THE NEW BLUES AND THEIR COMPETITORS IN COTTON DYEING.

NAME OF DVE.	Maker.	The solution of dye is made with	Shade of Colour.	The dye-bath at the end of dyeing is	By washing and rubbing with warm soap at 85 deg. C.			The original colour, with 10	ann I
TABLE OF DIE.					The original colour becomes	A white hank washed with it	The wash water,	per cent. soda at 80 deg. C. changed,	After 14 days' exposure to light.
New Blue B	Cassella & Co.		Blue	Not exhausted	Violeter and	Remains	Reddish, dirty	Brown	Greyer, at end
New Blue F extra		La DESAME	Blue, slightly	Nearly exhausted	duller A little redder	white do.	do.	Grey	green Darker & duller,
Indazin M	Cassella & Co.	Acetic acid	Do., a little more violet	do.	Paler	Becomes	Very blue,	Unaltered	Darker & redder brown, at end
Fast Blue R cryst	Action Ges- sellsch.für Ani- lin Fabrik	Hydrochloric acid	Violet blue	Not exhausted	A little redder	white	Reddish, dirty	Reddish grey	nearly white A little duller
Napthylene Blue G		Acetic acid	Blue, slightly	Exhausted	Violet grey,	do.	do.	Brown	Greyer & greener,
New Blue G	Bayer & Co.	Hydrochloric acid	do.	Nearly exhausted	insignificant Violetter	do.	Blue, dirty	Brown	end grass green Greyer, end green
New Blue R cryst	Bayer & Co.	do.	Violet blue	Not exhausted	Redder	do.	Violet, dirty	Reddish grey	Duller
Naphthol Blue R		do.	Do., rather more violet	do.	do.	do.	do.	do.	Duller
Fast Cotton Blue 2B	Meister, Lucius and Bruning	Acetic acid	Blue, slightly violet	Exhausted	A little violetter	do.	Blueish, dirty	do.	Greyer, at end
New Cotton Blue B extra	do.	do.	do.	do.	do.	do.	Very blue, dirty	Blue grey	Greyer, at end
New Cotton Blue F extra	do.	do.	Do., rather more violet	Nearly exhausted	A little redder	do.	Blue, dirty	Violet grey	Darker & duller, at end greyer

Designing.

NEW DESIGNS.

WORSTED TROUSERINGS.

Designs 9 and 10 are two examples for this class of goods. Design 9 is a warp backed cloth, the face being composed of a combination of the 2 and 2 twill, and the Mayo or Campbell twill. The difficulties in the construction of this plan are considerable, for, in the first place, the two face weaves must be made to cut properly, and in the second, the backing warp must be bound to the face cloth in such a manner that it will not be observable on the face of the texture. In many sateen weaves there would be no difficulty in effecting this, but in this case, since the Mayo is irregularly constructed, though certainly made on the basis of an eight end sateen, difficulties unlooked for present themselves, for though we find that the 2 and 2 twill may be tied in eight end sateen order, counting 5, the Mayo, though constructed on this base, cannot be tied the same way, so we have been compelled to alter the stitching in the 2 and 2 twill section, in order to produce a regular back, but if a regular back was not needful, then the 2 and 2 twill section might be tied as suggested. Designs 9 and 10 are two examples for this class of goods. Design 9 gested.

This cloth may be made to the following particulars :-

Warp.

1 thread 2/40's worsted for the face.
1 thread 2/36's worsted for the back.
20's, reed 6's.

West.

West.
All 2/40's or 20's blue or olive worsted.
64 picks per inch.

This design will also give good effects with fancy colourings. The following is a suggestion :

2nd Warp.	
8 threads dark blue. 4 dark green and blue twist.	face.
4 dark blue. 8 medium brown and blue twist. 1 blue and yellow twist. 4 threads of dark blue.	warp.
Weft. Dark brown, olive, or blue, or	black.

Colour should also be applied to the back.

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Design 10.

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Design 10 is a combination of the ordinary buckskin weave with a 4 and 4 rib. These combinations, as a rule, produce a good effect, either when used with neutral or with more pronounced colourings. The following would give a good_effect :-

Ist Warp.
All 2/40's brown and white twist. 20's, reed 4's.

20's, recu's s.

Weft.

All 2/40's or 20's dark brown or olive. 90 picks per inch.

If the buckskin portion between the ribs were increased, effective colourings might be introduced in the following order: —

0		2nd War	p.
8 4 12	hreads	s light sage green. claret. light sage green. claret. light sage green. Jark olive green.	Buckskin weave.
8	"	2nd Wej	t.

All dark green. Numerous other modifications of this design at once present themselves, and with a little trouble many exceedingly good patterns may be pro-

SCOTCH TWEEDS.

Perhaps no class of fabric made requires more natural genius for the production of creditable cloths than the "Scotch Tweed." Figured designers may adapt figures according to their requirements, skill only being necessary; designers of worsted have an extensive modifier of colour in weave effect; but the designer of Scotch tweeds depends almost wholly on colour, and the fact that colour has not and cannot be made subservient to fixed rules tells us at once that good colourists as a rule must be naturally gifted with quick and keen perceptive faculties. Since colour is such a delicate sensation to deal with, designers at first have a feeling that there is nothing for them to use, that there are not the number of colours necessary for the production of a great variety of effects, and only as we go more deep and our perception becomes finer do we recognise that the least change in tint of any colour in a combination alters the tone of the fabric entirely, and we may go still further and say that a change in the lustre, fineness, roughness, or any characteristic

that a change in the lustre, fineness, roughness, or any characteristic feature of a fabric may necessitate a change in colouring. Take, for example, the colourings applied to most worsted cloths and apply them to rough tweeds and we recognise at once their inappropriateness; and so all classes of fabrics may be dealt with, and it is found that each class

so all classes of fabrics may be dealt with, and it is found that each class requires a special adaptation of colour both in form and tone.

Perhaps the simplest patterns to produce in Scotch tweeds are where contrasts in light and shade are employed, such as in black and white, brown and white, &c. Here the beauty of the design depends upon the aptness with which form has been imparted to the colouring and the make and finish of the cloth, of course including clearness of the shades

make and finish of the cloth, of course including clearness of the shades employed.

The blending of various shades and colours together also forms an important branch of pattern production. Many suitable blends are at once called to mind, such as combinations of black and white, brown and gold, blue and olive, grey, olive, and white, and many others may be used for mixture "all over" effects, and which, combined in different proportions, will yield patterns by means of gradation, though it may sometimes be necessary to add a backbone to the combination in the shape of a stronger colour.

It is not out of place now to ask the question, "What is the distinguishing characteristic of Scotch tweeds "and the answer to this will serve as a guide in pattern production.

This question we propose answering fully next week.