2 minutes. The percentages of moisture are given in Table VI.

	TABLE	V1	PRECE	PRECENTAGES O		€₽₽	P MECENTERIE			
Mesh	screen		Vacuum	15	mar.		Centrifu	gal	2 mit	4
	544		7	50			2	56		
	7984		7	11			2	.55		

The marked efficiency of the centrifugal is noteworthy and the method of procedure was altered to show this more forcildy.

Sand was placed in the Buchner funnel, wetted and vacuum applied for 5 minutes. After sampling, the sand was placed while still moist, in the centrifugal which was then run for 2 minutes at 2000 r. p. m. Table VH shows the percentages of moisture.

TABLE V	UI-PRECENTAGES Vacuum 5 min.	OF MOISTURE Centrifugal 2 min
111	17.25	2 26 2 20
411	17.50	1 93
50	18 70	2.56 2.80
644	19 39 18 40	2 36
2014	19 70	2 49

It is seen from the above results, that the moisture content under vacuum varies inversely as the diameter of the grains; the moisture content after centrifuging, however, is nearly the same for the finer as it is for the coarser sands.

The distribution of the water at several points in the annulus of sand was also investigated and Table VIII presents the results in percentage of moisture.

TABLE	VIII -	PERCENTAGE OF MOIST	UWE
		Distance from center of	husket
Mesh Screen	- 1/s"	1*	14/8
40	2.9	2.72	2.43
50	3.0	2.90	2.76

The variation, while sufficient to permit measurement, is small and might be neglected for practical purposes.

The objection may be raised that these results, obtained in the laboratory with a small centrifugal, are of little value for comparison with the larger machines used in the factory. While with the hand centrifugal, the diameter is small, the speed is high, and we have calculated that a weight of 1 lb. revolving at a 2 inch radius at 2000 r. p. m. is subjected to practically the same centrifugal force as a weight of 1 lb. revolving at a radius of 12 inches at 600 r. p. m. The comparison is, therefore, justifiable and a good idea of the behavior of a moist mass when centrifuged in