

ROUGH DRAFT - November 15, 1956

J. Roth

Sub: Quarterly Progress Report, July, August, September, 1956

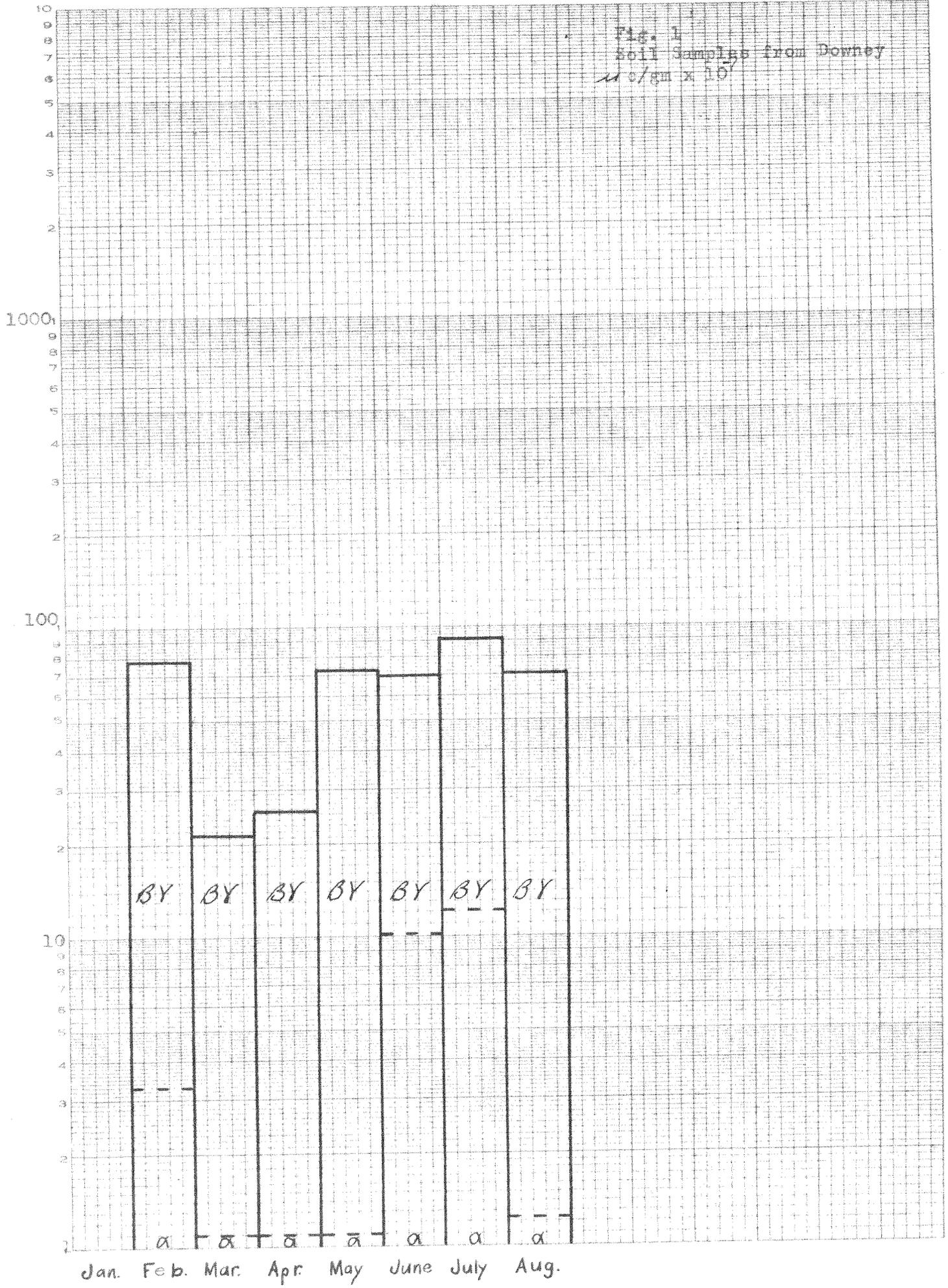
Environmental Surveys

One hundred and twelve soil samples, 112 vegetation samples, and nine water samples were collected and analyzed for radioactivity during the third quarter of 1956. The sampling stations are the same locations as stated in previous reports with the exception of the Santa Susana survey, which has an additional station. This station is designated station 12, and is located at the KEWB cooling water discharge point. The purpose of station 12 is to measure any increase in the environmental activity due to radioactivity in the KEWB cooling water. The monthly average activities in each area are ~~are~~ illustrated by figures 1 through 10.

The water samples were taken from the ponds at stations six and nine and also from wells seven and eleven. The maximum activity in the water was 2.91×10^{-9} $\mu\text{c}/\text{cc}$ of alpha activity and 2.52×10^7 $\mu\text{c}/\text{cc}$ of beta-gamma activity.

An air sampler was in continuous operation at Vanowen during this quarter. The results are shown on figures 11 and 12. Abnormally high activity was encountered during the last ^{half} of September. Decay curves on this activity will be presented in the fourth quarter progress report.

