluton. Sample T169. Twin Buttes quad., PM county (31° 54.00', 111° 11.50'). L-2, K%= 5.3, *Ar=79, #M73:11.

56.50 ± 1.70 # 1036
KA/biot/monzonite Morenci stock McDowell, 1971
Morenci area -- Coarse, equigranular monzonite west of open pit. Separate contained 5 percent chlorite. Clifton quad., GN county (33° 5.50', 109° 23.00'). L-A, K%= 6.3, *Ar=86, #L-976.

56.50 ± 2.30 # 1037
KA/feld/felsic dike Salome dike Kress and others, 1985
Little Harquahala Mtns. -- Northern part, near Granite Wash Pass. Salome quad., LP county (33° 49.10', 113° 44.20'). L-5, K%= 2.7, *Ar=64, #AWL-7-83.

56.60 ± 0.60 ** # 1038
KA/biot/granodiorite Willow Spring Granodiorite Creasey, 1980
Globe-Miami area -- Near Pinto Valley Mine. Date is reduced age on Precambrian pluton. Inspiration quad., GI county (33° 23.80', 110° 57.15'). L-3, K%= 6.6, *Ar=67, #C80:46.

56.70 ± 2.80 ** # 1039
KA/biot/dacitic ash-flow tuff Silver Bell dacite Mauger and others, 1965
Silver Bell Mtns. -- Date is probably reduced, because dacite is intruded by quartz monzonite with dates as old as 67 m.y. Silver Bell Peak quad., PM county (32° 24.70', 111° 28.80'). L-1, K%= 4.4, *Ar=50, #RM-03-63.

56.70 ± 1.20 # 1040
KA/seri/vein Pima Mine mineralization Shafiqullah and Langlois, 1978
Sierrita Mtns. -- Pima Mine. Quartz-sericite-pyrite vein that cuts quartz monzonite porphyry at 826 m bench. Twin Buttes quad., PM county (31° 59.25', 111° 4.48'). L-1, K%= 8.4, *Ar=95, #UAKA-75-118.

56.79 ± 1.19 # 1041
KA/w.r./andesite boulder Rim Gravel Peirce and others, 1979
Apache Segment -- Mogollon Rim. Clast in Rim Gravel, Round Top Mtn. Round Top Mtn. quad., GI county (33° 56.01', 110°0.57'). L-1, K%= 2.8, *Ar=91, #UAKA-76-106.

56.90 ± 2.40 ** # 1042
KA/biot/granodiorite Continental Granodiorite Marvin and others, 1973
Santa Rita Mtns. -- Porphyroblastic granodiorite that contains recrystallized biotite. Date represents reduced age on Precambrian pluton. Sample 66D46. Sahuarita quad., PM county (31° 47.92', 110° 48.50'). L-2, K%= 7.3, *Ar=92, #M73:48.

56.90 ± 0.70 # 1043
KA/biot/vein Globe-Miami vein Creasey, 1980
Globe-Miami area — Southeast of Cactus Mine. Vein in unaltered Schultze Granite. Pinal Ranch quad., GI county (33° 21.60', 110° 56.90'). L-3, K%= 7.4, *Ar=67, #C80:33.

56.90 ± 1.80 # 1044
KA/biot/granite Trigo Mtns. granite Weaver, 1982
Trigo Mtns. -- Southern end of range. Picacho quad., LP county (33° 4.40', 114° 33.48'). L-7, K%= 7.2, *Ar=48, #2192.

57.00 ± 2.30 # 1045
KA/biot/quartz latite porphyry Helvetia quartz latite Marvin and others, 1973
Santa Rita Mtns. — Northern part of range. Sample 68D1472. Sahuarita quad., PM county (31° 46.00', 110° 46.75'). L-2, K%= 6.0, *Ar=89, #M73:23.

57.10 ± 2.10 # 1046
KA/biot/quartz latite porphyry Helvetia quartz latite Marvin and others, 1973
Santa Rita Mtns. — Northern part of range. Sample 66D185. Sahuarita quad., PM county (31° 51.25', 110° 45.50'). L-2, K%= 6.6, *Ar=94, #M73:24.

57.20 ± 1.70 # 1047
KA/biot/quartz diorite Maverick stock Erickson, 1981
Dos Cabezas Mtns. — Mesocratic, porphyritic quartz diorite. Luzena quad., CH county (32° 17.63', 109° 37.13'). L-1, K%= 7.5, *Ar=87, #RCE-655-65.

57.40 ± 2.10 # 1048
KA/biot/granite porphyry Morenci stock Bennett, 1975
Morenci area -- Older granite porphyry that is wall rock of the Candelaria breccia pipe and intrudes quartz monzonite porphyry. It is intruded by younger granite porphyry that forms the matrix of Metcalf and King breccia pipes. Generalized lat-lon. Clifton quad., GN county (33° 2.80', 109° 24.20'). L-5, K%= 5.3, *Ar=56, #B-6.

57.40 ± 2.00 # 1049
KA/biot/quartz monzonite porphyry Pima Mine porphyry Marvin and others, 1973
Sierrita Mtns. — Pima District. Originally reported, in part, by Creasey and Kistler (1962). Twin Buttes quad., PM county (31° 52.50', 111° 7.75'). L-9, K%= 5.0, *Ar=89, #M73:07.

57.40 ± 2.00 # 1050
KA/biot/rhyolite tuff Pima District tuff Marvin and others, 1973
Sierrita Mtns. — Pima distict. Date originally reported, in part, by Creasey and Kistler (1962). Twin Buttes quad., PM county (31° 57.50', 111° 4.50'). L-9, K%= 5.9, *Ar=92, #M73:08.

57.50 ± 2.00 # 1051
KA/k-sp/vein Esperanza diorite (?) Marvin and others, 1973
Sierrita Mtns. — About 2.6 km WNW of Esperanza Mine. Coarse biotite veinlets in diorite at copper prospect. Sample T137. Twin Buttes quad., PM county (31° 53.00', 111° 9.00'). L-2, K%= 2.9, *Ar=51, #M73:09.

57.50 ± 2.00 ** # 1052
KA/w.r./granite Cienega District granite Calzia and Morton, 1980
Buckskin Mtns. -- Western part. Date attributed to Barry (1979). Significance of date is uncertain. Cross Roads quad., LP county (34° 12.58', 114° 8.50'). L-7, #1879.

57.60 ± 2.10 # 1053
KA/biot/quartz latite porphyry Helvetia quartz latite Marvin and others, 1973
Santa Rita Mtns. — Sample 67D245. Sahuarita quad., PM county (31° 51.75', 110° 47.00'). L-2, K%= 7.0, *Ar=87, #M73:25.

57.60 ± 1.20 ** # 1054
KA/horn/gneiss Rawhide Mtns. gneiss Shafiqullah and others, 1980
Rawhide Mtns. — Hornblende-plagioclase orthogneiss about one mile south of McGuffey Cabin, Mississippi Wash. Significance of date is uncertain. Biotite date from same sample is 52.2 m.y. Artillery Peak quad., MO county (34° 15.00', 113° 41.00'). L-1, K%= 1.2, *Ar=87, #UAKA-75-61.

57.90 ± 0.70 # 1055
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area -- South of Inspiration Mine. Inspiration quad., GI county (33° 23.70', 110° 54.00'). L-3, K%= 7.8, *Ar=73, #C80:10.

58.00 ± 2.00 # 1056
PB/zirc/granite Pan Tak Granite Wright and Haxel, 1982
Coyote Mtns. — Two mica granite. Zircon populaton consists of five size fractions, including small, euhedral and larger, rounded crystals. Concordia diagram includes one sample (PUP 15) from Gu Chuapo Granite. Upper intercept approximately 1100 Ma. Pan Tak quad., PM county (32°0.30', 111° 33.05'). L-3, #PUP 14.

58.00 ± 1.20 # 1057
KA/k-sp/quartz monzonite porphyry San Xavier porphyry Shafiqullah and Langlois, 1978
Sierrita Mtns. — San Xavier North Mine. Altered and mineralized quartz monzonite porphyry from 138 to 166 m in drill hole ISX-18. San Xavier Mission quad., PM county (32° 1.61', 111° 4.78'). L-1, K%= 7.9, *Ar=95, #UAKA-78-64.

58.00 ± 0.00 # 1058
KA/biot/quartz diorite Lone Star quartz diorite Rose and Cook, 1965
Gila Mtns. -- Lone Star district, near Safford. Location and analytical data not published. Safford quad., GM county (32° 55.00', 109° 36.00'). C-?.

58.00 ± 0.00 # 1059
KA/biot/quartz monzonite porphyry Lone Star porphyry Rose and Cook, 1965
Gila Mtns. — Lone Star district, near Safford. Location and analytical data not published. Safford quad., GM county (32° 55.00', 109° 36.00'). C-?.

58.10 ± 1.70 # 1060
KA/biot/andesite Shorts Ranch Andesite Bikerman and Damon, 1966
Tucson Mtns. — Conformably overlies Ivy May andesite. Cat Mtn. quad., PM county (32° 12.43', 111°0.63'). L-1, K%= 6.8, *Ar=85, #PED-15-62.

58.30 ± 2.20 # 1061
KA/w.r./ultramylonite Quitobaquito mylonite Haxel and others, 1984
Quitobaquito Hills — North-central area. Ultramylonite derived from granite porphyry of lower plate. Quitobaquito Springs quad., PM county (31° 59.95', 113° 3.23'). L-3, K%= 1.9, *Ar=70, #OP-799E.

58.30 ± 1.90 # 1062
KA/w.r./ultramylonite Quitobaquito mylonite Haxel and others, 1984
Quitobaquito Hills — North-central area. Ultramylonite derived from granite porphyry of lower plate. Quitobaquito Springs quad., PM county (31° 59.95', 113° 3.23'). L-3, K%= 1.9, *Ar=81, #OP-799E.

58.40 ± 2.20 ** # 1063
KA/biot/gneiss Harquahala Mtns. gneiss Hardy, 1984
Harquahala Mtns. -- White Marble Mine area. Proterozoic amphibolite gneiss with superimposed mylonitic fabric related to Harquahala thrust. Date provides minimum age of thrusting. Sample collected 10 m above thrust. Gladden quad., LP county (33° 47.15', 113° 24.47'). L-5, K%= 7.9, *Ar= 78, #83-11-8-2.

58.60 ± 0.70 ** # 1064
KA/biot/quartz monzonite Lost Gulch Quartz Monzonite Creasey, 1980
Globe-Miami area — Near Pinto Valley Mine. Date is reduced age on Precambrian pluton. Inspiration quad., GI county (33° 24.42', 110° 57.77'). L-3, K%= 7.2, *Ar=74, #C80:22.

58.60 ± 1.40 # 1065
KA/w.r./rhyolite porphyry Twin Peaks porphyry Shafiqullah and others, 1980
Tucson Mtns. -- Twin Peaks, north end of Tucson Mtns. Sample from south of the Arizona Portland Cement quarry, Busterville. Flows underlie rhyolite breccia and consolidated sedimentary rocks. Avra quad., PM county (32° 19.50', 111° 10.80'). L-1, K%= 4.1, *Ar=85, #UAKA-73-86.

58.60 ± 2.20 # 1066
KA/biot/ultramylonite Quitobaquito mylonite Haxel and others, 1984
Quitobaquito Hills — North-central area. Ultramylonite derived from porphyritic granite of lower plate. Agua Dulce Mtns. quad., PM county (32°0.12', 113° 3.35'). L-3, K%= 2.7, *Ar=66, #OP-799A.

58.80 ± 2.00 ** # 1067
KA/biot/dacitic ash-flow tuff Silver Bell dacite Mauger and others, 1965
Silver Bell Mtns. — Near Oxide pit. Date represents reduced age, because dacite is intruded by quartz monzonite with dates as old as 67 m.y. Also reported by Damon and others (1964). Vaca Hills quad., PM county (32° 24.12', 111° 30.22'). L-1, K%= 6.4, *Ar=69, #PED-23-59.

58.90 ± 1.70 # 1068
KA/biot/granite Schultze Granite McDowell, 1971
Globe-Miami area — Near Miami. Porphyritic phase of pluton. Inspiration quad., GI county (33° 23.32', 110° 55.00'). L-A, K%= 7.0, *Ar=90, #L-846.

58.90 ± 0.90 # 1069
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area — South of Miami. Pinal Ranch quad., GI county (33° 21.90', 110° 53.30'). L-3, K%= 9.0, *Ar=66, #C80:29.

59.10 ± 1.80 # 1070
KA/biot/granite **Schultze Granite** Livingston and others, 1967
Globe-Miami area — About 3 km west of Miami on U.S. Hwy. 60-70. Porphyritic phase. Originally reported by Damon and others (1964). Inspiration quad., GI county (33° 23.00', 110° 54.17'). L-1, K%= 7.0, *Ar=80, #PED-05-59.

59.30 ± 0.70 # 1071
KA/biot/granite **Schultze Granite** Creasey, 1980
Globe-Miami area — Near Copper Spring Canyon Mine, south of Miami. Pinal Ranch quad., GI county (33° 20.60', 110° 54.00'). L-3, K%= 7.4, *Ar=71, #C80:07.

59.30 ± 1.80 ** # 1072
KA/biot/granite **Eaton granite** Erickson, 1981
Dos Cabezas Mtns. — Precambrian quartz monzonite gneiss (1433 Rb-Sr age) that has been reset by Laramide plutonism. Luzena quad., CH county (32° 16.20', 109° 34.47'). L-1, K%= 7.5, *Ar=67, #RCE-840-66.

59.40 ± 2.00 # 1073
KA/horn/orthogneiss **Gunsight orthogneiss** Haxel and others, 1984
Gunsight Hills -- Southeasternmost area. Hornblende-biotite orthogneiss. Pisinimo quad., PM county (32° 9.28', 112° 29.18'). L-3, K%= 0.5, *Ar=53, #GH-46B.

59.50 ± 0.00 # 1074
KA/biot/granite **Schultze Granite** Creasey and Kistler, 1962
Globe-Miami area — Porphyritic granite. Unclear whether this date is included in those reported by Creasey (1980). Inspiration quad., GI county (33° 22.75', 110° 54.50'). L-9, K%= 7.3, #C62:09.

59.50 ± 3.00 # 1075
KA/biot/granodiorite **Patagonia granodiorite** Marvin and others, 1973
Patagonia Mtns. — Probably a Paleocene pluton. Concordant hornblende date on same sample. Harshaw quad., SC county (31° 23.25', 110° 43.00'). L-2, K%= 5.2, *Ar=80, #M73:53.

59.50 ± 5.00 # 1076
KA/horn/granodiorite **Patagonia granodiorite** Marvin and others, 1973
Patagonia Mtns. — Probably a Paleocene pluton. Concordant biotite date from same sample. Harshaw quad., SC county (31° 23.25', 110° 43.00'). L-2, K%= 0.3, *Ar=39, #M73:53.

59.50 ± 3.00 # 1077
KA/biot/quartz monzonite **Patagonia granodiorite** Marvin and others, 1973
Patagonia Mtns. — Quartz-monzonite phase of granodiorite pluton. Duquesne quad., SC county (31° 20.50', 110° 44.75'). L-2, K%= 7.0, *Ar=85, #M73:54.

59.70 ± 9.00 # 1078
SR/biot/felsic porphyry **Granite Mtn. Porphyry** Moorbath and others, 1967
Ray area — Initial Sr86/Sr87 taken from plagioclase found in sample 4263, also from this area. Model age considered approximate only. Generalized lat-lon. Sri=0.7082+/-0.0010, 1 pt. Teapot Mtn. quad., PN county (33° 7.50', 111°0.00'). L-4, #4265.

59.70 ± 2.00 # 1079
KA/biot/mylonite gneiss **Quitobaquito mylonite** Haxel and others, 1984
Quitobaquito Hills — North-central area. Mylonite gneiss derived from banded gneiss in thrust zone of upper-plate. Quitobaquito Springs quad., PM county (31° 59.88', 113° 3.11'). L-3, K%= 4.7, *Ar=87, #OP-799I-1.

59.80 ± 2.30 # 1080
KA/biot/granite **Wikieup granite** Stauffer, 1979
Hualapai Mtns. — Granite porphyry. Wikieup NW quad., MO county (34° 38.11', 113° 40.91'). L-5, K%= 4.5, *Ar=60, #B-3368.

59.90 ± 0.70 ** # 1081
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey, 1980
Globe-Miami area — Pinto Valley Pit. Date is reduced age on mineralized Precambrian pluton. Inspiration quad., GI county (33° 24.00', 110° 57.00'). L-3, K%= 7.3, *Ar=62, #C80:21.

59.90 ± 0.70 # 1082
KA/biot/granite **Schultze Granite** Creasey, 1980
Globe-Miami area — South of Cactus Mine. Main phase of pluton. Pinal Ranch quad., GI county (33° 21.50', 110° 57.50'). L-3, K%= 8.2, *Ar=71, #C80:05.

