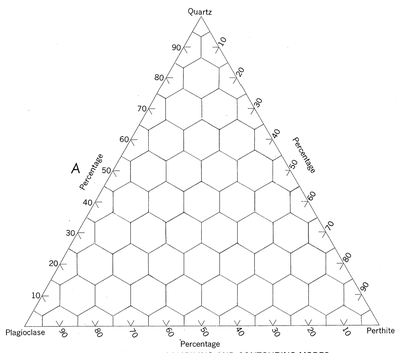
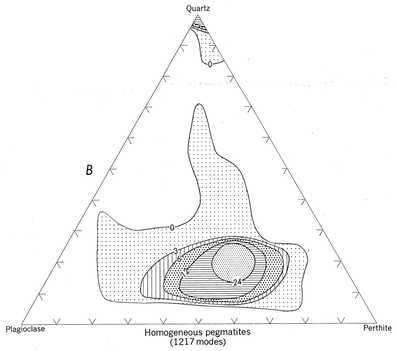
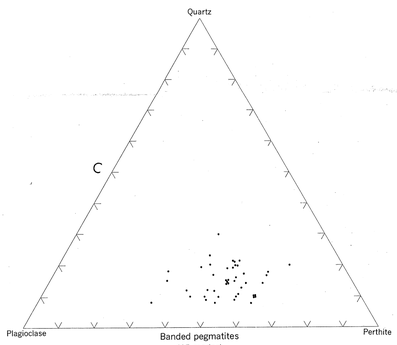


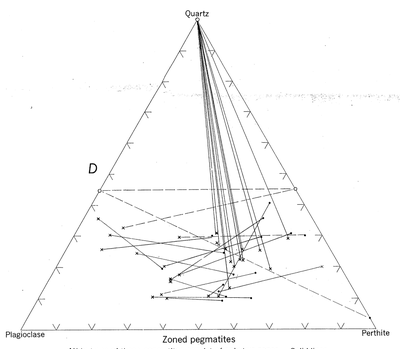
DIAGRAM USED IN COMPILING AND CONTOURING MODES
See text for description of how this diagram is applied



Homogeneous pegmatites
(1217 modes)

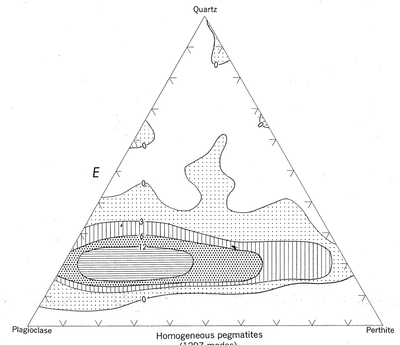


Banded pegmatites
(45 modes)

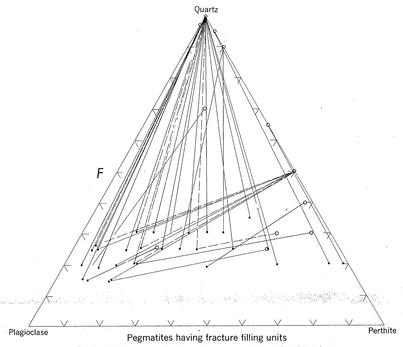


Zoned pegmatites
All but one of these pegmatites consist of only two zones. Solid lines connect the wall zone, signified by x, and the core, signified by a dot. The dashed line is for a pegmatite that contains two intermediate zones, shown by circles, in addition to the wall zone and core

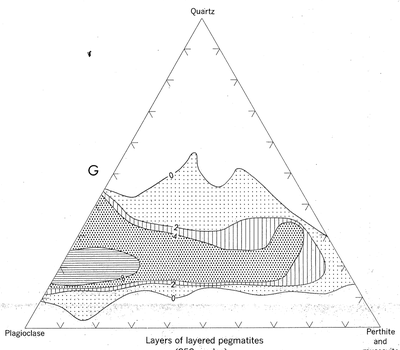
MODES OF PEGMATITES IN THE CRYSTAL MOUNTAIN DISTRICT



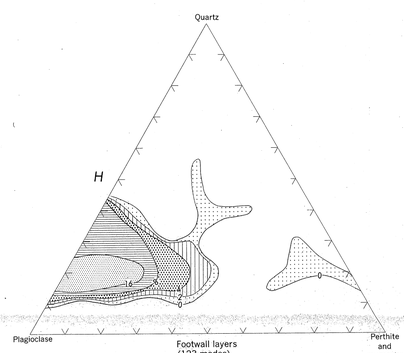
Homogeneous pegmatites
(1297 modes)



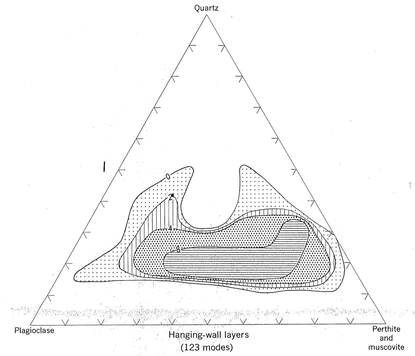
Pegmatites having fracture filling units
The lines connect the mode of the main body of pegmatite, shown by a dot, with the mode of its fracture fillings, shown by circles. Dashed tie lines are used for pegmatites that have two fracture fillings of different composition