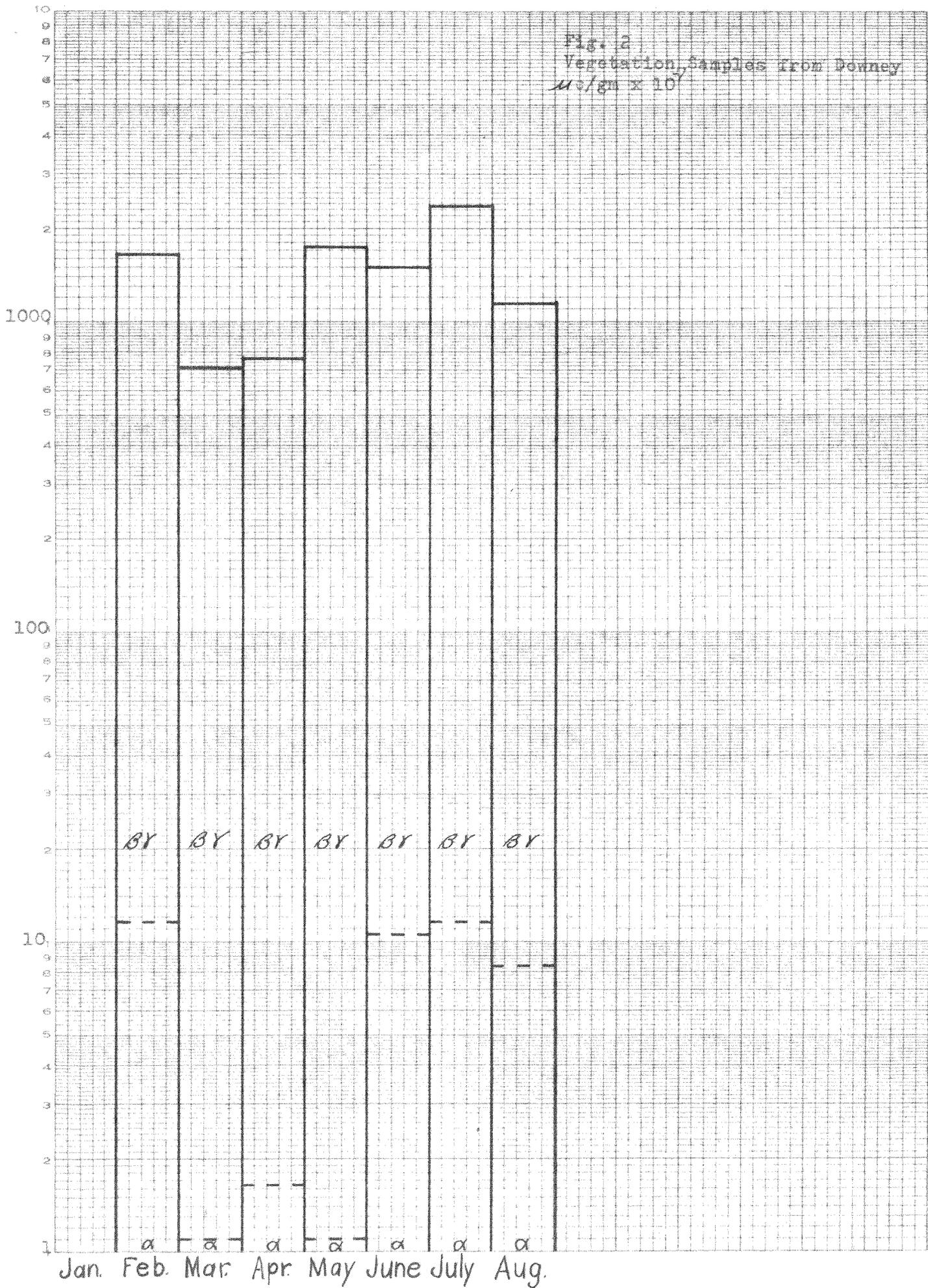
Fig. 1
Soil Samples from Downey
 $\mu\text{c/gm} \times 10^7$



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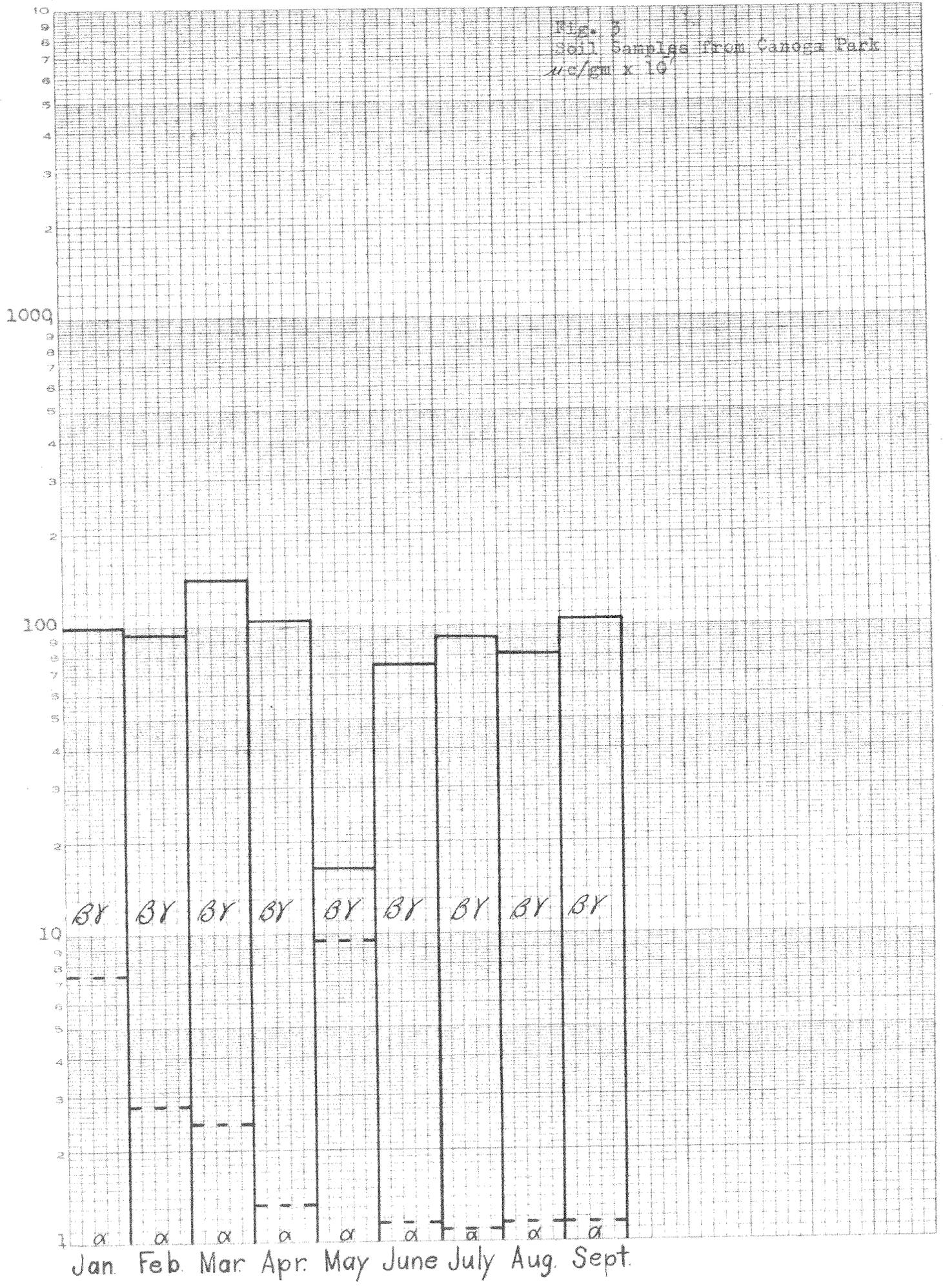
Fig. 2
 Vegetation Samples from Downey
 $\mu/gm \times 10^4$



