

19 Apr 54

AMS

403034

Dear Frank

Enclosed are 6 Thyroids from pre shot collections and one from Rongelap.

They have been prepared as follows:

Wet weight taken.

Approx 1mg Kd carrier sol added (1 drop)

" " NaOH Base sol " (1 drop)

Air dried for 24 hours

Heat lamp for 1 hour.

The thyroids are in the center of the plate and should be counted as a point source rather than spread over a large area. Previous experience shows this factor to be about 1.43 times the same activity spread over a 1 1/2" plate.

We have counted these thyroids here but the counter has not been calibrated, nor is the geometry, window thickness, etc. known. If you can count these plates there with ~~the~~ known factors, it will be appreciated.

Counts obtained here were:

Shelf 1 Date 17 APR 54

Sample 7257 C/W. 15,62

Sample no.

ABOVE C/M BACKGROUND

7251

1146

7252

2860

7253

132

7254

153

↑
Rongelap

Enclosed also is the decay curve on the Rongelap Curlew. ^{thyroid.} It would seem to indicate Iodine ¹³¹; 8.2 day half life.

I will appreciate any suggestions you may have regarding our rat program. Things are going fairly well but trap percentages of catch could be increased especially at Engebi. There are hundreds of rats there but there seems to be plenty of food to eat too so they don't pay any attention to our bait. I am attempting to feed them now and hope they will learn to hunt for our bait.

yours

Charlie Barnes