59.90 ± 0.60 # 1083
KA/biot/granite **Schultze Granite** Creasey, 1980
Globe-Miami area — West of Miami. Porphyry phase of pluton. Inspiration quad., GI county (33o 23.50', 110° 53.60'). L-3, K%= 7.7, *Ar=75, #C80:12.

59.90 ± 1.90 # 1084
KA/biot/ultramylonite Quitobaquito mylonite Haxel and others, 1984
Quitobaquito Hills — North-central area. Ultramylonite derived from banded gneiss in thrust zone of upper-plate. Quitobaquito Springs quad., PM county (31° 59.90', 113° 3.20'). L-3, K%= 2.9, *Ar=67, #OP-799H.

60.00 ± 0.70 # 1085
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area -- South of Oxhide Mine. Porphyry phase of pluton. Inspiration quad., GI county (33° 22.60', 110° 54.80'). L-3, K%= 7.7, *Ar=68, #C80:15.

60.10 ± 1.80 # 1086
KA/biot/granodiorite Twin Buttes granodiorite Damon and others, 1964
Sierrita Mtns. — Twin Buttes area. Twin Buttes quad., PM county (31° 53.95', 111° 6.95'). L-1, K%= 7.7, *Ar=91, #PED-08-62.

60.20 ± 1.80 # 1087
KA/biot/quartz diorite Cowboy quartz diorite Erickson, 1981
Dos Cabezas Mtns. -- Complex quartz diorite stock intruding Pinal schist and Precambrian Polecat quartz monzonite. Luzena quad., CH county (32° 17.33', 109° 39.92'). L-1, K%= 7.4, *Ar=87, #RCE-806-66.

60.20 ± 0.70 # 1088
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area -- Southwest of Oxhide Mine. Quartz-sericite-sulfide vein. Pinal Ranch quad., GI county (33° 21.80', 110° 56.40'). L-3, K%= 8.9, *Ar=71, #C80:28.

60.30 ± 1.30 # 1089
KA/ /latite-dacite Florence latite-dacite dike Nason and others, 1982
Florence area — Unmineralized latite-dacite dike from near the Poston Butte porphyry copper ore body. Lab, material dated, exact location and analytical data not published. Florence quad., PN county (33° 3.00', 111° 25.00'). #N82:1.

60.40 ± 1.00 # 1090
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area — South of Cactus Mine. Main phase of pluton. Pinal Ranch quad., GI county (33° 21.77', 110° 57.17'). L-3, K%= 7.3, *Ar=87, #C80:01.

60.50 ± 3.20 ** # 1091
KA/biot/granitic gneiss Yuma granitic gneiss Eberly and Stanley, 1978
Yuma area — Age is reduced, because gneiss is probably Precambrian or Mesozoic. Yuma East quad., YU county (32° 40.27', 114° 35.87'). L-B, K%= 5.0, *Ar=60, #ES:116.

60.50 ± 1.00 # 1092
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area — Near Bluebird Mine. Main phase of pluton. Inspiration quad., GI county (33° 22.82', 110° 54.02'). L-3, K%= 7.1, *Ar=88, #C80:03.

60.70 ± 0.60 # 1093
KA/horn/granite Granite Basin Porphyry Creasey, 1984
Mescal Mtns. — Laccolith in Paleozoic rocks. Hornblende age on same pluton is 72 m.y. Generalized lat-lon. El Capitan quad., GI county (33° 9.75', 110° 39.70'). L-3, K%= 0.4, *Ar=44, #C84:3.

60.80 ± 0.70 # 1094
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area -- Southeast of Cactus Mine. Quartz-sericite-sulfide vein. Pinal Ranch quad., GI county (33° 21.05', 110° 56.65'). L-3, K%= 8.9, *Ar=75, #C80:24.

60.80 ± 1.80 # 1095
KA/biot/quartz monzonite Granite Mtn. Porphyry McDowell, 1971
Ray area — Along Arizona Hwy. 177, 6.4 km west of Ray. Coarse-grained porphyritic quartz monzonite with plagioclase phenocrysts. Teapot Mtn. quad., PN county (33° 10.75', 111° 2.40'). L-A, K%= 7.1, *Ar=94, #L-850.

60.90 ± 1.80 ** # 1096
KA/sani/rhyolite ash-flow tuff Mt. Lord Volcanics Mauger and others, 1965
Silver Bell Mtns. -- Tuff contains orthoclase and sanidine phenocrysts in a glassy matrix. Date is reduced because tuff is intruded by quartz monzonite that yields dates as old as 67 m.y. Also reported by Damon and others (1964). Vaca Hills quad., PM county (32° 26.50', 111° 32.02'). L-1, K%= 7.4, *Ar=93, #PED-06-63.

60.90 ± 0.70 ** # 1097
KA/biot/quartz monzonite Lost Gulch Quartz Monzonite Creasey, 1980
Globe-Miami area -- South of Pinto Valley Mine. Date is reduced age on Precambrian pluton. Inspiration quad., GI county (33° 23.87', 110° 56.70'). L-3, K%= 7.9, *Ar=73, #C80:42.

61.00 ± 1.20 # 1098
KA/biot/granodiorite Granite Mtn. Porphyry Banks and others, 1972
Ray area — Porphyritic biotite granodiorite. Teapot Mtn. quad., PN county (33° 10.75', 111° 2.40'). L-3, K%= 9.4, *Ar=80, #B72:14.

61.00 ± 0.70 # 1099
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area -- Southwest of Oxhide Mine. Early phase of pluton. Pinal Ranch quad., GI county (33° 22.40', 110° 56.80'). L-3, K%= 7.8, *Ar=76, #C80:06.

61.00 ± 0.50 # 1100
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area — West of Miami. Porphyry phase of pluton. Inspiration quad., GI county (33° 23.60', 110° 53.69'). L-3, K%= 7.3, *Ar=95, #C80:14.

61.00 ± 0.60 # 1101
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area — South of Cactus Mine. Quartz-sericite-sulfide vein. Pinal Ranch quad., GI county (33° 20.25', 110° 58.30'). L-3, K%= 8.9, *Ar=73, #C80:25.

61.00 ± 2.00 # 1102
KA/biot/rhyolite stock Saddle Mtn. rhyolite Krieger, 1968
Galiuro Mtns. — Northern end. Intrusive rhyolite stock. Analytical data not published. Location from Johnson and Todd (1973). Saddle Mtn. quad., PN county (32° 58.45', 110° 38.17'). L-3, C-?.

61.30 ± 0.70 # 1103
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area — North of Copper Cities Mine. Porphyry phase of pluton. Inspiration quad., GI county (33° 28.30', 110° 53.20'). L-3, K%= 8.0, *Ar=68, #C80:11.

61.30 ± 4.30 # 1104
KA/horn/dacite porphyry Gringo Gulch Volcanics Marvin and others, 1973
Santa Rita Mtns. — Hornblende dacite porphyry. Sample 64D660. Mt. Wrightson quad., SC county (31° 35.08', 110° 46.92'). L-2, K%= 0.6, *Ar=71, #M73:27.

61.50 ± 3.00 # 1105
KA/biot/vein Esperanza diorite (?) Marvin and others, 1973
Sierrita Mtns. — About 2.6 km west-northwest of Esperanza Mine. Coarse biotite veinlets in diorite from copper prospect. Twin Buttes quad., PM county (31° 53.00', 111° 9.00'). L-2, K%= 7.2, *Ar=91, #M73:09.

61.60 ± 0.60 # 1106
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area -- South of Cactus Mine. Quartz-sericite-sulfide vein. Pinal Ranch quad., GI county (33° 21.20', 110° 58.00'). L-3, K%= 8.7, *Ar=76, #C80:31.

61.60 ± 1.00 ** # 1107
KA/biot/granite Solitude Granite Creasey, 1980
Globe-Miami area — Northern Pinal Mtns., south of Miami. Date is reduced age on Precambrian two-mica granite. Pinal Ranch quad., GI county (33° 21.74', 110° 52.50'). L-3, K%= 7.5, *Ar=89, #C80:61.

61.70 ± 6.50 # 1108
FT/sphe/quartz monzonite Silver Bell porphyry Banks and others, 1978a
Silver Bell Mtns. -- Porphyritic quartz monzonite-granodiorite. Vaca Hills quad., PM county (32° 23.87', 111° 31.77'). L-2, #VHNE-168N.

61.70 ± 0.70 # 1109
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area -- West of Oxhide Mine. Main phase of pluton. Inspiration quad., GI county (33° 23.51', 110° 56.37'). L-3, K%= 7.8, *Ar=93, #C80:04.

61.80 ± 0.70 # 1110
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area — Near Copper Springs Canyon Mine. Quartz-sericite-sulfide vein. Pinal Ranch quad., GI county (33° 21.40', 110° 53.95'). L-3, K%= 8.9, *Ar=70, #C80:26.

61.90 ± 6.00 ** # 1111
FT/apat/diabase Diabase Banks and Stuckless, 1973
Ray area — Reset apatite from mineralized Precambrian diabase. Hot Tamale Peak quad., PN county (33° 10.50', 110° 59.50'). L-2, #BAS:27.

61.90 ± 1.80 # 1112
KA/biot/rhyolite Biotite rhyolite Bikerman and Damon, 1966
Tucson Mtns. -- Reportedly intrusive into Cat Mtn. Rhyolite, Anklam Fm., and Ivy May andesite. Cat Mtn. quad., PM county (32° 9.38', 111° 2.90'). L-1, K%= 7.3, *Ar=90, #PED-19-62.

62.00 ± 0.70 # 1113
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area -- Near Copper Cities Mine. Unaltered porphyry phase of pluton. Globe quad., GI county (33° 26.42', 110° 52.00'). L-3, K%= 7.4, *Ar=59, #C80:08.

62.00 ± 0.90 # 1114
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area -- Southeast of Cactus Mine. Quartz-sericite-sulfide vein. Pinal Ranch quad., GI county (33° 21.70', 110° 56.70'). L-3, K%= 8.8, *Ar=60, #C80:23.

62.00 ± 2.00 # 1115
KA/musc/vein Esperanza alteration Damon and Mauger, 1966
Sierrita Mtns. -- Esperanza pit. Muscovite-quartz veinlet. Twin Buttes quad., PM county (31° 52.00', 111° 7.70'). L-1, K%= 7.7, *Ar=89, #RM-03-62.

62.00 ± 3.00 # 1116
KA/biot/microgranodiorite Gringo Gulch Volcanics Marvin and others, 1973
Santa Rita Mtns. -- Gringo Gulch. Sample 63D281. Mt. Wrightson quad., SC county (31° 35.17', 110° 46.67'). L-2, K%= 5.1, *Ar=80, #M73:28.

62.20 ± 0.60 ** # 1117
KA/biot/quartz monzonite Lost Gulch Quartz Monzonite Creasey, 1980
Globe-Miami area -- Near Copper Cities Mine. Date represents reduced age on mineralized Precambrian pluton. Inspiration quad., GI county (33° 26.62', 110° 52.50'). L-3, K%= 7.7, *Ar=96, #C80:20.

62.40 ± 0.70 # 1118
KA/musc/vein Globe-Miami vein Creasey, 1980
Globe-Miami area -- Northwest of Oxhide Mine. Quartz-sericite-sulfide vein. Inspiration quad., GI county (33° 22.80', 110° 56.20'). L-3, K%= 8.9, *Ar=77, #C80:27.

62.50 ± 1.30 # 1119
KA/biot/granodiorite Four Metals breccia pipe Shafiqullah and others, 1980
Patagonia Mtns. -- North side of Providencia Canyon, at the Four Metals Mine, Red Hill. Harshaw quad., SC county (31° 23.84', 110° 44.17'). L-1, K%= 7.5, *Ar=93, #UAKA-77-29.

62.50 ± 1.60 # 1120
KA/seri/vein Christmas vein McKee and Koski, 1981
Dripping Spring Mtns. -- Christmas Mine. Quartz-K-feldspar-sericite-chlorite vein cutting biotite granodiorite porphyry of the Christmas stock. Hayden quad., GI county (33° 3.50', 110° 45.00'). L-3, K%= 8.7, *Ar=86, #D148-337.

62.50 ± 1.00 # 1121
KA/biot/granite Schultze Granite Creasey, 1980
Globe-Miami area -- Southwest of Cactus Mine. Main phase of pluton. Pinal Ranch quad., GI county (33° 21.12', 110° 59.24'). L-3, K%= 7.4, *Ar=87, #C80:02.

62.50 ± 0.50 # 1122
KA/biot/granodiorite Tea Cup Granodiorite Creasey, 1984
Globe-Miami area -- Equigranular phase. Generalized lat-lon. Grayback quad., PN county (33° 3.68', 111° 5.81'). L-3, K%= 7.5, *Ar=78, #C84:2.

62.50 ± 2.30 ** # 1123
KA/musc/mylonitic schist Harquahala thrust zone Hardy, 1984
Harquahala Mtns. -- White Marble Mine. Mylonitic schist derived from granite, 5 m above Harquahala thrust zone. Date provides minimum age of thrusting. Gladden quad., LP county (33° 47.44', 113° 24.88'). L-5, K%= 9.0, *Ar= 74, #83-11-8-4.

62.80 ± 1.30 # 1124
KA/w.r./basaltic andesite Gloryhole Volcanics Shafiqullah and others, 1980
Galiuro Mtns. -- Copper Creek area. From upper part of Gloryhole Volcanics, which are overlain by mid-Tertiary volcanics, and underlain by Paleozoic limestones. Oak Grove Canyon quad., PN county (32° 45.75', 110° 29.75'). L-1, K%= 1.8, *Ar=93, #UAKA-71-18.

62.80 ± 1.60 # 1125
KA/biot/vein Christmas vein McKee and Koski, 1981
Dripping Spring Mtns. -- Christmas Mine. Vein cuts Christmas stock and represents early potassic alteration of mineralized system. Material dated is pegmatitic, chloritic biotite. Christmas quad., GI county (33° 3.50', 110° 44.50'). L-3, K%= 3.1, *Ar=64, #CS-01-75.

62.90 ± 2.10 # 1126
FT/sphe/granodiorite **Granite Mtn. Porphyry** Banks and Stuckless, 1973
Ray area -- Seriate porphyritic biotite granodiorite. Considered to be the age of emplacement. Teapot Mtn. quad., PN county (33° 10.75', 111° 2.40'). L-2, #BAS:14.

62.90 ± 1.40 # 1127
KA/biot/granite **Sacaton Peak granite** Balla, 1972
Sacaton Mtns. -- Intermediate facies of ENE-trending pluton. Other biotite and hornblende dates on other samples of same pluton are slightly older. Average of two dates from the same sample. Sacaton quad., PN county (33° 1.82', 111° 40.90'). L-6, K%= 7.5, *Ar=90, #KA-71-73.

62.90 ± 1.20 # 1128
KA/biot/granodiorite **Wickenburg granodiorite** Rehrig and others, 1980
Vulture Mtns. -- Medium-grained, equigranular pluton intruded into Precambrian granite and gneiss. Forms basement for mid-Tertiary volcanic sequence. Material dated is vermiculitized biotite. Vulture Mtns. quad., MA county (33° 56.80', 112° 47.00'). L-1, K%= 4.8, *Ar=62, #UAKA-71-14.

63.00 ± 2.30 # 1129
KA/horn/diorite porphyry **Morenci diorite porphyry** McDowell, 1971
Morenci area -- About 4.8 km southwest of Morenci. Rock unit is fine-grained, porphyritic, and contains plagioclase phenocrysts and altered hornblende. Analyzed separate contained 10 percent chlorite. Clifton quad., GN county (33° 2.80', 109° 24.22'). L-A, K%= 0.4, *Ar=33, #L-847.

63.10 ± 0.70 ** # 1130
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey, 1980
Globe-Miami area -- Near Copper Cities Mine. Date represents reduced age on mineralized Precambrian pluton. Inspiration quad., GI county (33° 26.73', 110° 52.52'). L-3, K%= 7.7, *Ar=72, #C80:17.

63.10 ± 0.70 # 1131
KA/musc/vein **Globe-Miami vein** Creasey, 1980
Globe-Miami area -- South of Cactus Mine. Quartz-sericite-sulfide vein. Pinal Ranch quad., GI county (33° 21.15', 110° 58.00'). L-3, K%= 8.4, *Ar=74, #C80:30.

63.10 ± 2.00 # 1132
KA/biot/granodiorite **Ruby Star Granodiorite** Marvin and others, 1973
Sierrita Mtns. -- Pima district. Originally reported, in part, by Creasey and Kistler (1962). Twin Buttes quad., PM county (31° 54.00', 111° 6.50'). L-9, K%= 6.0, *Ar=88, #M73:10.

63.30 ± 3.20 # 1133
FT/garn/granodiorite **Grayback Granodiorite** Banks and Stuckless, 1973
Ray area -- Aplitic facies of garnet-muscovite-bearing granodiorite. Considered to be the age of emplacement. Grayback quad., PN county (33° 3.07', 111° 4.03'). L-2, #BAS:26.