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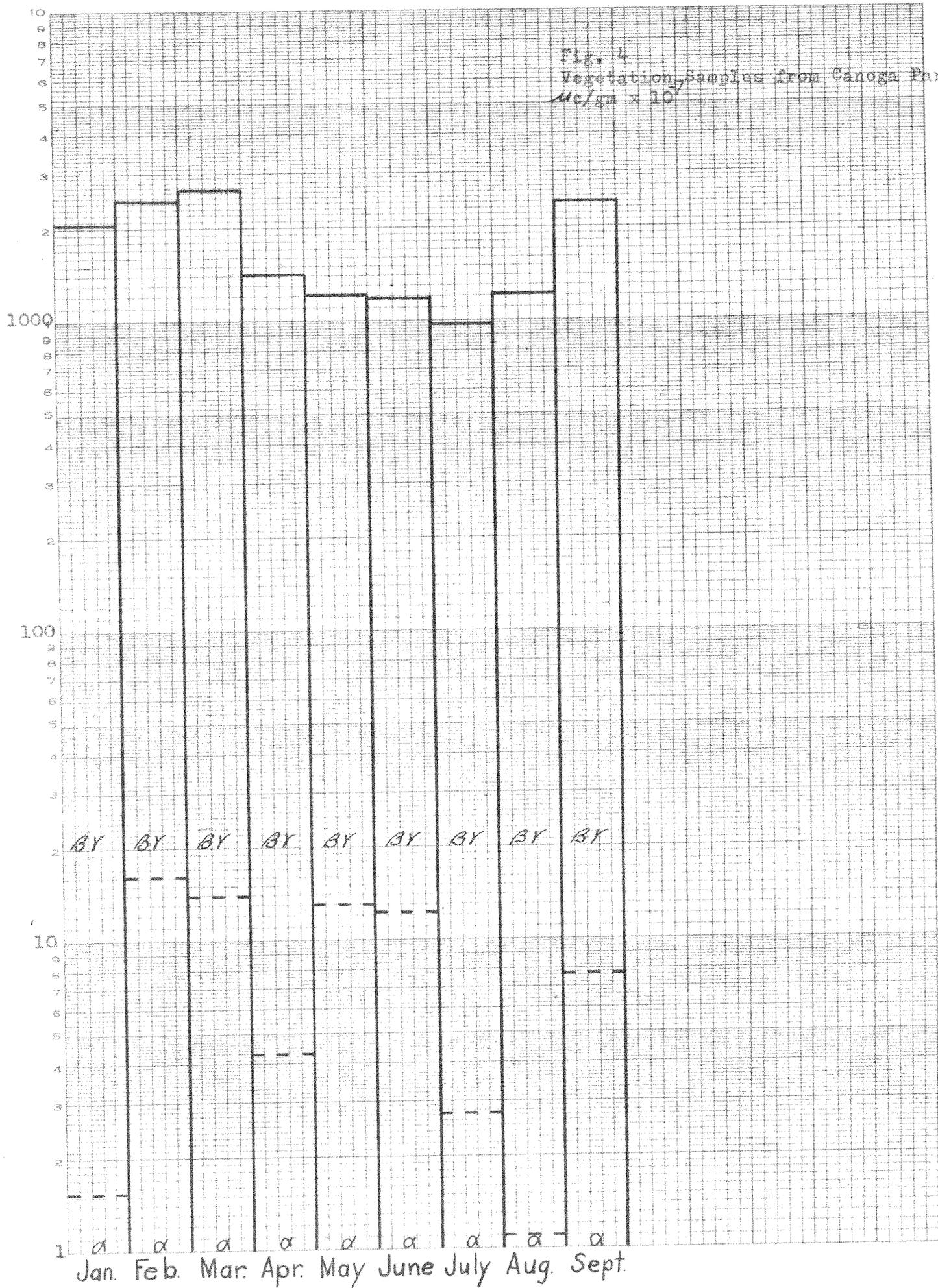
Fig. 2
Soil Samples from Canoga Park
 $\mu\text{c/gm} \times 10^4$



