

TABLE NO. XXVII. WEIGHT OF LIME IN CHICK AT DIFFERENT PERIODS OF INCUBATION—Continued.

No. of Egg.	Name of Incubator.	Treatment.	Period of Incubation.	Total Lime (CaO) in contents.	Remarks.
57	Prairie State	Dry .....	20 days	.1950	
476	"	" .....	20 "	.1817	
693	"	" .....	20 "	.1717	
157	"	" .....	20 "	.1792	
476	"	Artificial CO <sub>2</sub> , H <sub>2</sub> O used as moisture .....	20 "	.2150	
502	"	" .....	20 "	.2262	
311	"	" .....	20 "	.2162	
662	"	" .....	20 "	.1647	
157	"	" .....	20 "	.1982	
84	"	" .....	20 "	.1727	
195	"	Disinfected with Zenoleum, H <sub>2</sub> O used as moisture ....	20 "	.2175	
520	"	" .....	20 "	.2070	
476	"	" .....	20 "	.1955	
590	"	" .....	20 "	.2062	
311	"	" .....	20 "	.2142	
93	"	" .....	20 "	.2052	
662	Hen	.....	20 "	.2330	
662	"	.....	20 "	.2327	
157	"	.....	20 "	.1560	
93	"	.....	20 "	.1592	
476	"	.....	20 "	.2065	
590	"	.....	20 "	.1832	
311	"	.....	20 "	.2010	
164	"	.....	20 "	.2175	
84	"	.....	20 "	.1787	
613	"	.....	20 "	.2152	
613	"	.....	20 "	.2280	

As each chick was taken from the shell notes were made on its apparent strength. It will be observed that in every case where the chick was marked as "weak" there was a very low absorption of lime, and where it was noted as being unusually strong, there was a large absorption. In this case only decided differences in appearance were noted, but in view of the above result more careful notes will be made in future work. In this connection it may be noted that the lime content of the chicks of the June hatch is lower than that of the July hatch, and Mr. Graham of the Poultry department reports that the chicks of the former month were inferior in vitality.

It is very probable that there is a vital force in the egg which imparts vitality to the chick. For instance, egg No. 360 in nearly every case produced a chick with a high lime content, and egg No. 40 in every case gave a chick with a low lime content, and three of them were noted as being unusually weak.

It is a to do with the chick. exception, well; while were lamp

From quite evident and comparison of incubation to have the June and July series of eggs other word

The for content of the of carbon in chicks as in weeks. In below .1600 less than the

TABLE NO. XX

Cyphers, dry.  
Peerless, dry,  
Continuous Ha  
Hen .....

Model, buttern  
Prairie State, l  
Prairie State, d  
Prairie State, a  
moisture ....  
Prairie State, m  
Hen .....

Average of hen

\*All eggs tu