necessity of covering up carefully all concrete and coment works exposed for any length of time to dry sir and sun. The bad effect of these agents is plainly demonstrated, and it is doubtful whether much strength would ultimately have been recovered.

It is also interesting to notice the results obtained by the concretes made of 1 part of cement, 2 of sand and 5 of stones, and 1 cement, 2 sand and 6 of stones. The specimens of these compositions gave results equal to concretes, 1, 2, 4, showing that for strength they are as good as the ones containing a less proportion of stones, while being much more economical.

These experiments are as yet very incomplete. But it is hoped that the researches in this subject will be continued, and that valuable information for the engineer in practice derived from them.

Proportic		TESTS-COMPR : 1 part ceme		4 stone.
	• •	trength per squa		
Per cent. of water by weight of ce- ment and sand,	1 week. comp. tests.	4 weeks.	2 mos.	Average weight of sp. per c. f.
16	792	677	382	141.5
18	653	679	507	143.0
20	746	626	507	139.5
22	620	615	670	139.5
24	679	542	559	141.5
*26	362	545	500	141.2
28	326	340 ;	823	138.0
30	245	331	361	135.5
Proportio	on by weight:	l cement, 2	sand, 5 stor	ne.
20		703		
	1 cem	ent, 2 sand, 6	stone.	
20		728		
	CEMENT	AND SAND TES	T S.	
Proportion	s: 1 cement,	2 sand.		
10	825	80	0	1822
12	800	131	.1	1666
14	750	100	0	1100
*16	475	138	9	1777
18	395	111	0	1266
20	400	91		1633
22	330	84	4	1233
24	388	04		1230
26	000		_	1000
				1000

• Line of weakness due to excess of water. McGill University, April, 1896.

3