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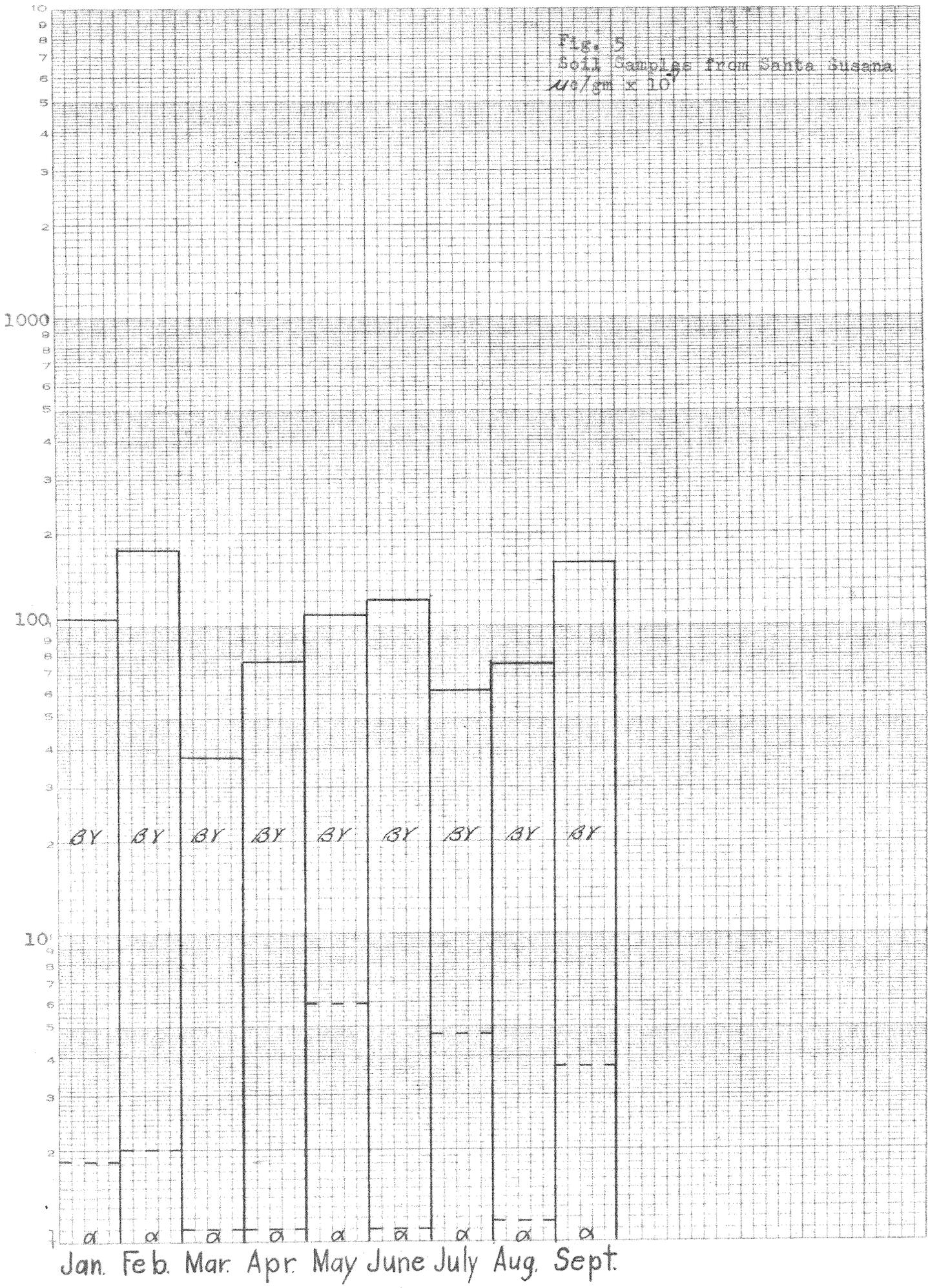
Fig. 4
Vegetation Samples from Canoga Park
Mc/ga x 10