63.40 ± 1.00 # 1134
KA/biot/granodiorite **Florence granodiorite** Nason and others, 1982
Florence area -- Mineralized granodiorite from Poston Butte porphyry copper ore body. Analtical data from Conoco. Generalized lat-lon. Florence quad., PN county (33° 3.11', 111° 25.00'). L-1, K%= 6.6, *Ar=87, #UAKA-72-23.

63.60 ± 0.00 ** # 1135
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey and Kistler, 1962
Globe-Miami area -- Near Pinto Valley Mine. Date is reduced age on mineralized Precambrian pluton. Unclear whether this date is among those reported by Creasey (1980). Inspiration quad., GI county (33° 25.00', 110° 57.50'). L-9, K%= 7.2, #C62:08.

63.60 ± 1.90 # 1136
KA/biot/quartz monzonite **New Cornelia stock** McDowell, 1971
Little Ajo Mtns. -- Northwest corner of Ajo Open pit. Medium-grained quartz monzonite with plagioclase phenocrysts. Ajo quad., PM county (32° 21.53', 112° 52.20'). L-A, K%= 3.5, *Ar=78, #L-843.

63.70 ± 0.70 ** # 1137
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey, 1980
Globe-Miami area -- Near Copper Cities Mine. Date is reduced age on mineralized Precambrian pluton. Inspiration quad., GI county (33° 26.62', 110° 52.88'). L-3, K%= 7.8, *Ar=71, #C80:16.

63.70 ± 1.20 # 1138
KA/biot/rhyodacite dike **Pre-Granite Mtn. Porphyry dike** Banks and others, 1972
Ray area -- Porphyritic biotite-hornblende rhyodacite. The dikes postdate both Tortilla and Rattler stocks but are pre-Granite Mtn. Porphyry. Teapot Mtn. quad., PN county (33° 9.50', 111° 1.72'). L-3, K%= 7.7, *Ar=80, #B72:12.

63.70 ± 2.30 # 1139
KA/k-sp/rhyolite dike **Prompter dike** Anaconda, unpub. data
Tombstone Hills — Rhyolite dike associated with manganese mineralization south of the Prompter fault. Tombstone quad., CH county (31° 41.03', 110° 4.37'). L-5, K%= 6.8, *Ar=72, #H7-1.

63.80 ± 2.30 # 1140
KA/plag/quartz monzonite **Lone Star quartz monzonite** Damon and Mauger, 1966
Gila Mtns. — Lone Star district, near Safford. Altered and mineralized quartz monzonite. Material dated listed as plagioclase and sericite. Generalized lat-lon. Precise location not reported. Safford quad., GM county (32° 55.00', 109° 36.00'). L-1, K%= 3.4, *Ar=95, #PED-04-64.

63.90 ± 2.30 # 1141
KA/horn/granite **Sacaton Peak granite** Balla, 1972
San Tan Mtns. -- Border facies of stock. Date is slightly younger than most biotite ages on same pluton. Average of two dates on the same sample. Florence quad., PN county (33° 3.23', 111° 29.58'). L-6, K%= 0.5, *Ar=35, #KA-71-66.

63.90 ± 1.90 # 1142
KA/biot/quartz monzonite **New Cornelia stock** McDowell, 1971
Little Ajo Mtns. — Northwest corner of Ajo open pit. Medium-grained quartz monzonite with plagioclase phenocrysts. Ajo quad., PM county (32° 21.53', 112° 52.20'). L-A, K%= 3.5, *Ar=82, #L-843.

64.00 ± 2.60 # 1143
KA/biot/granodiorite porphyry **Christmas stock** Creasey and Kistler, 1962
Dripping Spring Mtns. -- Christmas Mine. Revised age and rock-type description from McKee and Koski (1981). Christmas quad., GI county (33° 3.50', 110° 44.75'). L-9, K%= 6.5, #C62:12.

64.00 ± 2.00 # 1144
KA/phlo/alteration **Esperanza alteration** Damon and Mauger, 1966
Sierrita Mtns. — Esperanza Mine. Phlogopite-sericite rock. Twin Buttes quad., PM county (31° 52.00', 111° 7.70'). L-1, K%= 8.4, *Ar=81, #RM-01-62.

64.00 ± 0.00 ** # 1145
KA/biot/granodiorite **Copper Basin stock** Anderson, 1968
Sierra Prieta — Copper Basin. Analytical data and precise location not reported. Material dated listed as "biotite". Wilhoit quad., YA county (34° 29.50', 112° 35.00'). L-2, C-?, #A68:4.

64.00 ± 0.00 # 1146
KA/biot/granodiorite **Walker granodiorite** Anderson, 1968
Bradshaw Mtns. — Granodiorite stock intruded across trace of Chaparral Fault. Analytical data and precise lat-lon not reported. Date also referred to by Anderson and Blacet (1972). Mt. Union quad., YA county (34° 25.00', 112° 22.50'). L-2, C-?, #A68:7A.

64.30 ± 1.90 # 1147
KA/biot/quartz diorite **Silver Camp quartz diorite** Erickson, 1981
Dos Cabezas Mtns. — Quartz diorite stock that intrudes an upper Cretaceous lithic ash-flow tuff. Dos Cabezas quad., CH county (32° 14.55', 109° 38.22'). L-1, K%= 5.9, *Ar=94, #RCE-689-65.

64.40 ± 1.30 # 1148
KA/biot/granodiorite **Grayback Granodiorite** Damon and others, 1970
Tortilla Mtns. — Near Kelvin, from roadcut at power substation. Grayback quad., PN county (33° 3.07', 111° 4.03'). L-1, K%= 6.7, *Ar=86, #PHK-29-69.

64.40 ± 0.70 # 1149
KA/biot/granite **Schultze Granite** Creasey, 1980
Globe-Miami area — South of Pinto Valley Mine. Unaltered porphyry phase of pluton. Inspiration quad., GI county (33° 24.20', 110° 57.50'). L-3, K%= 7.6, *Ar=69, #C80:09.

64.40 ± 1.00 # 1150
KA/horn/quartz diorite **Leatherwood quartz diorite** Keith and others, 1980
Santa Catalina Mtns. — Date attributed to Creasey (1979, written comm.). Analytical data and location not reported. Generalized lat-lon. Bellota Ranch quad., PN county (32° 30.00', 110° 40.00'). L-3, #BR2.

64.40 ± 1.40 # 1151
KA/biot/ash-flow tuff **Cascabel fm.** Grover, 1982
Galiuro Mtns. — In Teran Basin, east of Teran Basin fault. Tuff is interbedded with conglomerates of Cascabel fm. Redington quad., CH county (32° 20.00', 110° 22.00'). L-1.

64.60 ± 1.30 # 1152
KA/biot/rhyodacite dike **Rare Metal Mine dike** Damon and others, 1970
Tortilla Mtns. — Near Kelvin, 61 m south of Rare Metal Mine. Listed as quartz monzonite porphyry dike. Grayback quad., PN county (33° 5.43', 111° 1.75'). L-1, K%= 7.2, *Ar=90, #PHK-05-69.

64.60 ± 2.20 # 1153
KA/biot/pegmatite **New Cornelia pegmatite** Damon and others, 1964
Little Ajo Mtns. — New Cornelia pit, Ajo. Quartz-monzonite composition, quartz-orthoclase-biotite pegmatite associated with porphyry copper mineralization. Ajo quad., PM county (32° 21.52', 112° 52.00'). L-1, K%= 6.0, *Ar=71, #RM-02-62.

64.60 ± 0.70 # 1154
KA/orth/quartz monzonite **Teapot Mtn. Porphyry** Banks and others, 1972
Ray area — Porphyritic quartz monzonite. Sample contains 98.4% pure orthoclase. Teapot Mtn. quad., PN county (33° 11.10', 111° 1.30'). L-2, K%=12.2, *Ar=89, #B72:17.

64.60 ± 2.00 # 1155
KA/biot/granodiorite **Granite Mtn. Porphyry** Banks and others, 1972
Ray area — Also reported, in part, by Creasey and Kistler (1962) as sample C62:11. Teapot Mtn. quad., PN county (33° 10.75', 111° 2.40'). L-9, K%= 6.9, *Ar=84, #B72:14.

64.60 ± 1.50 ** # 1156
KA/musc/mica schist **Calcite Mine schist** Shafiqullah and others, 1980
Granite Wash Mtns. — Near the Calcite Mine. Quartz-muscovite schist near intrusive contact with Granite Wash Granodiorite. Schist is derived from silicic ash-flow tuffs or volcaniclastic rocks of Jurassic (?) age. Salome quad., LP county (33° 47.00', 113° 41.30'). L-1, K%= 8.2, *Ar=34, #HVR-1.

64.70 ± 0.80 # 1157
KA/musc/vein **Globe-Miami vein** Creasey, 1980
Globe-Miami area -- South of Miami. Quartz-sericite-sulfide vein. Inspiration quad., GI county (33° 23.50', 110° 53.50'). L-3, K%= 8.5, *Ar=74, #C80:32.

64.70 ± 2.30 # 1158
KA/biot/granodiorite **Crown King granodiorite** Armstrong, 1975
Bradshaw Mtns. -- Sample taken at Bradshaw City turnoff on Senator Highway. Crown King quad., YA county (34° 11.65', 112° 21.22'). L-J, K%= 7.3, *Ar=91, #A75:CK.

64.70 ± 2.30 # 1159
KA/biot/granodiorite **Cactus Forest granodiorite** Rehrig, 1986
Picacho Mtns. — North of the Picacho Mountains and south of Cactus Forest. Cactus Forest quad., PN county (32° 54.53', 111° 15.15'). L-5, K%= 7.1.

64.80 ± 2.20 ** # 1160
KA/biot/quartz monzonite **El Tiro monzonite** Mauger and others, 1965
Silver Bell Mtns. — El Tiro pit. Mildly leached, mineralized host rock for porphyry copper mineralization, and thought to be ore-causative intrusion. Biotite had high water content, and was probably altered. Other biotite dates are slightly older. Vaca Hills quad., PM county (32° 25.67', 111° 32.22'). L-1, K%= 6.6, *Ar=76, #PED-02-63.

64.80 ± 6.30 # 1161
KA/horn/diorite porphyry **Morenci diorite porphyry** McDowell, 1971
Morenci area — 3 mi southwest of Morenci. Rock is fine grained with plagioclase phenocrysts and hornblende. Separate contained 10 percent chlorite. Clifton quad., GN county (33° 2.80', 109° 24.22'). L-A, K%= 0.4, *Ar=15, #L-847.

65.00 ± 0.00 # 1162
KA/biot/granodiorite **San Manuel porphyry** Creasey, 1965
San Manuel area -- San Manuel Mine. Hydrothermal biotite from the granodiorite porphyry host of mineralization. Mammoth quad., PN county (32° 41.00', 110° 41.50'). L-3, C-?.

65.10 ± 1.60 # 1163
KA/sani/rhyolite porphyry **Tombstone rhyolite porphyry** Marvin and Cole, 1978
Tombstone Hills — Biotite date on same sample is slightly older. Tombstone quad., CH county (31° 39.00', 110° 3.00'). L-2, K%= 7.6, *Ar=96, #74D143.

65.20 ± 0.70 ** # 1164
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey, 1980
Globe-Miami area — Near Copper Cities Mine. Date is reduced age on mineralized Precambrian pluton. Globe quad., GI county (33° 26.90', 110° 52.43'). L-3, K%= 8.2, *Ar=59, #C80:19.

65.20 ± 1.90 # 1165
KA/biot/quartz monzonite **New Cornelia stock** McDowell, 1971
Little Ajo Mtns. — Northwest corner of Ajo open pit. Medium-grained quartz monzonite with plagioclase phenocrysts. Ajo quad., PM county (32° 21.53', 112° 52.20'). L-A, K%= 3.5, *Ar=78, #L-843.

65.20 ± 2.00 # 1166
KA/biot/granodiorite **Trigo Mtns. granodiorite** Weaver, 1982
Trigo Mtns. -- South-central part of range. Picacho quad., LP county (33° 4.58', 114° 36.50'). L-7, K%= 7.7, *Ar=45, #2165.

65.28 ± 6.20 # 1167
SR/w.r./granodiorite **Grayback Granodiorite** Bradfish, 1979
Mineral Mtn. area — Intrusion referred to as the Tea Cup granodiorite. A K-Ar date of 64.4 m.y. has been obtained from biotite in a sample from the same pluton. Generalized lat-lon. Sri=0.7086+/-0.0002, 4 pts. Ninety Six Hills NW quad., PN county (32° 52.60', 111° 10.00'). L-1, #SEVERAL.

65.40 ± 2.00 # 1168
KA/biot/quartz diorite **Patagonia quartz diorite** Damon and Mauger, 1964
Patagonia Mtns. -- Harshaw quad., SC county (31° 23.20', 110° 43.10'). L-1, K%= 6.3, *Ar=83, #RM-07-63.

65.40 ± 2.60 # 1169
KA/musc/vein **Gold Basin vein** McKee, 1982
White Hills -- Gold Basin area. Quartz-muscovite-fluorite-pyrite vein that cuts Cretaceous (?) granitic rocks and is locally gold bearing. Garnet Mtn. quad., MO county (35° 46.00', 114° 14.00'). L-3, K%= 8.9, *Ar=21, #837.

65.40 ± 1.00 ** # 1170
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey, 1980
Globe-Miami area — Near Pinto Valley. Date is reduced age on mineralized Precambrian pluton. Inspiration quad., GI county (33° 23.85', 110° 56.72'). L-3, K%= 7.2, *Ar=88, #C80:38.

65.50 ± 1.40 # 1171
KA/biot/monzonite porphyry **Three Peaks monzonite** Pushkar and Damon, 1974
Sacaton Mtns. — Probably equivalent to Three Peaks monzonite, but highly altered by sericitization and kaolinization. Sample from core which contains disseminated chalcopyrite and pyrite. Casa Grande West quad., PN county (32° 57.17', 111° 49.17'). L-1, K%= 8.1, *Ar=88, #PED-12-70.

65.50 ± 3.50 # 1172
KA/ /diorite **Clay Spring diorite** Young, 1979
Music Mtns. -- Material analyzed and analytical data not reported. Generalized lat-lon. Music Mtns. NE quad., MO county (35° 42.65', 113° 51.42'). L-3, #Y79:1.

65.60 ± 1.40 ** # 1173
KA/biot/granite **Vulture Mtn. granite** Rehrig and others, 1980
Vulture Mtns. -- Granitic basement complex. Rock is coarse-grained granite with quartz veins and is probably Precambrian in age, but reset by Laramide intrusions. Vulture Mtns. quad., MA county (33° 56.80', 112° 50.80'). L-1, K%= 6.5, *Ar=87, #UAKA-75-55.

65.60 ± 2.00 # 1174
KA/horn/diorite **Winkelman diorite** Krieger, 1974a
Tortilla Mtns. — Age may have been reduced by intrusion of granodiorite porphyry. Analytical data and location not published. Winkelman quad., PN county (32° 58.00', 110° 51.93'). L-3, C-?.

65.80 ± 2.10 # 1175
KA/seri/quartz monzonite porphyry **Lakeshore stock** Johnston, 1972
Slate Mtns. — Lakeshore Mine. Intensely altered quartz monzonite porphyry (from drill hole) that is associated with chalcopyrite-pyrite mineralization. Separate contained 10 percent each of quartz and feldspar. Date reflects age of alteration. Silver Reef Mtns. quad., PN county (32° 31.40', 111° 54.13'). L-5, K%= 7.1, *Ar=87, #G-M1655.

65.80 ± 1.60 # 1176
KA/biot/andesite porphyry **Copper Creek andesite porphyry** Shafiqullah and others, 1980
Galiuro Mtns. — Copper Creek. Late-stage phase of the Copper Creek Granodiorite, which is associated with copper-sulfide mineralization. Rhodes Peak quad., PN county (32° 44.83', 110° 28.72'). L-1, K%= 4.9, *Ar=85, #UAKA-71-17.

66.00 ± 0.90 # 1177
KA/biot/granite **Sacaton Peak granite** Balla, 1972
San Tan Mtns. -- Intermediate phase of ENE-trending stock. Average of two dates from the same sample. Blackwater quad., PN county (33° 4.93', 111° 32.72'). L-6, K%= 7.0, *Ar=85, #KA-71-65.

66.00 ± 3.00 # 1178
KA/biot/rhyolite intrusion **Tombstone Hills rhyolite** Marvin and others, 1973
Tombstone Hills — Originally reported, in part, by Creasey and others (1962). Tombstone quad., CH county (31° 39.12', 110° 2.42'). L-9, K%= 7.4, #M73:95.

66.00 ± 2.20 ** # 1179
KA/biot/porphyritic granite **Little Harquahala monzodiorite** Shafiqullah and others, 1980
Little Harquahala Mtns. — Date is cooling age of older pluton and reflects end of metamorphic event or resetting by intrusion of Granite Wash Granodiorite. Hope quad., LP county (33° 43.00', 113° 36.30'). L-1, K%= 5.2, *Ar=50, #LHA-1.

