

Biotite, Washington R.I. DRW N3

	<u>reported</u>		<u>probe, av</u>	σ (N=14)	
SiO ₂	36.12		36.25	(0.68)	35.71
Al ₂ O ₃	18.60		16.63	(0.59)	14.27
Fe ₂ O ₃		(1.68)			
FeO	19.57	(18.06)	19.33	(0.51)	15.21
MnO	0.27		0.27	(0.05)	0.27
MgO	9.91		9.88	(0.44)	10.27
CaO	0.18		0.05	(0.03)	0.03
Na ₂ O	0.28		0.04	(0.04)	0.06
K ₂ O	8.79		9.37	(0.36)	9.67
TiO ₂	2.43		2.89	(0.43)	0.47
P ₂ O ₅					0.01
H ₂ O ⁻	0.02				
H ₂ O ⁺	2.81		3.57*	(0.04)	3.51
Cl	0.23		0.12	(0.03)	0.17
F	0.76		0.66	(0.15)	0.73
BaO	0.22		0.22	(0.08)	0.04
SrO			0.03		0.03
Li ₂ O	<u>0.04</u>		<u> </u>		<u> </u>
	100.40		99.35		100.9
O=F+Cl	<u>0.30</u>		<u>0.31</u>		<u>0.31</u>
	100.10		98.99		98.54

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
LABORATORY REPORT

REPORT NO. 72-WO-6	FOR	David R. Wones	DATE	May 4, 1972
JOB NO. 10,831	PROJECT OR ORGANIZATION	Orland Quad., Maine	Geochem. and Geophysics -	
LOT NO. 37-009	REFER TO OTHER REPORTS	EG and M - 7125	72-WO-15	

Biotite from Washington, Rhode Island
Field No. "N-1B" - Lab. No. W-177227

SiO ₂	3	36.12%
Al ₂ O ₃		18.60
Fe ₂ O ₃		1.68
FeO		18.06
TiO ₂		2.43
MnO		0.27
BaO		0.22
CaO		0.18
MgO		9.91
Na ₂ O		0.28
K ₂ O		8.79
Li ₂ O		0.04
H ₂ O -110°C		0.02
H ₂ O +110°C		2.81
Cl		0.23
F		0.76
		<u>100.40</u>
Oxygen correction		0.30
		<u>100.10</u>

FeO = 19.24

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MAY 8 1972

Experimental Geochemistry
And Mineralogy Branch

Specific gravity at 25°C 3.080

α 1.617
β 1.652 ± 0.002
γ 1.652

cc: R. V. Mendes
H. Bastron
W. G. Schlecht

BY Analytical Services & Research, Wash, DC

Analyst: Joseph J. Fahey

Joseph J. Fahey

APPROVED:

Thomas J. ...
Liaison Officer
Analytical Laboratories Br.

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Biotite from Washington, Rhode Island

Field No. "N-4B" - Lab. No. W-177227

SiO ₂	36.12%
Al ₂ O ₃	18.60
Fe ₂ O ₃	1.68
FeO	18.06
TiO ₂	2.43
MnO	0.27
BaO	0.22
CaO	0.18
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Joseph J. Fahey Liaison Officer
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Biotite from Washington, Rhode Island

Field No. "N-45" - Lab. No. W-177227

SiO ₂	3	36.12%
Al ₂ O ₃		18.60
Fe ₂ O ₃		1.68
FeO		18.06
TiO ₂		2.43
MnO		0.27
BaO		0.22
CaO		0.18
MgO		9.91
Na ₂ O		0.28
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Li ₂ O		0.04
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Cl		0.23
F		0.76
		<u>100.40</u>
Oxygen correction		0.30
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Experimental Geochemistry
And Mineralogy Branch

Naragansett Pier
Granite
Split

Specific gravity at 25°C 3.080

α 1.617
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γ 1.652

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BY Analytical Services & Research, Wash, DC APPROVED: *Joseph J. Fahey*
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