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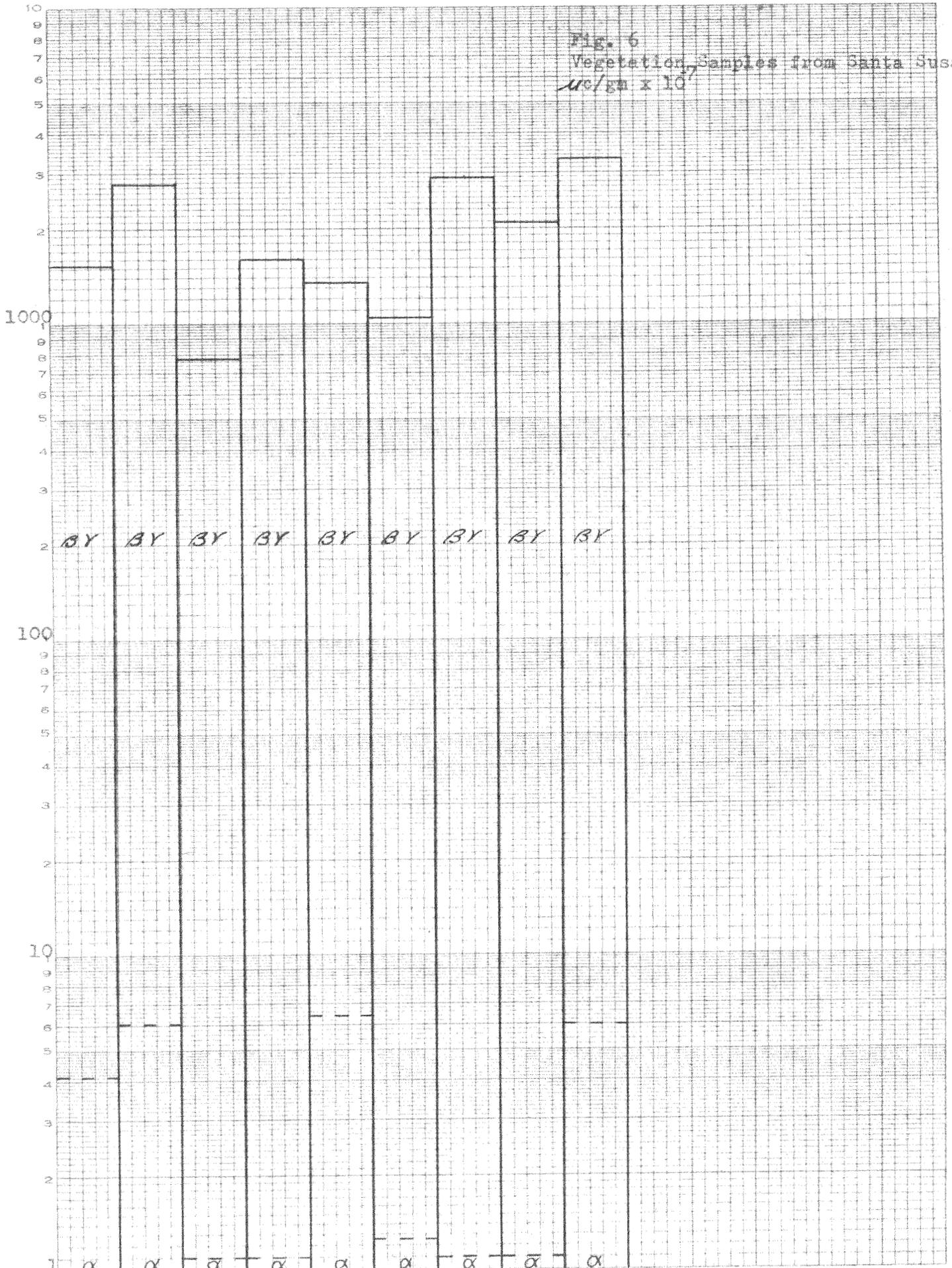
Fig. 5
Soil Samples from Santa Susana
 $\mu\text{e/gm} \times 10^4$



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Fig. 6
Vegetation Samples from Santa Susana
 $\mu\text{c/gm} \times 10^7$