66.10 ± 2.50 ** # 1180
KA/biot/granite **El Tiro biotite granite** Mauger and others, 1965
Silver Bell Mtns. — Date probably reduced by hydrothermal mineralization. Rock unit formerly termed Silver Bell alaskite. This unit has yielded a 72.8 m.y. U-Pb zircon age. Vaca Hills quad., PM county (32° 24.82', 111° 33.10'). L-1, K%= 6.3, *Ar=71, #PED-22-59.

66.30 ± 1.00 ** # 1181
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey, 1980
Globe-Miami area — Near Copper Cities Mine. Date is reduced age on mineralized Precambrian pluton. Inspiration quad., GI county (33° 26.62', 110° 52.50'). L-3, K%= 7.6, *Ar=94, #C80:18.

66.40 ± 2.80 # 1182
KA/k-sp/rhyolite ash-flow tuff **Cat Mountain Rhyolite** Bikerman and Damon, 1966
Tucson Mtns. — Ash-flow tuff overlies and forms matrix of Tucson Mountain chaos. Cat Mtn. quad., PM county (32° 13.42', 111° 5.13'). L-1, K%=10.3, *Ar=60, #MB-03-62.

66.50 ± 3.60 # 1183
KA/biot/granodiorite **Granite Wash granodiorite** Shafiqullah and others, 1980
Little Harquahala Mtns. — Granite Wash Pass. Originally numbered PED-03-66. Salome quad., LP county (33° 45.00', 113° 40.50'). L-1, K%= 6.2, *Ar=22, #UAKA-66-03.

66.60 ± 1.60 # 1184
KA/biot/rhyolite porphyry **Tombstone Hills rhyolite** Marvin and Cole, 1978
Tombstone Hills — Rhyolite porphyry plug. Tombstone quad., CH county (31° 39.00', 110° 3.00'). L-2, K%= 7.0, *Ar=90, #74D143.

66.70 ± 2.00 ** # 1185
KA/w.r./andesite **Roadside Fm.** Bikerman, 1967
Roskruge Mtns. -- Age is reduced, because unit underlies Roskruge Volcanics, which are dated at 67 to 76 m.y. Cocoraque Butte quad., PM county (32° 6.07', 111° 26.87'). L-1, K%= 3.4, *Ar=97, #MB-02-65.

66.72 ± 1.44 # 1186
KA/w.r./basaltic andesite boulder **Rim Gravel** Peirce and others, 1979
Apache Segment -- Mogollon Rim, Round Top Mtn. Clast in Rim Gravel. Round Top Mtn. quad., GI county (33° 56.01', 110°0.57'). L-1, K%= 1.8, *Ar=87, #UAKA-76-106.

66.80 ± 1.10 # 1187
KA/biot/vein **Ray vein** Banks and others, 1972
Ray area -- Hydrothermal biotite, Pearl Handle Pit. Books of biotite intergrown with molybdenite, chalcopyrite and quartz in veins in Granite Mtn. Porphyry. Age interpreted by Banks and others (1972) to be slightly too old due to excess Ar. Sonora quad., PN county (33° 10.50', 110° 59.50'). L-2, K%= 7.8, *Ar=92, #B72:20.

66.80 ± 2.00 ** # 1188
KA/biot/granite **Mineral Mtn. two-mica granite** Theodore and others, 1978
Mineral Mtn. area — Secondary biotite in Precambrian (?) two-mica granite. Mineral Mtn. quad., PN county (33° 7.60', 111° 14.75'). L-3, K%= 7.5, *Ar=72, #77T40.

66.90 ± 3.00 # 1189
KA/plag/ash-flow tuff **Roskruge Volcanics** Bikerman, 1967
Roskruge Mtns. — Upper Roskruge Volcanics. Probably slightly too young — see other dates on same sample. Cocoraque Butte quad., PM county (32° 8.32', 111° 23.43'). L-1, K%= 0.1, *Ar=57, #MB-15-64.

66.90 ± 1.50 ** # 1190
KA/seri/alteration zone **Mt. Wrightson Fm.** Shafiqullah and others, 1980
Santa Rita Mtns. — Quartz-sericite-pyrite alteration zone in volcanics of Jurassic(?) Mount Wrightson Fm. Date probably close to time of alteration. Mt. Wrightson quad., SC county (31° 38.00', 110° 50.00'). L-1, K%= 6.0, *Ar=96, #UAKA-73-158.

67.00 ± 1.40 # 1191
KA/biot/granite **Section 29 granite** Johnson, 1981
Picacho Mtns. — Northern end, near Lone Star prospect. Pluton is north of Lone Star fault. Cactus Forest quad., PN county (32° 51.90', 111° 17.66'). L-1, C-?.

67.00 ± 0.00 # 1192
KA/ /andesite Demetrie andesite Titley and Beane, 1981
Sierrita Mtns. -- Demetrie volcanics. From Damon (written comm., 1980). Generalized age and long-lat. Analytical data not reported. Twin Buttes quad., PM county (31° 55.90', 111° 6.63'). L-1, #TB:1.

67.10 ± 2.00 # 1193
KA/biot/quartz monzonite El Tiro monzonite Mauger and others, 1965
Silver Bell Mtns. -- El Tiro pit. Mineralized host rock for porphyry copper mineralization. Vaca Hills quad., PM county (32° 25.67', 111° 32.22'). L-1, K%= 6.9, *Ar=80, #PED-03-63.

67.10 ± 1.40 ** # 1194
KA/w.r./phyllite McCoy Mtns. Fm. Shafiqullah and others, 1980
Granite Wash Mtns. -- Lower Calcite Wash. Age records cooling after earlier metamorphic event or resetting by Granite Wash Granodiorite. Salome quad., LP county (33° 46.80', 113° 44.00'). L-1, K%= 1.5, *Ar=84, #UAKA-77-64.

67.20 ± 2.40 # 1195
KA/musc/granite Soap Canyon granite Stauffer, 1979
Hualapai Mtns. -- Possibly Precambrian with superimposed thermal events. Dean Peak quad., MO county (35° 5.39', 113° 48.71'). L-5, K%= 8.3, *Ar=76, #M-3429.

67.30 ± 1.10 # 1196
KA/biot/vein Ray vein Banks and others, 1972
Ray area — Hydrothermal biotite from the Pearl Handle Pit intergrown with molybdenite, chalcopyrite and quartz in Granite Mtn. Porphyry. Age interpreted by Banks and others (1972) to be slightly too old due to excess Ar. Sonora quad., PN county (33° 10.50', 110° 59.50'). L-2, K%= 7.2, *Ar=97, #B72:19.

67.30 ± 2.00 # 1197
KA/biot/granodiorite porphyry Copper Hills stock Marvin and Dobson, 1979
Tortilla Mtns. — Porphyry has intruded diorite and has been intruded by rhyodacite porphyry dikes that yielded a similar date. Winkelman quad., PN county (32° 57.65', 110° 51.55'). L-2, K%= 6.5, *Ar=90, #W-65A.

67.30 ± 2.00 # 1198
KA/biot/rhyodacite dike Winkelman rhyodacite dike Marvin and Dobson, 1979
Tortilla Mtns. -- Probably chilled phase or dike of granodiorite porphyry. Winkelman quad., PN county (32° 57.47', 110° 51.13'). L-2, K%= 7.1, *Ar=91, #W-86.

67.50 ± 6.00 # 1199
SR/w.r./aplite dike Sierrita Granite aplite Damon and others, 1965
Sierrita Mtns. — Model age. Sri=0.7120+/-0.0030 (assumed), 1 pt. Twin Buttes quad., PM county (31° 54.20', 111° 10.98'). L-1, #RM-1-65.

67.50 ± 6.60 # 1200
KA/biot/quartz monzonite Lakeshore stock Damon and Mauger, 1966
Slate Mtns. -- Near Prieta Peak. Silver Reef Mtns. quad., PN county (32° 32.60', 111° 53.20'). L-1, K%= 7.6, *Ar=34, #PED-20-64.

67.60 ± 0.00 # 1201
PB/zirc/granodiorite Montazona granodiorite Tosdal, 1979
Cimarron Mtns. — Intrusive associated with Montazona Mine. From J. E. Wright (1978, written comm.). Gu Achi quad., PM county (32° 26.85', 112° 6.41'). L-3, #3.

67.60 ± 1.40 # 1202
KA/horn/rhyolite Walnut Springs dike Houser and others, 1985
Gila Mtns. — Southern part, near Walnut Springs. Rhyolitic quartz-eye dike. No analytical data reported. Safford quad., GM county (32° 57.73', 109° 38.47'). L-1, #H85:E.

67.80 ± 2.00 # 1203
KA/musc/vein Gold Basin vein Theodore and others, 1982
White Hills — Gold Basin area, 1.6 km east of Bluebird Mine. Quartz vein that cuts Proterozoic gneisses and contains hydrothermal muscovite and local gold. Garnet Mtn. quad., MO county (35° 53.25', 114° 8.07'). L-3, K%= 9.1, *Ar=79, #278A.

68.40 ± 1.70 # 1204
KA/biot/granodiorite Wickenburg granodiorite Rehrig and others, 1980
Vulture Mtns. -- Medium-grained, equigranular pluton that has intruded Precambrian granite and gneisses. Forms basement for mid-Tertiary volcanic sequence. Vulture Mtns. quad., MA county (33° 52.50', 112° 50.50'). L-1, K%= 5.7, *Ar=46, #UAKA-71-34.

68.50 ± 0.00 # 1205
SR/w.r./quartz diorite Leatherwood quartz diorite Keith and others, 1980
Santa Catalina Mtns. -- Reference isochron constructed from samples PDP-1-68, PDP-2-68, DEL-11-69, and PDP-7-68, all from Leatherwood pluton. Generalized lat-lon. Sri=0.7083+/-0.0000, 4 pts. Mt. Bigelow quad., PM county (32° 28.00', 110° 44.50'). L-1, #SEVERAL.

68.50 ± 10.00 # 1206
SR/biot/felsic porphyry Granite Mtn. Porphyry Moorbath and others, 1967
Ray area --- Model age. Initial Sr86/Sr87 taken from coexisting plagioclase. Age considered approximate only. Generalized lat-lon. Sri=0.7082+/-0.0010, 1 pt. Teapot Mtn. quad., PN county (33° 7.50', 111°0.00'). L-4, #4263.

68.50 ± 2.00 # 1207
KA/biot/gneiss Trigo Mtns. metamorphics Weaver, 1982
Trigo Mtns. -- Southern part of the range. Quartzo-feldspathic biotite gneiss from crystalline basement. Picacho quad., LP county (33° 4.67', 114° 36.30'). L-7, K%= 6.0, *Ar=53, #2174.

68.60 ± 1.40 # 1208
KA/horn/andesite Las Guijas andesite Shafiqullah and others, 1980
Las Guijas -- In valley between Las Guijas. and Cerro Colorado Mtns. Unit is in fault contact with the mid-Tertiary Las Guijas alaskite and is overlain by mid-Tertiary volcanics. Arivaca quad., PM county (31° 39.08', 111° 20.02'). L-1, K%= 0.7, *Ar=85, #UAKA-77-50.

68.60 ± 0.50 # 1209
KA/biot/granodiorite Tea Cup Granodiorite Creasey, 1984
Globe-Miami area -- Porphyritic phase. Generalized lat-lon. Grayback quad., PN county (33° 4.91', 111° 3.06'). L-3, K%= 7.0, *Ar=90, #C84:1.

68.70 ± 2.00 # 1210
KA/biot/quartz monzonite El Tiro monzonite Mauger and others, 1965
Silver Bell Mtns. -- West side of range. Unmineralized sample of host rock for porphyry copper mineralization. Other biotite dates on unit are slightly younger, probably due to resetting during mineralization. Vaca Hills quad., PM county (32° 25.67', 111° 32.22'). L-1, K%= 5.5, *Ar=65, #PED-21-59.

68.70 ± 3.00 # 1211
KA/biot/diorite Josephine Canyon Diorite Marvin and others, 1973
Santa Rita Mtns. -- Mt. Wrightson quad., PM county (31° 34.92', 110° 51.17'). L-2, K%= 6.2, *Ar=78, #M73:30.

68.80 ± 2.20 # 1212
KA/biot/quartz monzonite porphyry Lakeshore stock Johnston, 1972
Slate Mtns. — Lakeshore Mine. Sample from drill hole. Porphyry is spatially associated with copper mineralization. Silver Reef Mtns. quad., PN county (32° 31.40', 111° 54.13'). L-5, K%= 6.7, *Ar=70, #G-B1652.

68.80 ± 2.50 ** # 1213
KA/biot/granite Oracle Granite (?) Langton, 1979
Gila Mtns. — Lone Star district, near Safford. Sample of secondary biotite from Precambrian (?) granite next to the Lone Star pluton. Analytical data and location not published. Safford quad., GM county (32° 55.00', 109° 36.00'). C-?.

68.80 ± 1.80 # 1214
KA/musc/vein Gold Basin vein Theodore and others, 1982
White Hills -- Gold Basin area, near Cyclopic Mine. Quartz-muscovite-fluorite-pyrite vein that cuts two-mica monzogranite and locally contains gold. Senator Mtn. quad., MO county (35° 48.32', 114° 15.22'). L-3, K%= 8.9, *Ar=89, #923.

69.00 ± 3.00 # 1215
KA/horn/dacite porphyry Gringo Gulch dike Marvin and others, 1973
Santa Rita Mtns. -- Sample 63D379. Mt. Wrightson quad., SC county (31° 37.42', 110° 47.50'). L-2, K%= 0.6, *Ar=57, #M73:32.

69.00 ± 2.20 # 1216
KA/biot/quartz monzonite Lakeshore stock Johnston, 1972
Slate Mtns. — Lakeshore Mine. Equigranular quartz monzonite that is early phase of pluton associated with mineralization. Silver Reef Mtns. quad., PN county (32° 30.83', 111° 59.33'). L-5, K%= 6.1, *Ar=70, #G-B1654.

69.00 ± 2.20 # 1217
KA/biot/quartz monzonite porphyry Lakeshore stock Johnston, 1972
Slate Mtns. — Lakeshore Mine. Porphyry is associated with copper mineralization. Sample taken from drill hole. Silver Reef Mtns. quad., PN county (32° 31.40', 111° 54.13'). L-5, K%= 7.1, *Ar=75, #G-B1653.

69.00 ± 0.00 # 1218
KA/biot/granodiorite San Manuel porphyry Creasey, 1965
San Manuel area — San Manuel Mine. Hydrothermal biotite from the granodiorite porphyry host of mineralization. Analytical data not reported. Mammoth quad., PN county (32° 41.00', 110° 41.50'). L-3, C-?.

69.50 ± 2.10 # 1219
KA/biot/granodiorite Madera Canyon Granodiorite (?) Damon and Mauger, 1966
Santa Rita Mtns. -- Madera Canyon area. Mt. Wrightson quad., SC county (31° 42.90', 110° 52.20'). L-1, K%= 7.1, *Ar=82, #RM-06-63.

69.60 ± 0.00 # 1220
KA/biot/granodiorite porphyry Copper Hills stock Damon and others, 1964
Tortilla Mtns. -- Slightly younger date reported by Marvin and Dobson (1979) on similar rock. Winkelman quad., PN county (32° 57.73', 110° 51.36'). L-1, K%= 6.5, *Ar=92, #PED-27-61.

69.60 ± 1.40 # 1221
KA/horn/diorite porphyry Carrizo laccolith Armstrong, 1969
Carrizo Mtns. — Teec Nos Pos Canyon. Hornblende-diorite porphyry. Pastora Peak quad., AP county (36° 51.50', 109° 7.22'). L-D, K%= 1.5, *Ar=69, #748.

69.60 ± 1.40 # 1222
KA/w.r./diorite porphyry Carrizo laccolith Armstrong, 1969
Carrizo Mtns. — Teec Nos Pos Canyon. Hornblende-diorite porphyry. Date is on whole rock minus heavy fraction, and is concordant with hornblende date. Pastora Peak quad., AP county (36° 51.50', 109° 7.22'). L-D, K%= 2.8, *Ar=56, #748R.

69.70 ± 0.00 # 1223
KA/biot/granodiorite Copper Creek Granodiorite Creasey and Kistler, 1962
Galiuro Mtns. — Copper Creek area. Granodiorite intrusive into the Glory Hole Volcanics. Clark Ranch quad., PN county (32° 38.50', 110° 30.00'). L-9, K%= 6.3, #C62:13.

69.80 ± 2.10 # 1224
KA/horn/rhyodacite intrusion McDonald Stock McKee and Koski, 1981
Dripping Spring Mtns. — Northeast of Christmas Mine. Hayden quad., GI county (33° 5.00', 110° 47.00'). L-3, K%= 0.4, *Ar=22, #83AB75.

