

Table 2.--Chemical analyses (weight percent) of plutonic rocks,

West Warren area, Massachusetts

[Samples analyzed by methods described by Shapiro and Brannock, 1962.

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	H ₁ (252)	H ₂ (135)	H ₄ (91)	H ₅ (2737)	H ₆ (2742)	H ₇ (2619a)
	W176859	W176860	W176862	W176863	W176864	W178276
SiO ₂	51.9	53.0	50.5	54.3	55.8	44.6
Al ₂ O ₃	17.1	17.4	18.9	20.2	18.6	15.4
Fe ₂ O ₃	1.1	1.5	1.8	.57	1.2	1.0
FeO	9.2	6.1	6.9	6.3	6.1	13.0
MgO	4.6	6.2	5.0	2.1	1.8	5.0
CaO	7.7	8.7	9.4	7.2	7.1	10.9
Na ₂ O	3.2	3.1	3.7	4.9	4.1	2.4
K ₂ O	.62	.86	.93	.50	1.1	.41
H ₂ O ⁺	.70	.86	.88	.88	.81	.58
H ₂ O ⁻	.16	.14	.09	.07	.07	.11
TiO ₂	2.6	.90	.28	1.5	1.5	4.0
P ₂ O ₅	.57	.52	.46	.85	1.1	.73
MnO	.23	.17	.16	.12	.14	.26
CO ₂	<.05	<.05	<.05	<.05	.30	.30
Sum	100	99	99	99	100	99

Normative minerals

quartz	4.59	3.23	---	3.85	10.16	---	
corundum	---	---	---	0.66	1.09	---	
orthoclase	3.67	5.11	5.55	2.97	6.52	2.45	
albite	27.15	26.36	31.61	41.65	34.79	20.58	
anorthite	30.55	31.18	32.52	29.99	26.21	30.43	
diopside	wollastonite	1.55	3.53	4.68	---	---	7.35
	enstatite	.74	2.13	2.41	---	---	3.12
	ferrosilite	.78	1.21	2.14	---	---	4.24
hypersthene	enstatite	10.75	13.39	3.38	5.25	4.50	4.81
	ferrosilite	11.37	7.62	2.99	8.89	8.01	6.54
olivine	forsterite	---	---	4.75	---	---	3.28
	fayalite	---	---	4.63	---	---	4.92
magnetite	1.60	2.19	2.63	0.83	1.74	1.47	
ilmenite	4.95	1.72	0.54	2.86	2.86	7.70	
apatite	1.35	1.24	1.10	2.02	2.61	1.76	
calcite	0.11	0.11	0.11	0.11	0.68	0.69	
Sum	99.16	99.02	99.04	99.08	99.17	99.34	
(Salic)	(65.96)	(65.88)	(69.68)	(79.12)	(78.76)	(53.47)	
(Femic)	(33.20)	(33.14)	(29.36)	(19.96)	(20.41)	(45.87)	