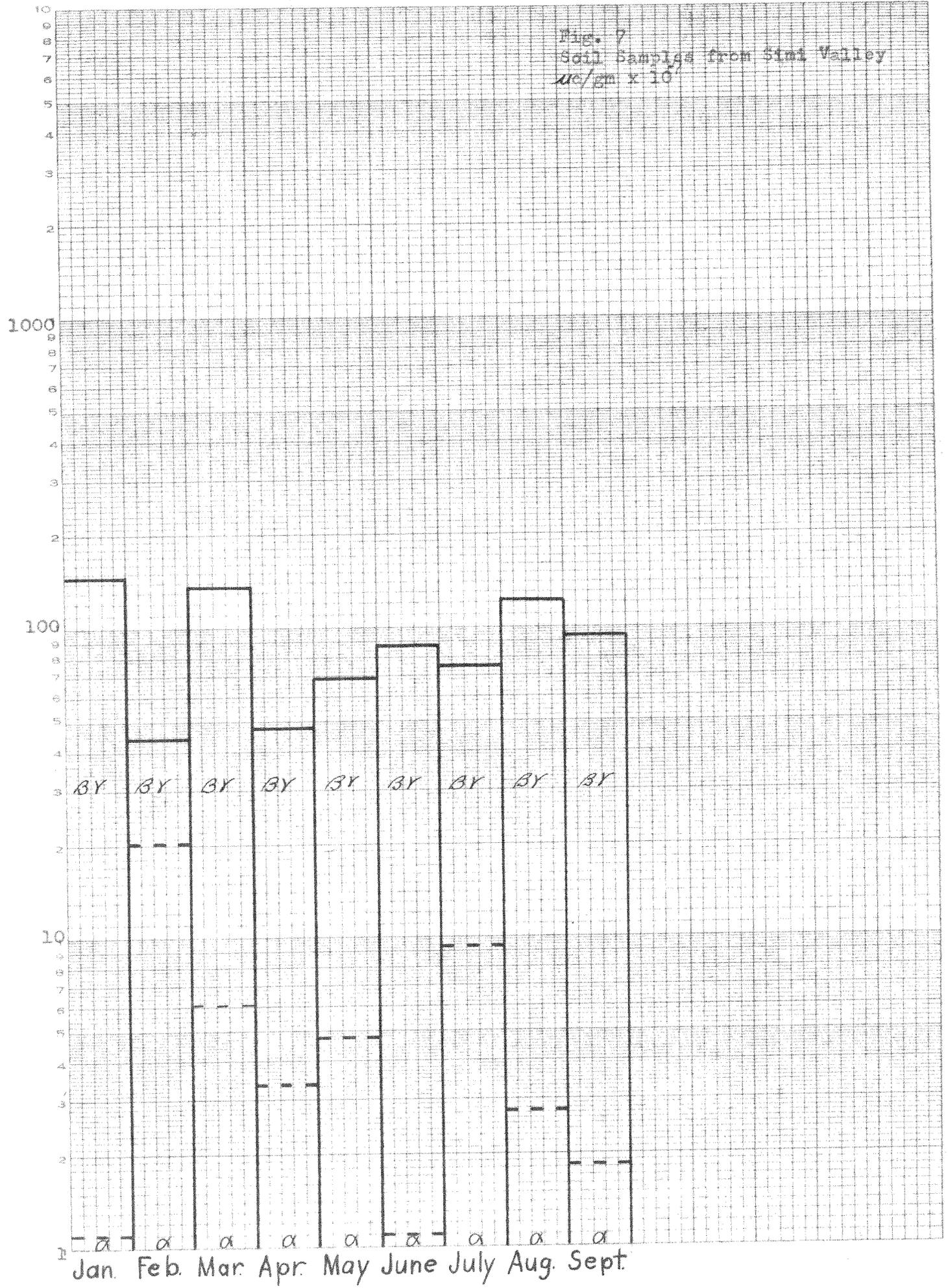


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Fig. 7
Soil Samples from Simi Valley
 $\mu\text{c/gm} \times 10^4$



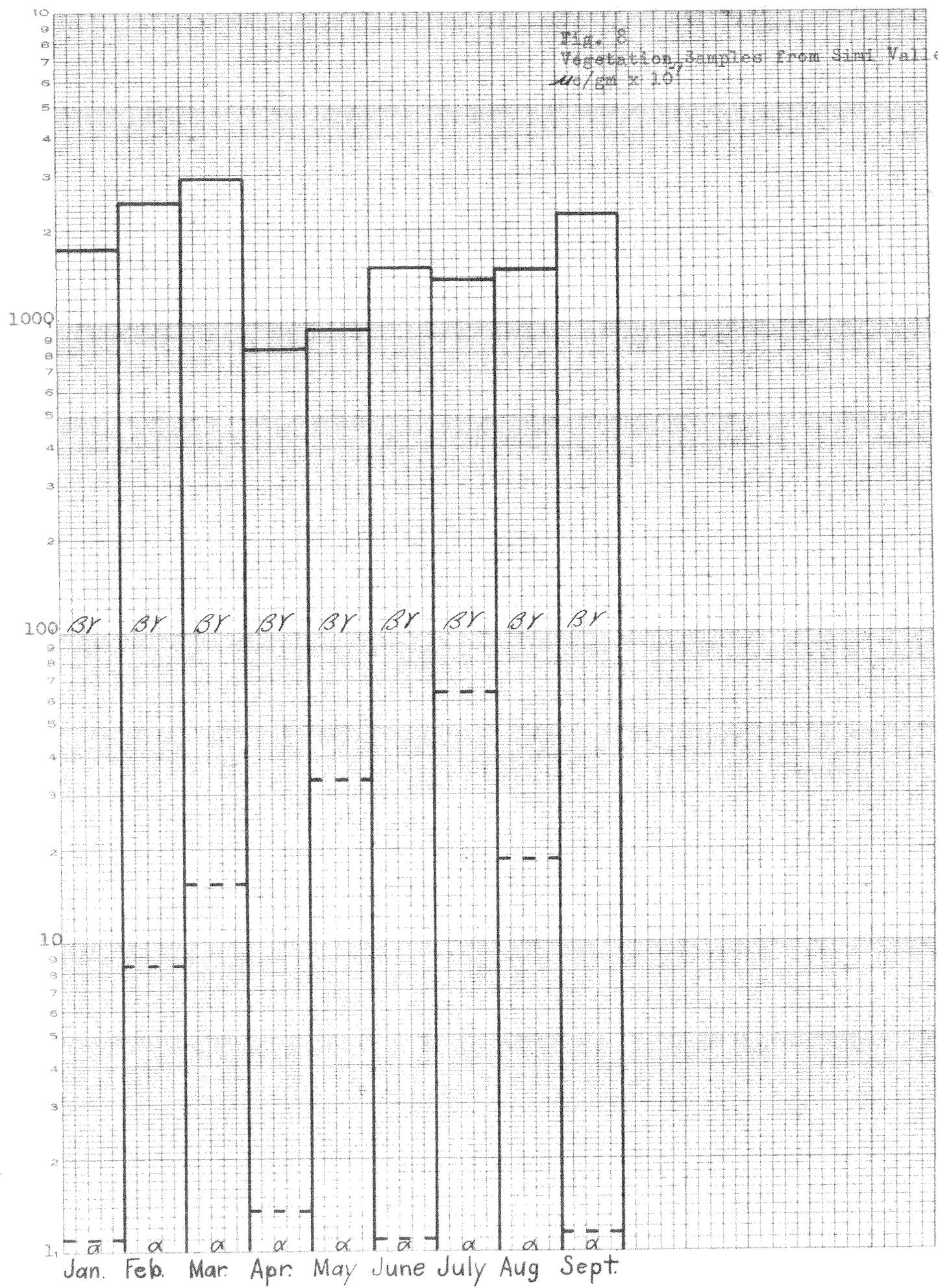
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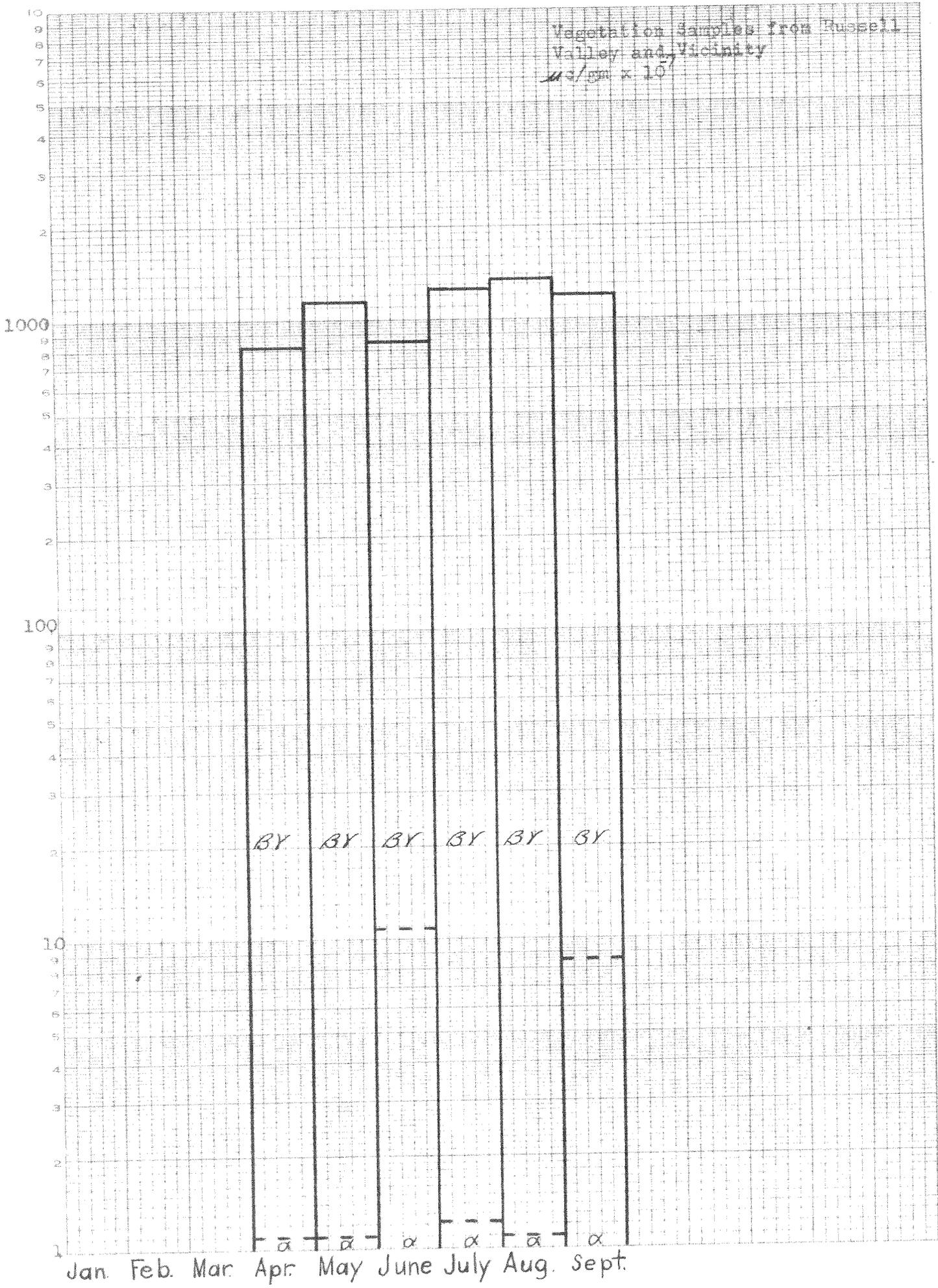
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Fig. 8
Vegetation Samples from Simi Valley
 $\mu\text{c/gm} \times 10^7$