69.90 ± 3.00 # 1225
KA/biot/quartz monzonite Elephant Head Quartz Monzonite Marvin and others, 1973
Santa Rita Mtns. -- Sample 65D754. Mt. Wrightson quad., PM county (31° 42.58', 110° 56.00'). L-2, K%= 7.0, *Ar=94, #M73:33.

70.00 ± 0.00 # 1226
KA/biot/granodiorite Big Bug stock Anderson, 1968
Bradshaw Mtns. — Northern part, along Big Bug Creek. Also referred to by Anderson and Blacet (1972). Analytical data not published. Mayer quad., YA county (34° 27.50', 112° 19.00'). L-2, C-?, #A68:7B.

70.00 ± 2.50 # 1227
KA/biot/granite Cedar Wash granite Stauffer, 1979
Hualapai Mtns. -- Central part, near Gold King Mine. Dean Peak quad., MO county (35° 1.41', 113° 49.37'). L-5, K%= 7.0, *Ar=70, #B-3366.

70.20 ± 1.40 # 1228
KA/biot/granodiorite Rattler Granodiorite Banks and others, 1972
Dripping Spring Mtns. -- Equigranular, medium-grained, hornblende granodiorite that cuts Paleozoic and older rocks and is cut by many dikes. Sonora quad., PN county (33° 8.85', 110° 53.80'). L-3, K%= 7.5, *Ar=78, #B72:09.

70.20 ± 2.20 # 1229
KA/w.r./phyllite Gu Achi phyllite Haxel and others, 1984
Santa Rosa Mtns. -- Southwestern Gu Achi Peak area. Quartzofeldspathic phyllite. Santa Rosa Mtns. quad., PM county (32° 19.92', 111° 54.17'). L-3, K%= 1.9, *Ar=90, #PR-90.

70.30 ± 1.40 # 1230
KA/biot/granodiorite Cocoraque Butte granodiorite Bikerman, 1967
Roskruge Mtns. — Pluton is same age as, and chemically similar to, the upper Roskruge Volcanics. Cocoraque Butte quad., PM county (32° 13.00', 111° 20.62'). L-1, K%= 7.3, *Ar=81, #MB-10-64.

70.30 ± 1.90 # 1231
KA/biot/ash-flow tuff Roskruge Volcanics Bikerman, 1967
Roskruge Mtns. -- Rhyodacite to quartz latite ash-flow tuff in upper Roskruge Volcanics. See slightly older biotite date on same sample. Cocoraque Butte quad., PM county (32° 9.95', 111° 23.40'). L-1, K%= 6.6, *Ar=36, #MB-14-64.

70.30 ± 1.20 ** # 1232
KA/biot/quartz diorite **Madera Diorite** Banks and others, 1972
Ray area -- Age is reset by Tortilla Quartz Diorite. Teapot Mtn. quad., PN county (33° 8.80', 111° 1.50'). L-2, K%= 6.1, *Ar=88, #B72:25.

70.30 ± 2.90 ** # 1233
KA/horn/amphibolite **Cunningham Pass gneiss** Shafiqullah and others, 1980
Harcuvar Mtns. — North of Cunningham Pass. Amphibolite is in banded gneiss. Date interpreted as approximating the termination of a major Late Cretaceous metamorphic event, which postdates the Tank Pass Granite, but predates mylonitization. Salome quad., LP county (33° 58.94', 113° 33.67'). L-1, K%= 1.2, *Ar=61, #SJR-HV-78-1.

70.30 ± 1.70 # 1234
KA/biot/diorite **Tortilla Quartz Diorite** Shafiqullah and others, 1980
Ray area -- From cliffs along Mineral Wash south of Ray Mine. Sonora quad., PN county (33° 7.55', 110° 58.17'). L-1, K%= 7.2, *Ar=81, #UAKA-70-06.

70.40 ± 2.30 # 1235
FT/sphe/granodiorite **Rattler Granodiorite** Banks and Stuckless, 1973
Ray area — Porphyritic biotite-hornblende granodiorite facies in eastern lobe of stock. Considered to be emplacement age. El Capitan Mtn. quad., GI county (33° 8.90', 110° 52.35'). L-2, #BAS:10.

70.40 ± 1.70 # 1236
KA/sani/ash-flow tuff **Roskruge Volcanics** Bikerman, 1967
Roskruge Mtns. -- Rhyodacitic to quartz latitic, ash-flow tuff in upper Roskruge Volcanics. Cocoraque Butte quad., PM county (32° 8.32', 111° 23.43'). L-1, K%= 9.6, *Ar=59, #MB-15-64.

70.40 ± 1.50 # 1237
KA/biot/ash-flow tuff **Roskruge Volcanics** Bikerman, 1967
Roskruge Mtns. -- Rhyodacitic to quartz latitic ash-flow tuff in upper Roskruge Volcanics. Cocoraque Butte quad., PM county (32° 6.78', 111° 25.12'). L-1, K%= 7.1, *Ar=69, #MB-01-65.

70.40 ± 0.00 ** # 1238
KA/plag/quartz monzonite **Texas Canyon Quartz Monzonite** Livingston and others, 1967
Little Dragoon Mtns. — Date is anomalously old with respect to muscovite and biotite K-Ar dates and Rb-Sr mineral isochron. Separate included 30 percent quartz. Corrected lat-lon from Marvin and others (1978). Dragoon quad., CH county (32° 3.67', 110° 4.50'). L-1, K%= 0.4, *Ar=79, #PED-11-60.

70.50 ± 1.70 # 1239
KA/biot/quartz latite dike **Silver Lily dike** Shafiqullah and others, 1980
Tucson Mtns. — Dike intrudes Tucson Mountain Chaos and Cat Mountain Rhyolite. Avra quad., PM county (32° 15.00', 111° 8.00'). L-1, K%= 6.2, *Ar=89, #UAKA-75-49.

70.60 ± 4.20 # 1240
FT/apat/granodiorite **Rattler Granodiorite** Banks and Stuckless, 1973
Ray area -- Porphyritic biotite-hornblende granodiorite facies in eastern lobe of stock. Considered to be emplacement age. El Capitan Mtn. quad., GI county (33° 8.90', 110° 52.35'). L-2, #BAS:10.

70.70 ± 1.10 # 1241
KA/biot/dike **Mineral Mtn. dike** Rehrig, 1986
Florence area -- East-west dike swarm near Mineral Mtn. Generalized lat-lon. North Butte quad., PN county (33° 4.05', 111° 12.00'). L-1, K%= 6.6, *Ar=82, #UAKA-72-1.

70.80 ± 0.00 # 1242
KA/biot/granodiorite **Granite Wash granodiorite** Eberly and Stanley, 1978
Little Harquahala Mtns. -- Date is probably only slightly younger than emplacement age. Hope quad., LP county (33° 44.76', 113° 40.45'). L-B, K%= 3.5, *Ar=69, #ES:94.

70.80 ± 2.90 # 1243
KA/biot/quartz monzonite **Elephant Head Quartz Monzonite** Marvin and others, 1973
Santa Rita Mtns. -- Sample 65D876. Mt. Wrightson quad., PM county (31° 43.58', 110° 53.83'). L-2, K%= 6.8, *Ar=88, #M73:34.

71.20 ± 2.00 ** # 1244
KA/musc/granite **Solitude Granite** Creasey, 1980
Globe-Miami area -- South of Miami, northern Pinal Mtns. Date is reduced age on Precambrian two-mica pluton. Pinal Ranch quad., GI county (33° 21.74', 110° 52.50'). L-3, K%= 8.4, *Ar=89, #C80:60.

71.30 ± 2.10 # 1245
KA/horn/dacite porphyry **Tortilla Mtns. dacite porphyry** Krieger, 1974a
Tortilla Mtns. -- Analytical data not published. Crozier Peak quad., PN county (32° 56.05', 110° 57.20'). L-3, C-?.

71.40 ± 1.60 # 1246
KA/biot/ash-flow tuff **Roskruge Volcanics** Bikerman, 1967
Roskruge Mtns. -- Rhyodacitic to quartz latitic ash-flow tuff in upper Roskruge Volcanics. Cocoraque Butte quad., PM county (32° 4.68', 111° 27.87'). L-1, K%= 6.8, *Ar=76, #MB-01-64.

71.40 ± 2.00 ** # 1247
KA/biot/quartz monzonite **Mineral Mtn. quartz monzonite** Theodore and others, 1978
Mineral Mtn. area -- Date is cooling age on late Cretaceous (?) pluton. Hornblende date from same sample is 124 m.y. Mineral Mtn. quad., PN county (33° 8.75', 111° 14.50'). L-3, K%= 6.1, *Ar=65, #76T30.

71.40 ± 3.00 ** # 1248
KA/biot/granodiorite **Willow Spring Granodiorite** Creasey, 1980
Globe-Miami area -- Near Pinto Valley Mine. Date is reduced age on Precambrian pluton. Inspiration quad., GI county (33° 24.07', 110° 56.95'). L-3, K%= 7.5, *Ar=18, #C80:52.

71.50 ± 0.00 # 1249
SR/w.r./quartz diorite **Leatherwood quartz diorite** Keith and others, 1980
Santa Catalina-Tortolita Mtns. -- Reference isochron constructed assuming that Leatherwood quartz diorite and Chirreon Wash granodiorite are comagmatic. Generalized lat-lon. Sri=0.7083 (assumed), 10 pts. Mt. Bigelow quad., PM county (32° 28.00', 110° 44.50'). L-1, #SEVERAL.

71.50 ± 6.10 # 1250
FT/apat/tonalite **Tortilla Quartz Diorite** Banks and Stuckless, 1973
Ray area -- Tonalite facies of Tortilla Quartz Diorite. Considered to be the age of emplacement. Hot Tamale Peak quad., PN county (33° 8.00', 110° 59.70'). L-2, #BAS:2.

71.50 ± 1.40 # 1251
KA/biot/granodiorite **Rattler Granodiorite** Banks and others, 1972
Dripping Spring Mtns. -- Porphyritic biotite-hornblende granodiorite facies in eastern lobe of stock. El Capitan Mtn. quad., GI county (33° 8.90', 110° 52.35'). L-3, K%= 7.3, *Ar=85, #B72:10B.

71.50 ± 1.40 ** # 1252
KA/biot/rhyodacite dike **Post-Teapot Mtn. Porphyry dike** Banks and others, 1972
Dripping Spring Mtns. -- Porphyritic biotite-hornblende rhyodacite dike that cuts Rattler Granodiorite. Sample has low potassium content and is 61% biotite, with 38% chlorite. Age interpreted to be too old due to excess Ar in chlorite. Sonora quad., GI county (33° 9.30', 110° 53.50'). L-3, K%= 4.0, *Ar=87, #B72:18.

71.50 ± 5.50 # 1253
KA/biot/granodiorite **Trigo Mtns. granodiorite** Weaver, 1982
Trigo Mtns. -- South-central part of range. Picacho quad., LP county (33° 5.63', 114° 36.20'). L-7, K%= 7.5, *Ar=24, #2193.

71.50 ± 2.60 # 1254
KA/biot/granite **Gunsight granite** Stauffer, 1979
Hualapai Mtns. -- Central part, near Deluge Wash. Gunsight Canyon quad., MO county (34° 49.27', 113° 44.00'). L-5, K%= 6.9, *Ar=74, #B-3365.

71.70 ± 1.50 # 1255
KA/biot/ash-flow tuff **Roskruge Volcanics** Bikerman, 1967
Roskruge Mtns. -- Rhyodacitic to quartz latitic ash-flow tuff in upper Roskruge Volcanics. Cocoraque Butte quad., PM county (32° 9.95', 111° 23.40'). L-1, K%= 6.6, *Ar=31, #MB-14-64.

71.90 ± 2.10 # 1256
KA/biot/quartz latite **Roskruge Volcanics (?)** Banks and others, 1978a
Roskruge Mtns. -- Fine-grained flows in small alluvium-surrounded hills west of the northern Roskruge Mtns. Petrographically similar to upper Roskruge Volcanics and Mt. Lord Volcanics. Vaca Hills quad., PM county (32° 17.70', 111° 36.30'). L-3, K%= 7.4, *Ar=73, #VHSE-7N.

71.90 ± 2.40 # 1257
KA/k-sp/rhyolite ash-flow tuff **Cat Mountain Rhyolite** Bikerman and Damon, 1966
Tucson Mtns. -- Near Gates Pass. Cat Mtn. quad., PM county (32° 12.93', 111° 5.95'). L-1, K%= 5.6, *Ar=71, #MB-01-62.

71.90 ± 2.50 # 1258
KA/biot/quartz monzonite **Empire stock** Marvin and others, 1973
Empire Mtns. -- Sample F-32-68. Empire Mtns. quad., PM county (31° 54.00', 110° 38.00'). L-2, K%= 7.4, *Ar=96, #M73:74.

72.00 ± 4.00 # 1259
FT/zirc/quartz diorite **Tortilla Quartz Diorite** Banks and Stuckless, 1973
Ray area -- Considered to be the age of emplacement. Hot Tamale Peak quad., PN county (33° 7.60', 110° 58.10'). L-2, #BAS:3.

72.00 ± 2.50 # 1260
FT/zirc/tonalite **Tortilla Quartz Diorite** Banks and Stuckless, 1973
Ray area — Tonalite facies of Tortilla Quartz Diorite. Considered to be the age of emplacement. Hot Tamale Peak quad., PN county (33° 8.00', 110° 59.70'). L-2, #BAS:2.

72.00 ± 2.10 # 1261
KA/musc/two-mica granite **Cyclopic stock** Theodore and others, 1982
White Hills — Gold Basin area, 2 km north of Cyclopic Mine. Leucocratic two-mica quartz monzonite pluton interpreted to be related to gold mineralization. Senator Mtn. quad., MO county (35° 48.32', 114° 15.25'). L-3, K%= 8.9, *Ar=77, #884.

72.10 ± 1.40 # 1262
KA/biot/quartz monzonite **Mineral Butte quartz monzonite** Balla, 1972
San Tan Mtns. — Small, NW-SE-elongated stock. Two identical determinations reported here together. Blackwater quad., PN county (33° 6.90', 111° 34.90'). L-6, K%= 5.0, *Ar=86, #KA-71-64.

72.10 ± 2.30 # 1263
KA/w.r./phyllite **Gu Achi phyllite** Haxel and others, 1984
Santa Rosa Mtns. -- Southwestern Gu Achi Peak area. Quartzofeldspathic phyllite. Santa Rosa Mtns. quad., PM county (32° 20.00', 111° 54.20'). L-3, K%= 2.5, *Ar=64, #PR-91.

72.30 ± 2.20 # 1264
KA/horn/rhyodacite porphyry **Granite Basin Porphyry** McKee and Koski, 1981
Mescal Mtns. — A 600m-thick laccolith intruding Paleozoic carbonate rocks, 8 km northeast of Christmas Mine. Biotite age on same unit is 60.7 m.y. Christmas quad., GI county (33° 7.00', 110° 41.00'). L-3, K%= 0.4, *Ar=29, #GB-01.

72.40 ± 1.40 # 1265
KA/biot/quartz diorite **Tortilla Quartz Diorite** Banks and others, 1972
Ray area -- Sonora quad., PN county (33° 7.60', 110° 58.10'). L-3, K%= 7.1, *Ar=90, #B72:03.

72.60 ± 2.30 # 1266
KA/biot/quartz monzonite **Bagdad stock** Damon and Mauger, 1966
Bagdad area — Bagdad Mine open pit. Altered quartz monzonite porphyry. Bagdad quad., YA county (34° 35.00', 113° 12.50'). L-1, K%= 6.9, *Ar=78, #PED-17-64.

72.60 ± 1.50 # 1267
KA/seri/granodiorite **Copper Basin stock** Christman, 1978
Sierra Prieta — Copper Basin, west of Copper Basin Wash. Granodiorite-quartz monzonite that is one of the older phases of the Copper Basin pluton. Wilhoit quad., YA county (34° 29.75', 112° 35.10'). L-1, K%= 8.1, *Ar=95, #UAKA-76-25.

72.80 ± 1.00 # 1268
PB/zirc/granite **El Tiro biotite granite** Sawyer, 1986
Silver Bell Mtns. -- Pre-caldera biotite granite intrusion cut by the ring fault of the Silver Bell caldera. Approximate lat-lon. No analytical data reported. Vaca Hills quad., PM county (32° 25.00', 111° 33.00'). L-N.

72.80 ± 1.50 # 1269
KA/biot/quartz latite porphyry **Copper Basin stock** Christman, 1978
Sierra Prieta -- Copper Basin, west of Copper Basin Wash. Younger quartz latite porphyry phase of Copper Basin stock. Wilhoit quad., YA county (34° 29.05', 112° 35.57'). L-1, K%= 6.7, *Ar=96, #UAKA-76-01.

72.90 ± 3.20 # 1270
KA/biot/granodiorite **Rattler Granodiorite** Damon and Mauger, 1966
Dripping Spring Mtns. -- Troy district. Equigranular, medium-grained granodiorite facies. Sonora quad., PN county (33° 8.60', 110° 53.90'). L-1, K%= 7.1, *Ar=40, #DEL-01-65.