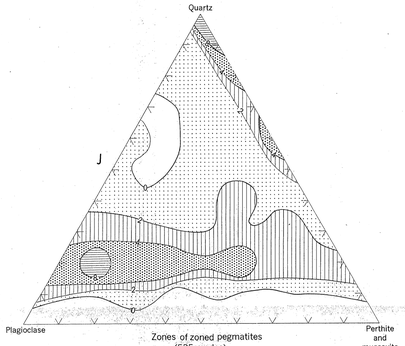
Layers of layered pegmatites
(252 modes)



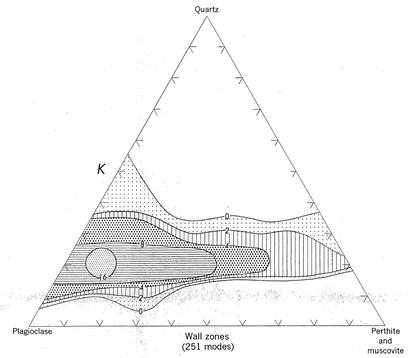
Footwall layers
(123 modes)



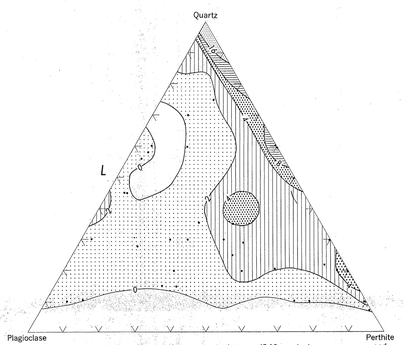
Hanging-wall layers
(123 modes)



Zones of zoned pegmatites
(535 modes)

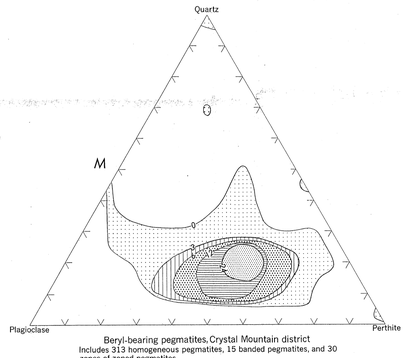


Wall zones
(251 modes)

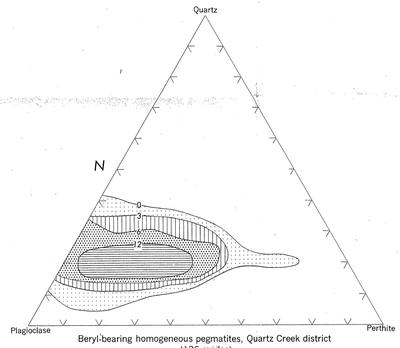


Intermediate zones (35 modes) and cores (249 modes)
The intermediate zones are also shown by point

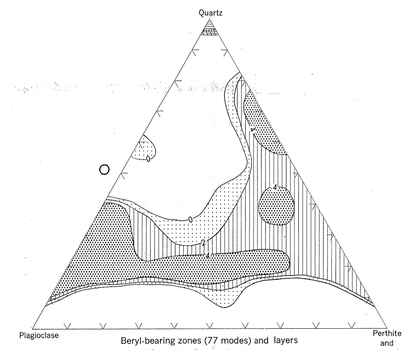
MODES OF PEGMATITES IN THE QUARTZ CREEK DISTRICT



Beryl-bearing pegmatites, Crystal Mountain district
Includes 313 homogeneous pegmatites, 15 banded pegmatites, and 30 zones of zoned pegmatites.

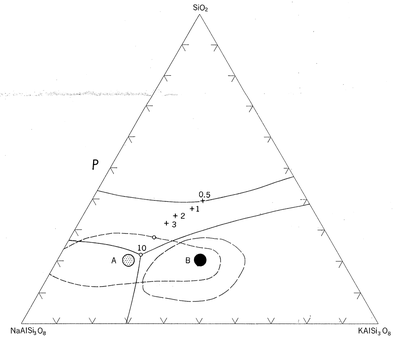


Beryl-bearing homogeneous pegmatites, Quartz Creek district
(136 modes)



Beryl-bearing zones (77 modes) and layers
(19 modes), Quartz Creek district

MODES OF BERYL-BEARING PEGMATITES



BULK COMPOSITION OF PEGMATITES AND CHARACTERISTICS OF THE GRANITE SYSTEM
The isobaric minimum (plus signs) and isobaric eutectic (circles) at several values of P_{H_2O}, labeled in kilobars, and the field boundaries shown at 0.5 and 10 kilobars are from Luth, Jahns, and Tuttle (1964 fig. 4). Estimated average composition of pegmatites in the Quartz Creek district, Colorado, is at A, and in the Crystal Mountain district, Colorado, at B. The short-dashed line around A and the long-dashed line around B are equivalent to the 6 percent contour on the diagrams for the homogeneous pegmatites of these districts. In each instance about 70 percent of the modes are within the line

CONTOURS ARE IN PERCENT PER 2 PERCENT AREA

TERNARY DIAGRAMS OF QUARTZ AND FELDSPAR CONTENT OF SOME PEGMATITES IN COLORADO

226 - 206 O - 66 (In pocket)