Vegetation Samples from Russell
Valley and Vicinity
 $\mu\text{g/gm} \times 10^5$



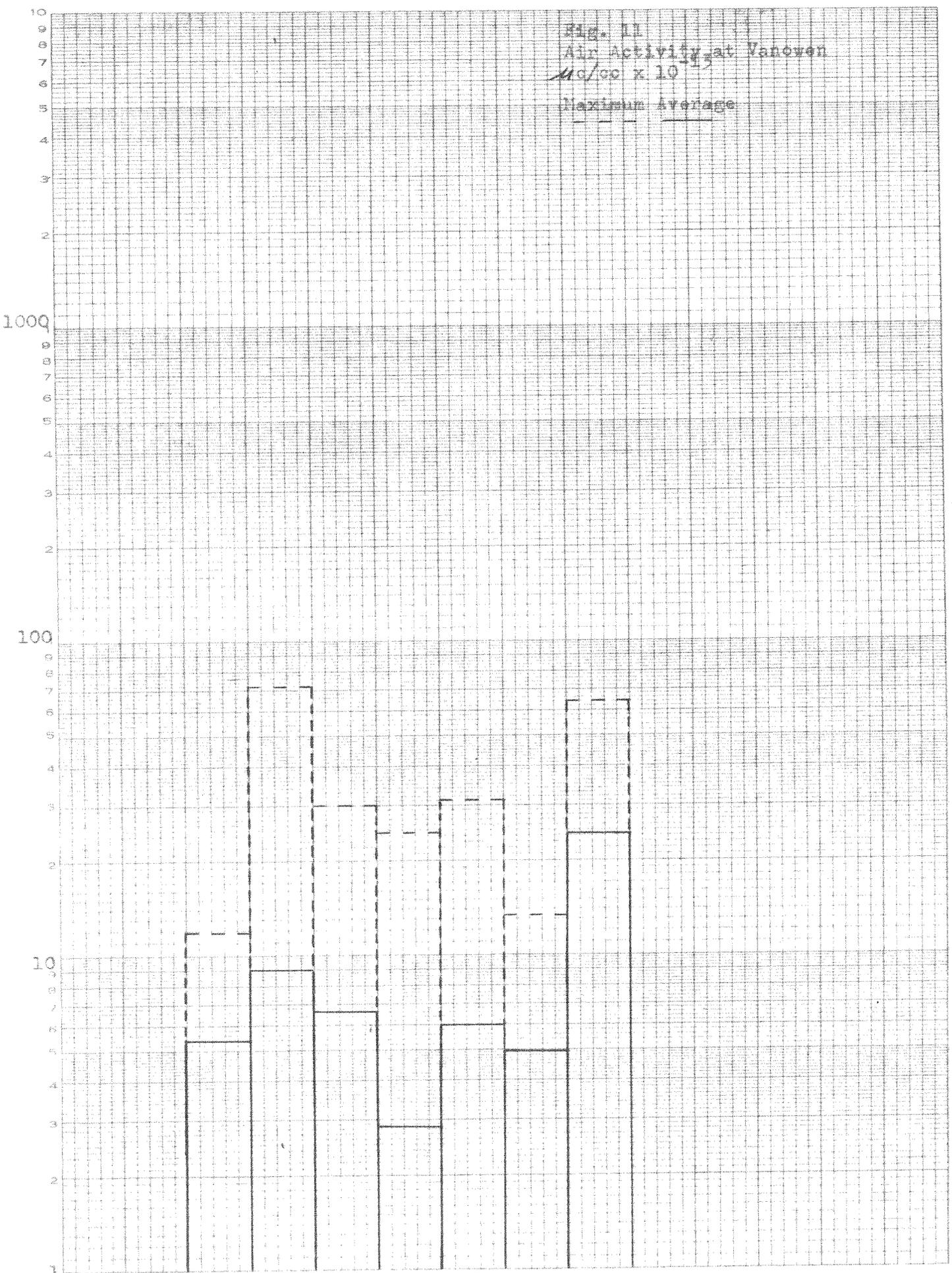
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Fig. 11
Air Activity at Vanowen
 $\mu\text{c/cc} \times 10^3$
Maximum Average