72.90 ± 1.50 # 1271
KA/horn/quartz latite porphyry **Copper Basin stock** Christman, 1978
Sierra Prieta — Copper Basin, west of Copper Basin Wash. Younger quartz latite porphyry phase of Copper Basin stock. Kirkland quad., YA county (34° 29.05', 112° 35.57'). L-1, K%= 0.7, *Ar=81, #UAKA-76-01.

72.90 ± 2.90 # 1272
KA/biot/granite **Trigo Mtns. granite** Weaver, 1982
Trigo Mtns. — Dike that cuts metamorphic basement rocks. Picacho quad., LP county (33° 7.35', 114° 36.80'). L-7, K%= 7.0, *Ar=39, #2194.

73.00 ± 1.60 # 1273
KA/biot/ash-flow tuff **Roskruge Volcanics** Bikerman, 1967
Roskruge Mtns. -- Rhyodacitic to quartz latitic ash-flow tuff in upper Roskruge Volcanics. Additional biotite date on same sample is slightly younger. Cocoraque Butte quad., PM county (32° 4.68', 111° 27.87'). L-1, K%= 6.8, *Ar=84, #MB-01-64.

73.00 ± 3.40 # 1274
KA/biot/granite Amole granite Bikerman and Damon, 1966
Tucson Mtns. — Northern part. Pluton intrudes Paleozoic and Mesozoic rocks. Avra quad., PM county (32° 16.36', 111° 12.57'). L-1, K%= 5.2, *Ar=31, #PED-03-64.

73.00 ± 4.00 # 1275
KA/biot/latitic tuff Dove Canyon Volcanics Marvin and others, 1973
Canelo Hills — Partly welded latitic tuff. Sample 62P35. Canelo Pass quad., SC county (31° 24.75', 110° 30.75'). L-2, K%= 5.5, *Ar=73, #M73:68.

73.10 ± 2.60 # 1276
KA/phlo/quartz monzonite Ithaca Peak stock Damon and Mauger, 1966
Cerbat Mtns. — Ithaca Peak (Mineral Park Mine). Altered, mineralized rock. Chloride quad., MO county (35° 22.70', 114° 8.55'). L-1, K%= 7.7, *Ar=71, #RM-05-65.

73.10 ± 2.10 # 1277
KA/biot/tonalite Tortilla Quartz Diorite Banks and others, 1972
Ray area — Separate contained 2.8% chlorite. Sonora quad., PN county (33° 7.55', 110° 58.70'). L-3, K%= 6.5, *Ar=94, #B72:05.

73.30 ± 1.40 # 1278
KA/biot/tonalite Tortilla Quartz Diorite Banks and others, 1972
Ray area -- Sonora quad., PN county (33° 8.00', 110° 59.70'). L-3, K%= 7.1, *Ar=95, #B72:02B.

73.40 ± 1.40 # 1279
KA/biot/monzonite Three Peaks monzonite Balla, 1972
Sacaton Mtns. — Elongate, N70E-trending stock. Average of two dates on the same sample. Casa Grande West quad., PN county (32° 58.72', 111° 49.08'). L-6, K%= 6.8, *Ar=93, #KA-71-69.

73.50 ± 2.30 # 1280
KA/biot/quartz diorite Arnett Creek quartz diorite Balla, 1972
Superior area — Small stock west of Superior. Average of two dates on the same sample. Picketpost Mtn. quad., PN county (33° 16.48', 111° 9.93'). L-6, K%= 6.6, *Ar=80, #KA-71-43.

73.50 ± 2.80 # 1281
KA/biot/rhyodacite tuff Uncle Sam Porphyry Marvin and others, 1973
Tombstone Hills — Lithic ash-flow tuff. Sample 68D582. Fairbank quad., CH county (31° 41.25', 110° 14.75'). L-2, K%= 4.7, *Ar=90, #M73:96.

73.70 ± 1.80 # 1282
KA/horn/andesite Muleshoe volcanics (?) Shafiqullah and others, 1980
Galiuro Mtns. — Near Hooker Hot Springs. Volcanic unit exposed below turkey track porphyry and the Galiuro Volcanics. Reportedly overlies sandstone, shale, limestone, and conglomerate of Bisbee Fm. Redington quad., CH county (32° 20.00', 110° 16.00'). L-1, K%= 0.6, *Ar=79, #UAKA-74-42.

73.80 ± 1.60 # 1283
KA/biot/ash-flow tuff Roskruge Volcanics Bikerman, 1967
Roskruge Mtns. -- Rhyodacitic to quartz latitic ash-flow tuff in upper Roskruge Volcanics. Cocoraque Butte quad., PM county (32° 8.32', 111° 23.43'). L-1, K%= 7.0, *Ar=69, #MB-15-64.

73.80 ± 13.20 ** # 1284
KA/biot/basalt Reeves No. 1 basalt Eberly and Stanley, 1978
Buckeye area — From 1,050-1,062 m in Reeves No. 1 Fuqua. Age appears spurious because basalt is probably Miocene. Generalized lat-lon. Buckeye NW quad., MA county (33° 24.00', 112° 49.00'). L-B, K%= 2.5, *Ar=11, #ES:96.

73.90 ± 3.00 # 1285
KA/biot/welded tuff Meadow Valley Trachyandesite Marvin and others, 1973
Canelo Hills -- About 3.5 km west of Canelo Pass. Canelo Pass quad., SC county (31° 28.75', 110° 36.00'). L-2, K%= 6.7, *Ar=96, #M73:67.

74.10 ± 2.00 # 1286
KA/w.r./basalt dike Golden Rule Mine dike Shafiqullah and others, 1980
Dragoon Mtns. — Near the Golden Rule Mine. Dike strikes northeast and cuts mineralized veins in Abrigo Fm., and is mineralized with gold and sulfide ores. Cochise quad., CH county (32° 1.80', 109° 58.00'). L-1, K%= 1.5, *Ar=96, #UAKA-74-24.

74.20 ± 1.50 # 1287
KA/biot/ash-flow tuff Roskruge Volcanics Bikerman, 1967
Roskruge Mtns. — Rhyodacitic to quartz latitic ash-flow tuff in upper Roskruge Volcanics. Cocoraque Butte quad., PM county (32° 8.32', 111° 23.43'). L-1, K%= 7.0, *Ar=85, #MB-15-64.

74.30 ± 3.30 # 1288
KA/biot/rhyodacite welded tuff Salero Fm. Marvin and others, 1973
Santa Rita Mtns. -- Sample 64D850. Mt. Wrightson quad., SC county (31° 35.75', 110° 55.58'). L-2, K%= 4.1, *Ar=86, #M73:35.

74.50 ± 2.20 # 1289
KA/biot/granite Amole granite Bikerman and Damon, 1966
Tucson Mtns. -- Northern part. Avra quad., PM county (32° 17.67', 111° 9.75'). L-1, K%= 6.7, *Ar=88, #PED-11-63.

74.50 ± 2.90 # 1290
KA/biot/welded tuff Sugarloaf Quartz Latite Marvin and others, 1973
Dragoon Mtns. -- Southern part, at Sugarloaf Hill. Outlaw Mtn. quad., CH county (31° 43.00', 109° 47.00'). L-2, K%= 7.2, *Ar=90, #M73:93.

74.60 ± 8.40 # 1291
FT/apat/quartz diorite Tortilla Quartz Diorite Banks and Stuckless, 1973
Ray area -- Considered to be the age of emplacement. Hot Tamale Peak quad., PN county (33° 7.60', 110° 58.10'). L-2, #BAS:3.

74.60 ± 0.00 # 1292
KA/orth/granite Schultze Granite Livingston and others, 1967
Globe-Miami area -- About 3 km west of Miami on U.S. Hwy. 60-70. Porphyritic phase. Lat-lon from Damon and others (1964). Inspiration quad., GI county (33° 23.00', 110° 54.17'). L-1, K%=10.0, *Ar=95, #PED-05-59.

75.00 ± 2.70 # 1293
KA/seri/vein Tombstone vein Anaconda, unpub. data
Tombstone Hills -- Northeast trending vein structure cutting Uncle Sam Porphyry near the State of Main Mine. Tombstone quad., CH county (31° 41.97', 110° 6.77'). L-5, K%= 6.8, *Ar=71, #G2-2.

75.30 ± 2.90 # 1294
KA/biot/quartz diorite Corona quartz monzonite Marvin and others, 1973
Santa Rita Mtns. -- Northern end. Empire Mtns. quad., PM county (31° 55.33', 110° 42.50'). L-2, K%= 5.7, *Ar=95, #M73:36.

75.50 ± 2.70 # 1295
KA/biot/quartz monzonite Corona quartz monzonite Marvin and others, 1973
Santa Rita Mtns. -- Northern end. Empire Mtns. quad., PM county (31° 55.83', 110° 43.60'). L-2, K%= 7.4, *Ar=94, #M73:37.

75.50 ± 1.60 # 1296
KA/biot/granodiorite Copper Basin stock Christman, 1978
Sierra Prieta -- Copper Basin, in Copper Basin Wash. Older granodiorite border facies of pluton. Wilhoit quad., YA county (34° 28.49', 112° 35.26'). L-1, K%= 6.8, *Ar=95, #UAKA-75-117.

75.60 ± 1.20 # 1297
KA/biot/granodiorite Mineral Mtn. stock Rehrig, 1986
Florence area -- Generalized lat-lon. North Butte quad., PN county (33° 4.50', 111° 14.50'). L-1, K%= 5.8, *Ar=77, #UAKA-71-33.

75.80 ± 1.50 # 1298
KA/biot/ash-flow tuff Roskruge Volcanics Bikerman, 1967
Roskruge Mtns. -- Viopuli ignimbrite, lower part of Roskruge Volcanics. Additional biotite date from different locality is similar in age. Cocoraque Butte quad., PM county (32° 4.83', 111° 28.90'). L-1, K%= 6.2, *Ar=81, #PED-12-61.

75.80 ± 1.40 # 1299
KA/biot/andesitic tuff Williamson Canyon Volcanics Keith, 1977
Galiuro Mtns. -- Northern end of range. Andesitic lithic-crystal tuff about 4 cm thick intercalated in arkosic conglomerate about 30 m above base of volcanic section. Analytical data not published. Saddle Mtn. quad., PN county (32° 57.93', 110° 39.28'). L-1, K%= 6.7, *Ar=93, #UAKA-75-63.

76.00 ± 1.50 # 1300
KA/biot/ash-flow tuff Roskruge Volcanics Bikerman, 1967
Roskruge Mtns. -- Viopuli ignimbrite, lower part of Roskruge Volcanics, which overlie Cocoraque and Roadside formations. Cocoraque Butte quad., PM county (32° 5.47', 111° 26.10'). L-1, K%= 7.2, *Ar=90, #MB-05-64.

76.00 ± 3.00 # 1301
KA/biot/granodiorite Schieffelin Granodiorite Marvin and others, 1973
Tombstone Hills -- Date originally reported, in part, by Creasey and Kistler (1962). Tombstone quad., CH county (31° 43.80', 110° 6.15'). L-9, K%= 3.3, #M73:97.

76.00 ± 4.00 # 1302
KA/biot/granodiorite Whetstone granodiorite Marvin and others, 1973
Whetstone Mtns. -- Southern part, near Granite Peak. Sample A-25. Apache Peak quad., CH county (31° 46.30', 110° 25.35'). L-2, K%= 5.8, *Ar=86, #M73:79.

76.00 ± 4.00 # 1303
KA/horn/granodiorite Whetstone granodiorite Marvin and others, 1973
Whetstone Mtns. -- Southern part, near Granite Peak. Sample A-25. Apache Peak quad., CH county (31° 46.30', 110° 25.35'). L-2, K%= 0.5, *Ar=63, #M73:79.

76.20 ± 2.30 # 1304
KA/horn/tuff Williamson Canyon Volcanics McKee and Koski, 1981
Dripping Spring Mtns. -- Christmas Mine area. Age interpreted as slightly too young because of alteration. Hayden quad., GI county (33° 2.50', 110° 45.00'). L-3, K%= 0.4, *Ar=29, #74AB75.

76.20 ± 1.90 # 1305
KA/horn/andesite porphyry dike Christmas dike McKee and Koski, 1981
Dripping Spring Mtns. -- Christmas Mine. Hornblende-bearing dike. Christmas quad., GI county (33° 3.00', 110° 43.00'). L-3, K%= 0.5, *Ar=41, #72AB74.

76.30 ± 1.50 # 1306
KA/horn/granodiorite Rattler Granodiorite Banks and others, 1972
Dripping Spring Mtns. -- Porphyritic biotite-hornblende granodiorite facies in eastern lobe of stock. Date is slightly older than biotite date on same sample. El Capitan Mtn. quad., GI county (33° 8.90', 110° 52.35'). L-3, K%= 0.7, *Ar=63, #B72:10H.

76.30 ± 3.00 ** # 1307
KA/biot/gneissic granodiorite White Hills granodiorite Theodore and others, 1982
White Hills — Gold Basin area, 2 km east of Cyclopic Mine. Proterozoic gneiss adjacent to Cretaceous (?) granitic pluton and dikes. Garnet Mtn. quad., MO county (35° 48.05', 114° 12.73'). L-3, K%= 7.5, *Ar=85, #999.

76.30 ± 1.80 # 1308
KA/biot/granodiorite Schieffelin Granodiorite (?) Marvin and Cole, 1978
Tombstone Hills -- Granodiorite exposed in railroad cut along San Pedro River. Lewis Springs quad., CH county (31° 37.00', 110° 10.00'). L-2, K%= 7.2, *Ar=90, #74D91.

76.40 ± 3.00 # 1309
KA/seri/alteration Charleston alteration Anaconda, unpub. data
Tombstone Hills — Hydrothermal sericite from the Charleston lead mine. Date attributed to E. H. McKee. Fairbank quad., CH county (31° 39.29', 110° 9.29'). L-3, K%= 7.7, *Ar=75.

76.80 ± 2.20 # 1310
KA/biot/granophyre Amole granite Bikerman and Damon, 1966
Tucson Mtns. — Granophyric phase of Amole pluton. Sample taken 100 m from contact with quartz monzonite (granite) phase. Avra quad., PM county (32° 17.63', 111° 9.76'). L-1, K%= 7.1, *Ar=95, #PED-12-63.

77.40 ± 3.80 # 1311
KA/horn/rhyodacite dike Charleston dike Anaconda, unpub. data
Tombstone Hills -- Rhyodacite dike that cuts breccia pipe along Charleston road. Tombstone SW quad., CH county (31° 40.12', 110° 7.43'). L-5, K%= 0.7, *Ar=23, #A-2197.

78.60 ± 3.80 ** # 1312
KA/biot/granite porphyry Trigo Mtns. granite porphyry Weaver, 1982
Trigo Mtns. -- Northern end of range. Collected from a brecciated, partially chloritized zone, 1 meter below detachment fault. Mule Wash quad., LP county (33° 23.42', 114° 31.07'). L-7, K%= 6.4, *Ar=34, #2168.

80.00 ± 4.30 ** # 1313
KA/biot/tuff Muggins Mtns. volcanics Eberly and Stanley, 1978
Muggins Mtns. -- White crystal tuff intercalated with poorly consolidated clastics. Age is spurious, because some biotite is metamorphic and actual age of tuff is probably Miocene. Wellton quad., YU county (32° 42.68', 114° 11.60'). L-B, K%= 2.3, *Ar=62, #ES:112.

80.80 ± 1.80 # 1314
KA/w.r./andesite dike Tortilla Mtns. andesite dike Keith, 1977
Tortilla Mtns. -- Fine-grained diorite to light-green andesite with scattered plagioclase phenocrysts, which were removed from whole-rock fraction. NNW-trending dike intrudes tilted Romero Wash fault. Analytical data not published. Winkelman quad., PN county (32° 56.17', 110° 50.78'). L-1, K%= 1.5, *Ar=95, #UAKA-75-88.

81.70 ± 2.40 # 1315
KA/horn/andesite Christmas andesite porphyry McKee and Koski, 1981
Dripping Spring Mtns. -- Christmas area. Hornblende andesite porphyry. Hayden quad., GI county (33° 2.98', 110° 45.14'). L-3, K%= 0.4, *Ar=33, #54AB75.

82.00 ± 1.40 ** # 1316
KA/biot/tonalite Tortilla Quartz Diorite Banks and others, 1972
Ray area — Date is probably slightly too old due to excess argon in the biotite separate, which contained 22 percent chlorite. Teapot Mtn. quad., PN county (33° 8.60', 111° 1.55'). L-2, K%= 5.0, *Ar=91, #B72:04.

82.20 ± 1.90 # 1317
KA/horn/microdiorite Williamson Canyon stock Keith, 1977
Galiuro Mtns. — Northern end. Stock intrudes Williamson Canyon Volcanics and hornblende andesite porphyry. Analytical data not published. Saddle Mtn. quad., PN county (32° 59.36', 110° 43.80'). L-1, K%= 0.4, *Ar=88, #UAKA-75-64.

