THE

Wessax Tractford

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F.o.b. Regina

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Three horses cost $750

The Wessax Tractford will do four horses' work therefore saves you the price of three horses

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"The Wessax Tractford is a complete success. I pulled a 14 inch breaker and a section of harrows behind."—P. D. PREDDY, Rosetown, Sask.

"The Wessax Tractford cannot be beaten for road grading work."—WM. THOMAS, Brandon, Man.

"The Wessax Tractford is doing wonderful work pulling two 14 inch plows in some very sticky soil."—SIGLER & RICHARDSON, Vegreville, Alta.

"Mr. Bradley has had one of the Wessax Tractfords working for the last four weeks. It will handle any four horse implement with ease."—BRADLEY & BENWICK, Milestone, Sask.

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Ducks, per lb.	18c

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pavements, its swaying houses, its artificiality, its intensity, its narrowness.

And out of this inspirational school have developed three other schools: The local agricultural school, a technical school for the boys that adds to culture the science and practice of farming and its kin trades; the rural school of home economics, a technical school that teaches the girls the art of homemaking on the farm; and a third school for small holders, that combines the spiritual and the vocational for those who cannot attain to the other schools.

And these schools have given Denmark a new soul.

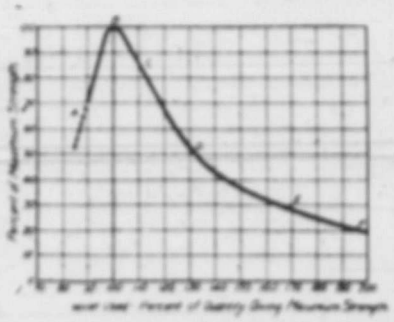
WATER IN CONCRETE

How wet should concrete be made so that after it has set it will have maximum strength? Some advise mixing concrete for building purposes so thick that when a ball of it is pressed in the hand it will stand up of its own accord. Sometimes we see it mixed so soft that it is literally poured into the forms. Differences of opinions have existed amongst engineers and contractors as to the influence of different quantities of mixing water on the strength and other properties of concrete. Recently exhaustive experiments have been made on this point and though these had a direct bearing on the subject of cement concrete for road making purposes, the results are applicable to concrete for building purposes and especially for stable floors. The quantities of water that should be used are shown in the accompanying table. They apply to concrete made of sand and pebbles or sand and crushed stone well graded into sizes up to one and one-half inches.

Showing Water Required for Sack of Cement

Approximate Mix as Usually Expressed			Water Required (Gallons per Sack of Cement)	
Cement	Aggregate			
	Fine	Coarse	Minimum	Maximum
1	2	4	6	6½
1	2	3	5⅝	6¼
1	1½	3	5½	6
1	1¼	2½	5	5½

It is assumed that the materials are comparatively dry to begin with. The amount of water that gives the maximum strength in concrete produces a mixture that is too wet for such purposes as building blocks or drain tile, which are required to be removed from moulds within a short time. The diagram shows



how rapidly the strength of concrete increases with the quantity of water over the range indicated by A-B. With any further increases in the amount of water, there is a rapid falling off in strength as indicated by the curve B-C-D-E-F. When twice the amount of water required for maximum strength is used, the concrete has only about 20 per cent. of its maximum strength.

Concrete that is thoroughly tamped should be mixed so that only a small quantity of water will appear on the surface after levelling and striking off. This gives the concrete a jelly-like consistency.

Road making is largely a matter of moisture control. When soil contains too much water it becomes mud; when it has too little moisture it becomes dust. But there is a certain moisture content at which soil packs hard. And this is just about the amount of moisture that a soil will readily hold. This can usually be maintained in a road that has good drainage, that is well crowned so that the water will run off when it rains and that is free from grass and weeds. These, if allowed to grow, will soon draw the moisture out of the soil and so remove the binding material.

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