Jan. Feb. Mar. Apr. May June July Aug. Sept.

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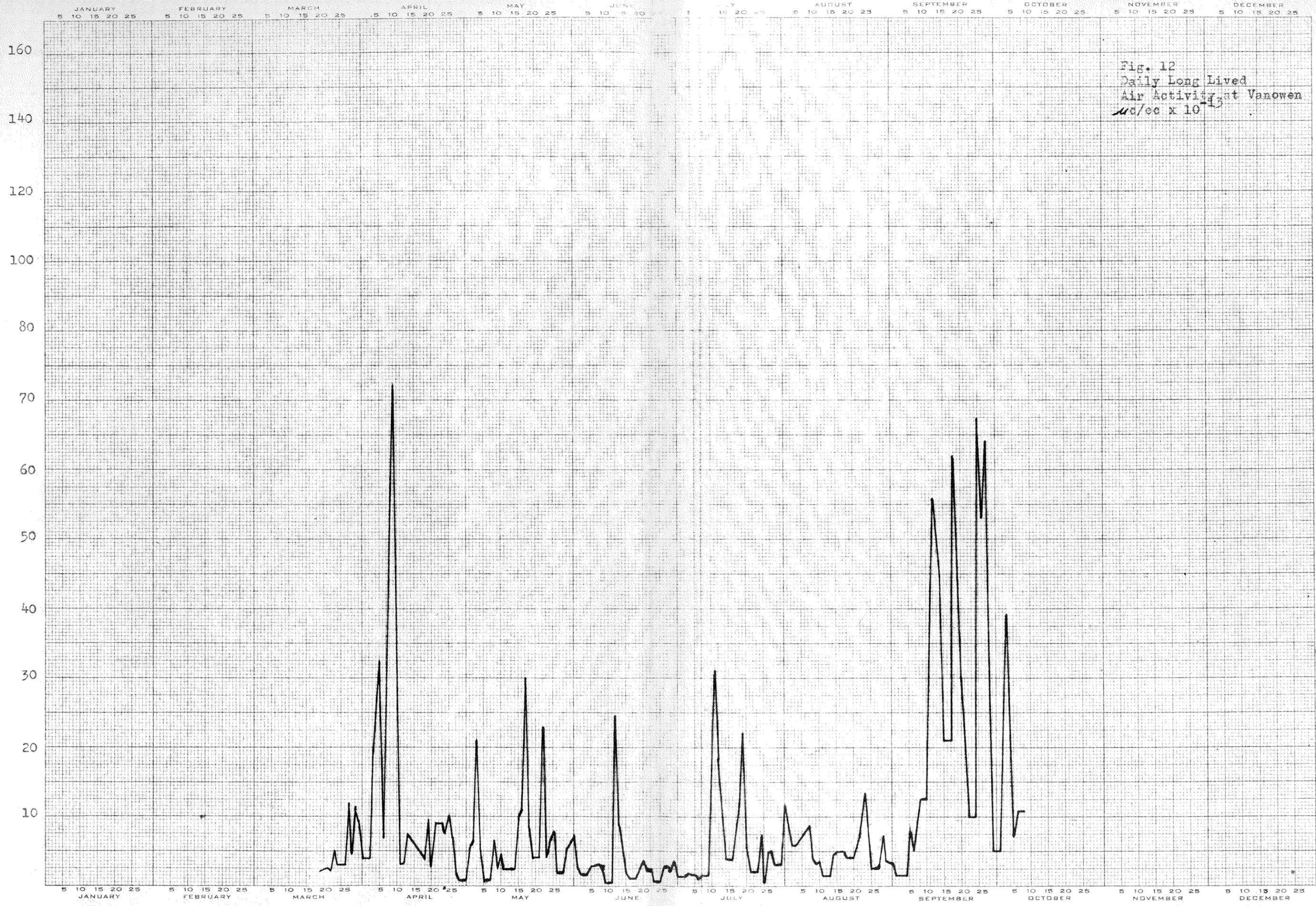


Fig. 12
Daily Long Lived
Air Activity at Vanowen
mc/cc x 10⁻¹³