82.70 ± 1.40 # 1318
KA/horn/basalt dike Williamson Canyon dike (?) Keith, 1977
Galiuro Mtns. — Northern end of range. Hornblende basalt porphyry that contains large (to 3 cm) hornblende phenocrysts. Dikes cut Williamson Canyon Volcanics and are cut by microdiorite dikes. Analytical data not reported. Christmas quad., PN county (33° 1.93', 110° 40.13'). L-1, K%= 0.7, *Ar=86, #UAKA-76-66.

84.00 ± 5.10 ** # 1319
KA/biot/granite porphyry Trigo Mtns. granite porphyry Weaver, 1982
Trigo Mtns. — Northern end of range. Collected from a brecciated, partially chloritized zone, 3 meters below detachment fault. Mule Wash quad., LP county (33° 23.42', 114° 31.07'). L-7, K%= 5.5, *Ar=29, #2175.

85.20 ± 1.70 ** # 1320
KA/horn/tonalite Tortilla Quartz Diorite Banks and others, 1972
Ray area — Date is probably slightly too old. Hornblende separate contained 1.7 percent pyroxene and 2.8 percent chlorite. Sonora quad., PN county (33° 8.00', 110° 59.70'). L-3, K%= 0.5, *Ar=59, #B72:02H.

86.00 ± 4.00 ** # 1321
PB/uran/mineralization Orphan breccia pipe Miller and Kulp, 1963
Grand Canyon -- Eastern area. Orphan Mine. Ore from breccia pipe that cuts the Permian Hermit and Coconino Formations. Date probably reflects open-system behaviour of Jurassic ores. Ludwig and others (1986) suggest a 200-220 m.y. age for the Orphan pipe Bright Angel quad., CN county (36° 4.33', 112° 9.00'). L-A, C-2, #K-168.
PB/PB = 394.0 ± 45.0 238U/PB = 86.0 ± 4.0 235U/PB = 100.0 ± 4.0 TH/PB = 0.0 ± 0.0

86.80 ± 8.50 ** # 1322
KA/horn/gneiss Trigo Mtns. metamorphics Weaver, 1982
Trigo Mtns. -- Southwestern edge of range near Clip Wash. Picacho quad., LP county (33° 13.58', 114° 38.97'). L-7, K%= 1.1, *Ar=17, #2187.

87.60 ± 9.00 ** # 1323
FT/apat/granite Hunters Point granite Naeser, 1971
Defiance Plateau -- Precambrian basement. Age is discordant with sphene age from same sample. Apatite age is interpreted as a cooling age following uplift. Hunters Point quad., AP county (35° 32.80', 109° 7.00'). L-2, #HP5.

88.20 ± 3.10 ** # 1324
KA/horn/granodiorite White Tank granodiorite Armstrong, 1975
White Tank Mtns. — Northwest piediment. Significance of date is uncertain. White Tank Mtns. quad., MA county (33° 37.14', 112° 39.28'). L-J, K%= 0.7, *Ar=65, #A75:WT.

89.70 ± 5.00 ** # 1325
KA/biot/granodiorite Willow Spring Granodiorite Creasey, 1980
Globe-Miami area — Near Copper Cities mine. Date is reduced age on Precambrian pluton that probably correlates with Madera Diorite. Inspiration quad., GI county (33° 26.00', 110° 53.40'). L-3, K%= 7.5, *Ar=11, #C80:48.

90.30 ± 5.30 ** # 1326
KA/biot/granite porphyry Trigo Mtns. granite porphyry Weaver, 1982
Trigo Mtns. -- Sample collected about 100 meters below detachment fault. Mule Wash quad., LP county (33° 24.33', 114° 31.15'). L-7, K%= 7.2, *Ar=32, #2118R.

94.70 ± 2.00 ** # 1327
KA/biot/diorite Lake Pleasant diorite Shafiqullah and others, 1980
Hieroglyphic Mtns. — Near Lake Pleasant. Date on this nonfoliated diorite that intrudes Precambrian schist is probably reduced. Baldy Mtn. quad., MA county (33° 46.30', 112° 21.30'). L-1, K%= 6.6, *Ar=90, #UAKA-76-114.

96.00 ± 1.90 ** # 1328
KA/horn/quartz diorite Tortilla Quartz Diorite Banks and others, 1972
Ray area -- Porphyritic, hornblende-quartz-diorite facies of pluton. Date is too old. Separate contained one percent each of pyroxene and fibrous amphibole. Sonora quad., PN county (33° 7.80', 110° 58.80'). L-3, K%= 0.5, *Ar=73, #B72:08B.

97.00 ± 4.00 ** # 1329
PB/uran/mineralization Chinle Formation Miller and Kulp, 1963
Cameron area -- Ore in Petrified Forest Member, lower Chinle Fm., Ramco 20-22 Mine. Ludwig and others (1986) suggest a 200-220 m.y. age for the statabound Colorado Plateau ores. Approximate lat-lon. Wupatki NE quad., CN county (35° 44.00', 111° 18.00'). L-A, C-2, #K-183A.
PB/PB = 1107.0 ± 40.0 238U/PB = 97.0 ± 4.0 235U/PB = 148.5 ± 5.0 TH/PB = 0.0 ± 0.0

100.0 ± 1.7 ** # 1330
KA/biot/quartz diorite Madera Diorite Banks and others, 1972
Ray area -- Reduced date on Precambrian pluton. Sonora quad., PN county (33° 12.49', 110° 59.95'). L-2, K%= 5.7, *Ar=80, #B72:24B.

100.0 ± 2.0 ** # 1331
KA/horn/diorite Comobabi pluton Shafiqullah and others, 1980
Comobabi Mtns. -- Date is too young on this Jurassic pluton. Sells quad., PM county (31° 58.00', 111° 48.00'). L-1, K%= 0.7, *Ar=89, #UAKA-73-49.

100.6 ± 6.8 ** # 1332
KA/biot/granite porphyry Trigo Mtns. granite porphyry Weaver, 1982
Trigo Mtns. -- Sample collected about 500 meters below detachment fault. Picacho quad., LP county (33° 18.30', 114° 34.58'). L-7, K%= 5.8, *Ar=26, #2191.

107.5 ± 3.2 ** # 1333
KA/biot/tonalite Trigo Mtns. tonalite Weaver, 1982
Trigo Mtns. -- Southeast of Hart Mine from lower plate of detachment fault. Cibola quad., LP county (33° 17.18', 114° 33.65'). L-7, K%= 6.9, *Ar=55, #2170R.

109.3 ± 7.7 ** # 1334
KA/biot/gneiss Trigo Mtns. metamorphics Weaver, 1982
Trigo Mtns. -- Collected 4 meters below the volcanic-crystalline contact. Picacho quad., LA county (33° 8.80', 114° 40.80'). L-7, K%= 6.6, *Ar=24, #2167.

111.0 ± 2.4 # 1335
KA/w.r./andesite Cocoraque Fm. Bikerman, 1967
Roskruge Mtns. -- Andesite interbedded in Cocoraque Fm., which is thought to correlate with the Amole Arkose of the Tucson Mtns. Cocoraque Butte quad., PM county (32° 10.12', 111° 19.30'). L-1, K%= 3.6, *Ar=71, #MB-16-64.

111.0 ± 3.0 ** # 1336
KA/biot/monzonite porphyry Constellation pluton Shafiqullah and others, 1980
Wickenburg Mtns. -- Constellation area. This Precambrian (?) porphyry is foliated and the host rock for Ni, Cu, Au, Ag mineralization. Morgan Butte quad., YA county (34° 4.00', 112° 34.50'). L-1, K%= 5.8, *Ar=94, #UAKA-72-25.

113.0 ± 2.0 ** # 1337
KA/horn/quartz diorite Tortilla Quartz Diorite Banks and others, 1972
Ray area -- Porphyritic, hornblende-quartz-diorite facies of pluton. Date is too old, even though hornblende separate was 99 percent pure. Sonora quad., PN county (33° 7.80', 110° 58.80'). L-3, K%= 0.5, *Ar=85, #B72:08A.

114.7 ± 13.9 ** # 1338
KA/horn/metagranite Trigo Mtns. metamorphics Weaver, 1982
Trigo Mtns. -- South-central part of range. Hornblende metagranite dike that cuts metamorphosed intrusive rocks. Hidden Valley quad., LP county (33° 9.28', 114° 35.68'). L-7, K%= 1.1, *Ar=14, #2195.

120.0 ± 1.0 ** # 1339
KA/biot/granodiorite Willow Spring Granodiorite Creasey, 1980
Globe-Miami area -- Near Copper Cities Mine. Date is reduced age on Precambrian pluton that probably correlates with Madera Diorite. Inspiration quad., GI county (33° 26.00', 110° 53.45'). L-3, K%= 7.1, *Ar=97, #C80:45.

124.0 ± 4.0 ** # 1340
KA/horn/quartz monzonite Mineral Mtn. quartz monzonite Theodore and others, 1978
Mineral Mtn. area -- Date is probably too old -- biotite date on same sample is much younger. Mineral Mtn. quad., PN county (33° 8.75', 111° 14.50'). L-3, K%= 0.5, *Ar=54, #76T30.

126.9 ± 3.8 ** # 1341
KA/seri/alteration pipe White Hills alteration Theodore and others, 1982
White Hills -- Gold Basin area. Episyenitic alteration pipe that is gold-bearing. Date interpreted by McKee as being too old, because alteration is thought to be Late Cretaceous in age. Garnet Mtn. quad., MO county (35° 46.70', 114° 11.12'). L-3, K%= 9.7, *Ar=91, #79-GM-8B.

127.0 ± 4.0 ** # 1342
PB/uran/mineralization Chinle Formation Miller and Kulp, 1963
Cameron area -- Ore in Petrified Forest Member, lower Chinle Fm., Alyce Toline Mine. Ludwig and others (1986) suggest an age of 200-220 m.y. for the stratabound uranium deposits of the Colorado Plateau. Cameron quad., CN county (35° 52.50', 111° 22.50'). L-A, C-2, #K-178.
PB/PB = 1372.0 ± 80.0 238U/PB = 127.0 ± 4.0 235U/PB = 216.0 ± 5.0 TH/PB = 0.0 ± 0.0

127.3 ± 6.0 ** # 1343
SR/min./monzonite Harris Ranch Monzonite (?) Damon and others, 1966
Sierrita Mtns. -- Reanalysis of sample reported in Damon and others (1965). Isochron constructed from whole rock and two feldspar analyses. Sri=0.7095+/-0.0006, 3 pts. Twin Buttes quad., PM county (31° 54.68', 111° 14.57'). L-1, #RM-10-63.

129.0 ± 3.0 ** # 1344
KA/para/granodiorite Spring Valley granodiorite Shafiqullah and others, 1980
Hieroglyphic Mtns. -- Date, on paragonite with 0.6 percent K, is either reduced or too old on this stock that intrudes Yavapai Supergroup rocks. Governors Peak quad., YA county (33° 56.00', 112° 22.00'). L-1, K%= 0.6, *Ar=92, #UAKA-77-69.

129.0 ± 1.3 ** # 1345
KA/biot/granodiorite Willow Spring Granodiorite Creasey, 1980
Globe-Miami area -- Near Copper Cities Mine. Date is reduced age on Precambrian pluton that probably correlates with Madera Diorite. Inspiration quad., GI county (33° 26.02', 110° 53.22'). L-3, K%= 7.5, *Ar=68, #C80:50.

130.3 ± 3.9 ** # 1346
KA/seri/alteration pipe White Hills alteration Thoedore and others, 1982
White Hills -- Gold Basin area. Gold-bearing, episyenitic alteration pipe. Date interpreted to be too old, because alteration is thought to be Late Cretaceous in age. Garnet Mtn. quad., MO county (35° 46.70', 114° 11.12'). L-3, K%= 9.7, *Ar=88, #79-GM-8B.

131.0 ± 3.0 ** # 1347
KA/horn/porphyritic andesite Ray hornblende andesite Banks and others, 1972
Ray area -- South of Ray Mine. Date is too old. Rock is correlated with Williamson Canyon Volcanics. Sonora quad., PN county (33° 9.10', 110° 57.70'). L-3, K%= 0.4, *Ar=72, #B72:01.

137.0 ± 5.0 ** # 1348
KA/biot/granite Oracle Granite (?) Reif and Robinson, 1981
Florence area -- From 1270 m in Phillips AZ State A-1 well. Date is reduced age on coarse-grained, Precambrian granite. Picacho Reservoir quad., PN county (32° 51.00', 111° 17.50'). C-?, K%= 7.0, #RR:1.

137.1 ± 14.0 ** # 1349
SR/w.r./granite Sierrita Granite Damon and others, 1966
Sierrita Mtns. -- Host unit for aplite dike dated at 69 m.y. Re-analysis of sample originally reported by Damon and others (1965). Model age. Sri=0.7100+/-0.0020 (assumed), 1 pt. Twin Buttes quad., PM county (31° 52.49', 111° 10.33'). L-1, #RM-2-65.

139.0 ± 4.0 ** # 1350
PB/uran/mineralization Orphan breccia pipe Gornitz and Kerr, 1970
Grand Canyon -- Eastern area. Orphan Mine. Ore from breccia pipe that cuts the Permian Hermit and Coconino Formations. Ludwig and others (1986) suggest an age of 200-220 m.y. for the Orphan breccia pipe. Bright Angel quad., CN county (36° 4.33', 112° 9.00'). L-A, C-2, #8.
PB/PB = 262.0 ± 35.0 238U/PB = 133.0 ± 3.0 235U/PB = 139.0 ± 4.0 TH/PB = 0.0 ± 0.0

140.0 ± 4.0 ** # 1351
KA/biot/granite Sore Fingers granite Shafiqullah and others, 1980
Little Harquahala Mtns. -- Sore Fingers area. Date is partially reduced on this Jurassic (?) pluton. Lone Mtn. quad., LP county (33° 38.20', 113° 29.90'). L-1, K%= 6.7, *Ar=92, #UAKA-73-20.

141.0 ± 3.0 ** # 1352
KA/biot/granite Oracle Granite Shafiqullah and others, 1980
Black Mtn. -- North of Oracle Junction. Date represents a reduced age. Black Mtn. quad., PN county (32° 49.60', 110° 57.00'). L-1, K%= 7.9, *Ar=96, #UAKA-63-32.

144.0 ± 11.0 ** # 1353
SR/w.r./welded tuff Canelo Hills Volcanics Marvin and others, 1973
Huachuca Mtns. -- Rb-Sr date from sample reported in Hayes (1970b). Model age. A K-Ar age of 147 m.y. obtained from biotite from the same sample is also reported. No analytical data reported. Sri=0.7065+/-0.0000 (assumed), 1(?) pt. Huachuca Peak quad., CH county (31° 23.33', 110° 23.00'). L-2, C-?, #HH-443.

147.0 ± 6.0 # 1354
KA/biot/welded tuff Canelo Hills Volcanics Marvin and others, 1973
Huachuca Mtns. -- Crystal-rich ash-flow tuff. Sample HH443. Huachuca Peak quad., CH county (31° 23.33', 110° 23.00'). L-2, K%= 6.4, *Ar=93, #M73:65.

148.0 ± 2.0 # 1355
SR/w.r./volcanics Canelo Hills Volcanics Kluth and others, 1982
Canelo Hills -- Isochron constructed from five samples from three localities. Age coincides well with previously reported dates of 144 m.y. (Rb-Sr) and 147 m.y. (K-Ar), but some samples are K-metasomatized. Sri=0.7092+/-0.0009, 5 pts. O'Donnell Canyon quad., SC county (31° 30.50', 110° 34.00'). L-1, #SEVERAL.

148.0 ± 6.0 # 1356
KA/biot/granite Squaw Gulch Granite Marvin and others, 1973
Santa Rita Mtns. -- Sample 64D605. Mt. Wrightson quad., SC county (31° 36.50', 110° 56.33'). L-2, K%= 7.0, *Ar=94, #M73:38.

149.0 ± 3.0 # 1357
KA/biot/granodiorite Amado granodiorite Marvin and Cole, 1978
Tumacacori Mtns. — Longitude and general location listed in compilation of Marvin and others (1978) is incorrect. Tubac quad., SC county (31° 41.00', 111° 9.00'). L-2, K%= 4.3, *Ar=89, #74D84.

149.0 ± 5.0 # 1358
KA/biot/granite Sierrita Granite Marvin and Cole, 1978
Sierrita Mtns. -- West flank of range. Palo Alto Ranch quad., PM county (31° 51.50', 111° 18.00'). L-2, K%= 6.5, *Ar=70, #72D69.

152.2 ± 9.1 ** # 1359
KA/horn/amphibolite Trigo Mtns. metamorphics Weaver, 1982
Trigo Mtns. -- South of Hart Mine. Collected from lower-plate detachment ramp. Cibola SE quad., LP county (33° 16.23', 114° 35.55'). L-7, K%= 0.7, *Ar=31, #2188.

