

EXP#17D07739 > 265-DFWJ-14 > Plagioclase > MCCLAUGHRY (15-17)
OREGON > DUFUR WEST
17-OSU-01 (1E17-17) > Incremental Heating > Dan Miggins

**Information on Analysis
and Constants Used in Calculations**

Project = **MCCLAUGHRY (15-17)**
Sample = **265-DFWJ-14**
Material = **Plagioclase**
Location = **Dufur West**
Region = **Oregon**
Analyst = **Dan Miggins**
Irradiation = **17-OSU-01 (1E17-17)**
Position = **X: 0 | Y: 0 | Z/H: 29.00979 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.64272 ± 0.01128**
FCT-NM J-value = **0.00162997 ± 0.00000191**
Air Shot 40Ar/36Ar = **302.5910 ± 0.2935**
Air Shot MDF = **0.99413386 ± 0.00062601 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = **Undefined**
Heating = **77 sec**
Isolation = **0.00 min**
Instrument = **ARGUS-VI-D**
Preferred Age = **Undefined**
Age Classification = **Undefined**
IGSN = **Undefined**
Rock Class = **Undefined**
Lithology = **Undefined**
Lat-Lon = **Undefined - Undefined**
Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **36Ar**
Decay 40K = **5.530 ± 0.048 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Decay 40K(EC,β⁺) = **0.580 ± 0.009 E-10 1/a**
Decay 40K(β⁻) = **4.950 ± 0.043 E-10 1/a**
Atmospheric 40/36(a) = **295.50**
Atmospheric 38/36(a) = **0.1869**
Production 39/37(ca) = **0.0006756 ± 0.0000089**
Production 38/37(ca) = **0.0000718 ± 0.0000092**
Production 36/37(ca) = **0.0002663 ± 0.0000004**
Production 40/39(k) = **0.003823 ± 0.000102**
Production 38/39(k) = **0.012031 ± 0.000019**
Production 36/38(cl) = **262.80 ± 1.71**
Scaling Ratio K/Ca = **0.430**
Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		1.25963 ± 0.00649 ± 0.52%	3.71 ± 0.02 ± 0.57%	1.45 12%	56.72 15	0.0472 ± 0.0021
		Full External Error ± 0.09 Analytical Error ± 0.02		1.76 1.2058	2σ Confidence Limit Error Magnification	
Total Fusion Age		1.28370 ± 0.00535 ± 0.42%	3.78 ± 0.02 ± 0.48%		31	0.0481 ± 0.0001
		Full External Error ± 0.09 Analytical Error ± 0.02				
Normal Isochron	294.07 ± 2.60 ± 0.88%	1.26159 ± 0.00823 ± 0.65%	3.71 ± 0.03 ± 0.69%	1.40 15%	56.72 15	
		Full External Error ± 0.09 Analytical Error ± 0.02		1.78 1.1812	2σ Confidence Limit Error Magnification	
Inverse Isochron	293.96 ± 2.61 ± 0.89%	1.26276 ± 0.00828 ± 0.66%	3.72 ± 0.03 ± 0.70%	1.42 14%	56.72 15	
		Full External Error ± 0.09 Analytical Error ± 0.02		1.78 1.1905	2σ Confidence Limit Error Magnification	
				61%	Spreading Factor	