154.0 ± 4.0 # 1360
KA/biot/granodiorite Amado granodiorite Shafiqullah and others, 1980
Tumacacori Mtns. -- Pluton intrudes Paleozoic sedimentary rocks on the north and is covered by Tertiary volcanics on the south. Tubac quad., SC county (31° 41.50', 111° 8.12'). L-1, K%= 5.1, *Ar=93, #UAKA-73-65.

155.0 ± 5.0 # 1361
KA/plag/andesite porphyry Museum porphyry Shafiqullah and others, 1980
Tucson Mtns. — Near Arizona-Sonora Desert Museum. Porphyry intrudes Jurassic-Triassic Recreation Red Beds. Brown Mtn. quad., PM county (32° 14.80', 111° 8.50'). L-1, K%= 1.6, *Ar=87, #UAKA-67-200.

157.0 ± 10.0 ** # 1362
KA/horn/tuff Nogales Fm. Marvin and others, 1973
Santa Cruz Valley — Date is too old. Tuff is intercalated in Upper Tertiary Nogales Fm. Nogales quad., SC county (31° 23.50', 110° 56.00'). L-2, K%= 0.6, *Ar=90, #M73:56.

159.0 ± 11.0 ** # 1363
FT/zirc/granite xenolith Buell Park diatreme Naeser, 1971
Defiance Plateau — Xenolith from diatreme matrix, which is itself intruded by minette dikes. Zircon age is an average of five analyses and reflects partial annealing. Buell Park quad., AP county (35° 53.50', 109° 6.30'). L-2, #BP2.

160.0 ± 4.0 ** # 1364
PB/uran/mineralization Chinle Formation Miller and Kulp, 1963
Cameron area — Ore in Petrified Forest Member, lower Chinle Fm., Ramco 20-22 Mine. Ludwig and others (1986) suggest an age of 220-220 m.y. for the stratabound uranium deposits of the Colorado Palteau. Approximate lat-lon. Wupatki NE quad., CN county (35° 44.00', 111° 18.00'). L-A, C-2, #K-183B.
PB/PB = 764.0 ± 50.0 238U/PB = 160.0 ± 4.0 235U/PB = 193.0 ± 5.0 TH/PB = 0.0 ± 0.0

162.0 ± 3.3 ** # 1365
KA/biot/quartz monzonite **Mineral Mtn. quartz monzonite** Balla, 1972
Mineral Mtn. area -- Date interpreted by Balla to be too old for this N70E-trending, elongated, Laramide (?) stock. Average of two dates on the same sample. Mineral Mtn. quad., PN county (33° 8.76', 111° 14.40'). L-6, K%= 5.1, *Ar=94, #KA-71-72.

163.0 ± 7.0 ** # 1366
KA/biot/granodiorite **Continental Granodiorite** Marvin and others, 1973
Santa Rita Mtns. -- Date is reduced age on Precambrian porphyritic granodiorite. Mt. Wrightson quad., SC county (31° 37.05', 110° 55.75'). L-2, K%= 6.2, *Ar=96, #M73:40.

164.0 ± 8.0 ** # 1367
KA/biot/ash-flow tuff **San Tan Mtns. ash-flow tuff** Eberly and Stanley, 1978
San Tan Mtns. -- Age is too old. Tuff is probably Miocene. Magma quad., PN county (33° 7.53', 111° 39.23'). L-B, K%= 3.1, *Ar=79, #ES:04.

164.0 ± 7.0 # 1368
KA/biot/quartz monzonite **Mt. Benedict Quartz Monzonite** Marvin and others, 1973
Patagonia Mtns. -- Nogales quad., SC county (31° 24.50', 110° 55.50'). L-2, K%= 5.4, *Ar=96, #M73:57.

167.0 ± 6.0 # 1369
KA/biot/quartz monzonite **Huachuca Quartz Monzonite** Marvin and others, 1973
Huachuca Mtns. -- Montezuma Pass quad., CH county (31° 21.25', 110° 15.25'). L-2, K%= 6.2, *Ar=93, #M73:63.

167.0 ± 4.0 ** # 1370
KA/w.r./granite **Exxon State 14-1 granite** Shafiqullah and others, 1980
Palomas Plain -- Near Hyder. Drill chips from 771-777 m in Exxon State 14-1. Rb-Sr model age of 1080 million years on same sample reported by Eberly and Stanley (1978). Hyder NE quad., YU county (33° 8.00', 113° 21.00'). L-1, K%= 3.7, *Ar=94, #UAKA-72-57.

168.0 ± 19.0 # 1371
KA/horn/quartz monzonite **Mt. Benedict Quartz Monzonite** Marvin and others, 1973
Patagonia Mtns. -- Sample 66N454. Nogales quad., SC county (31° 24.50', 110° 55.50'). L-2, K%= 0.5, *Ar=59, #M73:57.

169.0 ± 10.0 ** # 1372
PB/uran/mineralization **Chinle Formation** Miller and Kulp, 1963
Cameron area -- Ore in Petrified Forest Member, lower Chinle Fm., Yazzie 102 mine. Ludwig and others (1986) suggest an age of 200-220 m.y. for the stratabound uranium deposits of the Colorado Plateau. Cameron quad., CN county (35° 47.51', 111° 21.40'). L-A, C-2, #K-151.
PB/PB = 676.0 ± 40.0 238U/PB = 169.0 ± 10.0 235U/PB = 205.0 ± 10.0 TH/PB = 0.0 ± 0.0

169.0 ± 6.0 # 1373
KA/biot/welded tuff **Canelo Hills Volcanics** Marvin and others, 1973
Huachuca Mtns. -- Crystal-rich, ash-flow tuff. Sample HH450. Huachuca Peak quad., CH county (31° 24.00', 110° 23.00'). L-2, K%= 7.0, *Ar=98, #M73:69.

171.0 ± 7.0 # 1374
KA/biot/granite **Juniper Flat Granite** Marvin and others, 1973
Mule Mtns. -- Western end of range. Also reported, in part, by Creasey and Kistler (1962). Tombstone quad., CH county (31° 30.17', 110°0.15'). L-9, K%= 5.5, #M73:98.

177.0 ± 8.0 # 1375
KA/biot/rhyolitic tuff **Canelo Hills Volcanics** Marvin and others, 1973
Canelo Hills. -- Crystal-rich, ash-flow tuff. Sample 62P4. Canelo Pass quad., SC county (31° 29.50', 110° 32.00'). L-2, K%= 5.6, *Ar=81, #M73:70.

182.0 ± 2.0 # 1376
SR/biot/granite **Juniper Flat Granite** Creasey and Kistler, 1962
Mule Mtns. -- Model age. Biotite from this unit yields a K-Ar age of 171 m.y. Age recalculated by Marvin and others (1973). 1 pt. Tombstone quad., CH county (31° 30.17', 110°0.15'). L-9, #C62:1.

183.0 ± 5.0 # 1377
KA/musc/quartz monzonite **Gleeson Quartz Monzonite** Marvin and others, 1973
Dragoon Mtns. -- Chemically similar to alaskite phase of pluton. Hay Mtn. quad., CH county (31° 44.00', 109° 52.50'). L-2, K%= 9.9, *Ar=99, #M73:94.

185.0 ± 4.0 # 1378
KA/biot/quartz monzonite **Gleeson Quartz Monzonite** Marvin and Cole, 1978
Dragoon Mtns. -- Biotite from main phase of pluton. Sample number listed in Marvin and others (1978) as 74D161. Pearce quad., CH county (31° 45.00', 109° 51.00'). L-2, K%= 6.3, *Ar=89, #74D102.

191.0 ± 0.0 ** # 1379
PB/gale/mineralization Cerbat Mtns. mineralization Mauger and others, 1965
Cerbat Mtns. — De La Fontaine Mine, Wallapai Mining District. 207Pb/206Pb model age indicates a component of Precambrian lead in the ores. Also reported in Russell and Farquhar (1960). Stockton Hill quad., MO county (35° 19.05', 114° 6.50'). L-A, C-2, #M65:1.

194.0 ± 4.0 # 1380
PB/zirc/quartz porphyry Ali Molina Formation Wright and others, 1981
Baboquivari Mtns. — Northern end of range. Upper-intersect discordia age on multiple fractions of zircon. Upper formation in a seven-km-thick composite section of early Jurassic age. Generalized lat-lon. No analytical data reported. Baboquivari Peak quad., PM county (31° 50.00', 111° 35.00'). L-3.

196.0 ± 4.1 # 1381
KA/w.r./volcanics Chinle Formation Peirce and others, 1985
Cameron area — Volcanic cobble from eroded surface of the Petrified Forest Member of the Chinle Formation. Generalized lat-lon. Analytical data not reported. Cameron quad., CN county (35° 53.96', 111° 24.14'). L-1, #UAKA-80-48.

203.0 ± 9.4 ** # 1382
KA/biot/gneiss Gila Mtns. gneiss Eberly and Stanley, 1978
Gila Mtns. (Yuma) -- East of Yuma. Date is interpreted as reduced age on Precambrian gneiss. Ligurta quad., YU county (32° 42.68', 114° 19.28'). L-B, K%= 6.6, *Ar=93, #ES:113.

210.0 ± 4.2 # 1383
KA/w.r./volcanic cobble Chinle Formation Peirce and others, 1985
Cameron area — Volcanic cobble from eroded surface of the Petrified Forest Member of the Chinle Formation. Generalized lat-lon. Analytical data not reported. Cameron quad., CN county (35° 53.96', 111° 24.14'). L-1, #UAKA-80-47.

222.2 ± 1.5 # 1384
KA/w.r./volcanic cobble Chinle Formation Peirce and others, 1985
Cameron area — Volcanic cobble from eroded surface of the Petrified Forest Member of the Chinle Formation. Generalized lat-lon. Analytical data not reported. Cameron quad., CN county (35° 53.96', 111° 24.14'). L-1, #UAKA-85-91.

222.8 ± 1.3 # 1385
KA/w.r./volcanic cobble Chinle Formation Peirce and others, 1985
Cameron area -- Volcanic cobble from eroded surface of the Petrified Forest Member of the Chinle Formation. Perhaps one of the first clearly Triassic isotopic dates from Arizona. Generalized lat-lon. Analytical data not reported. Cameron quad., CN county (35° 53.96', 111° 24.14'). L-1, #UAKA-85-90.

227.0 ± 25.0 ** # 1386
FT/sphe/granite xenolith Buell Park diatreme Naeser, 1971
Defiance Plateau — Xenolith from diatreme matrix which is itself intruded by minette dikes. Sphene age is an average of two analyses and reflects partial annealing. Buell Park quad., AP county (35° 53.50', 109° 6.30'). L-2, #BP2.

235.0 ± 2.3 ** # 1387
KA/biot/granodiorite Willow Spring Granodiorite Creasey, 1980
Globe-Miami area — Northwest of Inspiration. Date is reduced age on Precambrian pluton that probably correlates with Madera Diorite. Inspiration quad., GI county (33° 24.93', 110° 54.63'). L-3, K%= 7.1, *Ar=69, #C80:53.

236.0 ± 31.0 ** # 1388
SR/w.r./rhyolite pebbles Chinle Formation Dodge, 1973
Petrified Forest area -- Model age(?). Pebbles from Sonsela Sandstone Bed contained within the Petrified Forest Member of the Chinle Formation. Source area inferred to be to the south. Carrizo Butte quad., NA county (34° 55.50', 109° 54.50'). L-1.

245.0 ± 10.0 ** # 1389
KA/plag/dacite Gardner Canyon Fm. Damon and others, 1970
Santa Rita Mtns. — East of Cave Hill. Dacite flow interbedded with red beds. Date probably too old. Mt. Wrightson quad., SC county (31° 43.75', 110° 46.17'). L-1, K%= 0.2, *Ar=45, #PED-27-66.

291.0 ± 10.0 ** # 1390
KA/horn/quartz diorite Tortilla Quartz Diorite Banks and others, 1972
Ray area -- Porphyritic, hornblende-quartz-diorite facies of pluton. Date is too old due to excess argon. Teapot Mtn. quad., PN county (33° 9.15', 111° 1.70'). L-2, K%= 0.4, *Ar=94, #B72:07.

302.0 ± 4.0 ** # 1391
KA/biot/granite **Montezuma granite** Pushkar and Damon, 1974
Sierra Estrella — Southern end. Date reflects partial resetting of Precambrian granite. Montezuma Peak quad., PN county (33° 7.95', 112° 8.78'). L-1, K%= 7.8, *Ar=95, #PED-14-65.

304.0 ± 0.0 ** # 1392
KA/plag/granite **Schultze Granite** Livingston and others, 1967
Globe-Miami area — About 3 km west of Miami on U.S. Hwy. 60-70. Porphyritic phase. Date too old due to excess argon. Inspiration quad., GI county (33° 23.00', 110° 54.17'). L-1, K%= 0.3, *Ar=82, #PED-05-59.

304.0 ± 5.0 ** # 1393
KA/biot/granite **Montezuma granite** Pushkar and Damon, 1974
Sierra Estrella — South end. Date reflects partial resetting of Precambrian granite. Montezuma Peak quad., PN county (33° 7.95', 112° 8.78'). L-1, K%= 7.8, *Ar=97, #PED-14-65.

305.0 ± 4.0 ** # 1394
KA/biot/granite **Montezuma granite** Pushkar and Damon, 1974
Sierra Estrella — South end. Date reflects partial resetting of Precambrian pluton. Montezuma Peak quad., PN county (33° 7.95', 112° 8.78'). L-1, K%= 7.8, *Ar=83, #PED-14-65.

312.0 ± 5.0 ** # 1395
KA/biot/granitic gneiss **Poachie Range gneiss** Pushkar and Damon, 1974
Poachie Range — Date is reduced age on Precambrian gneiss. Arrastra Mtn. NE quad., MO county (34° 28.55', 113° 19.33'). L-1, K%= 6.6, *Ar=94, #PED-23-57.

325.0 ± 6.0 ** # 1396
KA/chlo/granitic gneiss **Pinaleno Mtns. gneiss (?)** Shafiqullah and others, 1980
Pinaleno Mtns. — From roadcut, State Route 226, 16 km east of Bonita. Date represents reduced age on Precambrian rock. Fort Grant quad., GM county (32° 34.62', 109° 50.72'). L-1, K%= 1.9, *Ar=99, #UAKA-60-12.

326.0 ± 15.7 ** # 1397
KA/biot/gneiss **Gila Mtns. gneiss** Eberly and Stanley, 1978
Gila Mtns. (Yuma) — Date is interpreted as reduced age on Precambrian gneiss. Ligurta quad., YU county (32° 39.76', 114° 18.97'). L-B, K%= 6.5, *Ar=74, #ES:113.

337.0 ± 5.0 ** # 1398
KA/biot/granitic gneiss **Poachie Range gneiss** Pushkar and Damon, 1974
Poachie Range — Date is reduced age on Precambrian gneiss. Arrastra Mtn. NE quad., MO county (34° 28.55', 113° 19.33'). L-1, K%= 6.6, *Ar=92, #PED-23-57.

361.0 ± 4.0 ** # 1399
KA/biot/quartz monzonite **Lost Gulch Quartz Monzonite** Creasey, 1980
Globe-Miami area — Near Copper Cities Mine. Date is reduced age on Precambrian pluton that probably correlates with Ruin Granite. Inspiration quad., GI county (33° 26.55', 110° 52.80'). L-3, K%= 7.7, *Ar=94, #C80:43.

387.0 ± 40.0 ** # 1400
FT/sphe/quartz monzonite xenolith **Garnet Ridge diatreme** Naeser, 1971
Chinle Valley — Xenolith from pipe 2 of the Garnet Ridge kimberlite diatreme complex. Sphene age reflects partial annealing. Dennehotso quad., AP county (36° 55.60', 109° 46.90'). L-2, #GR4.

480.0 ± 0.0 ** # 1401
SR/biot/schist **Yavapai Supergroup** Giletti and Damon, 1961
Prescott area -- About 8 km east on Hwy. 69 from junction of Hwys. 89 and 69. Model age. Reduced age. Prescott quad., YA county (34° 33.08', 112° 22.58'). L-A, #UAKA-57-04.

515.0 ± 5.0 ** # 1402
KA/biot/granodiorite **Willow Spring Granodiorite** Creasey, 1980
Globe-Miami area — Near Pinto Valley Mine. Date is reduced age on Precambrian pluton that probably correlates with Madera Diorite. Inspiration quad., GI county (33° 25.95', 110° 53.30'). L-3, K%= 7.5, *Ar=96, #C80:54.

573.0 ± 19.0 ** # 1403
KA/musc/alaskite-pegmatite **White Marble Mine pegmatite** Hardy, 1984
Harquahala Mtns. — White Marble Mine area. Proterozoic muscovite-bearing alaskite-pegmatite body 100-120 m above Harquahala thrust. Date is hybrid age reflecting partial resetting during Cretaceous (?) thrusting. Gladden quad., LP county (33° 47.04', 113° 24.37'). L-5, K%= 9.0, *Ar= 98, #83-11-8-3.