FLAX GROWING AND MILLING.

Where the Flax Industry Pays; Where it Fails.

A "Right" Property is Worth a Walhi, an "Impossible" one spells ruin.

BY G. E. ALDERTON.

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WHAT THE BOOM DID

The year 1907 will be memorable with flax men for the sensational prices realised for fibre. As much as £38 a ton was given for the best. It would have been better for the industry, however, if such inflated values had never been reached, for it induced scores of people to rush into the busi-ness who subsequently were badly knocked out. They fell into the boom and took up quite ''im-possible'' properties. Mills were erected every-where and anywhere so long as there were ''ko-raris' and flax leaf in sight, and those who had the leaf growing on their properties reaped a great harvest. From 20s. to 30s. a ton royalty was paid in many cases for the green leaf, and fibre of all sorts and conditions was turned out by men, who in the majority of cases knew very little about the industry. This is very clearly shown by the statistics for the year as published by the Govern-ment. They are as follows:--Good Fair. Fair. Common. Condemd. The year 1907 will be memorable with flax men

	Good Fair.	Fair.	Common.	Condemd.
Auckland	10,987	28,520	9,527	1,205
Wellingto	n 24,644	36,930	2,697	288

The large proportion of common and condemned flax turned out in the Auckland province shows to what extent the amateur was at work. When prices receded to their normal level, those inex-perienced with the market saw in the fall what they considered a slump, and were seized with panic. They were completely knocked out now so far as prices were concerned, and for the sake of the industry it were better so. The throwing up-on the market of a large amount of very inferior and badly manufactured fibre not only tended to glut the market, but had much to do with causing a great set-back in market values. The amount of fibre required, like kauri gum, has its limitations, and over-production must quickly tell its tale. The large proportion of common and condemned

THE FUTURE.

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NEW MACHINERY.

portant as it is in its present stage of develop-ment, is a crude undertaking to what it must ulti-mately become. In the method—or absence of ment, is a crude undertaking to what it must utdi-mately become. In the method—or absence of method—of cultivation and fibre production, the work is being conducted, in the great majority of cases, on the most primitive of principles; and the milling is a process which must rapidly become out-of-date when modern ideas are brought to bear on its perfection. From a simple procedure of stripping, scutching, and paddocking—depend-ing on the whims of nature to take up the work where man leaves off—it must in time be revolu-tionised to a process which will take up the raw material at one end of a machine and pass it out at the other end a high-grade commercial com-modity Then we will have, with scientific methods of cultivation and treatment, a product of such quality that it will be suitable for the production of superior fabrics and the better qualities of cord-age, returning to the producer and to the Dominion at large much greater profits than are now en at large much greater profits than are now en joyed."

WHAT CAN BE DONE.

joyed.⁵⁷ WHAT CAN BE DONE. Now, looking at the business from another point of view, that of a man or company, who owns his or their own flax fields, the result is very different. There is no royalty to pay, and the mill adjoins the flax area, the cost in this case will be:--Cut-ting (from 6s. to 8s. per ton), say 8s., hauling by tram say 2s 6d. per ton, total cost of leaf de livered to mill, 10s. 6d. per ton, cost of nune tons to make one of fibre, £4 14s 6d. Add to this cost of milling a ton of fibre, namely £7 10s., and we find the cost of the ton of made fibre is £12 4s. 6d. We have yet to add to this the value of the green leaf which has to be charged as interest on capital. Assuming that the flax field cost (with mill and everything thrown in) £10,000, and we charge up five per cent. on that for the green leaf to run a mill for a season, we shall have to charge up the leaf at 5s. per ton, and nine tons of this for one of fibre will cost £2 5s., which, added to the price above, will bring the total cost of the fibre at the mill to £14 9s. 6d. This is the actual price at which fibre can be produced either by day labour or by contract, where the right conditions obtain. From these figures it will be seen, that even if a large margin is allowed for possible con-tingencies, there is in flax an assured and hand-some profit where the business is conducted on practical lines. And what makes the business thoroughly sound is this, that the flax areas of the Dominion having the requisite conditions such as those indicated, are very limited. Practically they are as rare as a good gold-producing mine, and, when found, are just as valuable-oven more so, because they will be permanent producers. There are any number of small scattered areas of flax here and there which may possibly be worked at a profit, but the properties of any size, the large swamps, which are drainable and afford the other conditions required as to means of transit, etc., are strictly limited. In fact, we can call to mind one certleman who for t swamps, which are drainable and afford the other conditions required as to means of transit, etc., are strictly limited. In fact, we can call to mind one gentleman who, for the last six months, has been looking for such a property in the Auckland province, and has not found it yet. Such pro-perties are closely held, and are not for sale. In the Manawatu district there are plenty of these properties on the big swamp, but they never come into the market, and they are variously stated to be worth prices ranging from £25 to £40 an are. The last known sale was of a property of 430 acres at Kereru, which realised £32 10s. per acre, and 100 acres of this was waste land. This pro-perty had been let on royalty and had produced as much as £1750 a year.

ACTUAL COST.

We recapitulate here the figures we give above as to the cost of growing and milling flax (the prices are from actual working as shown us and verified for as obtaining on the Northern Wairoa River) :--

oupling raide of property it	2	5	0	
capital value of property		_	-	
equal to five per cent. on				
†Nine tons of leaf charged at 5/-,				
*Milling one ton Fibre	7	5	0	
Hauling to Mill at 2/6	1	2	6	
Cutting 9 tons green leaf at 8/-	£3	12	0	

Cost of Fibre at Mill ..£14 4 0

*This is reducible, as is shown later on. +On T. Hallett's property this item stands at 2s. 5d. per ton, or £1 1s 9d. less for the 9 tons.

A one-stripper mill, for which the above figures are shown, should turn out 220 tons of fibre in the season, and it should be noted that in this calcula-tion nothing is allowed for the tow, as the man-ager who furnished the above figures considered it a safe thing to let the value of the tow (say £300 a year) go against repairs to and up-keep of mill, etc. In the above estimates, the only item that would be cheaper on the Wairoa than most places in New Zealand would be coal, which can be landed at the mill at 20s per ton, the timber vessels re-turning from Australia bringing in Newcastle coal cheap as return freight. The cost of freight of fibre from mill to Auckland is 16s, 6d. This term will, of course, vary at different places. The cost nore from mill to Auckland is 168, 66. This term will, of course, vary at different places. The cost of milling flax on the Manawatu is said to be some-what Figher than the above, but these are the figures which obtain on the Northern Wairoa. We know of only three other properties in the Auck-land province where these maximum results can be obtained obtained.

THE BEST FLAX LAND.

THE BEST FLAX LAND. The rich kahikatea or white pine swamp seems to be the natural soil for flax, though the plant will be found growing everywhere more or less, on high and low land alike. But the great areas of flax which at one time covered whole districts have disappeared, for it was always the richest land where the flax grew strongest, and the farmer got rid of the "weed" to make room for grass. There is very little flax to-day, and those who want flax must take up the big swamps and drain them, and it is really marvellous how little draining will bring the flax on where it already exists. There is one patch on the Wairoa which, since it has been drained, has cut eighty tons of leaf to the acre over a solid ten acres. The Wairoa is the home of the flax, and nowhere does it do better than here. Flax swamps (undrained) are worth anything from f3 to £12 an acre according to situation, and should cost never more than 10s. an acre to drain. The mistake is often made of over-draining a flax swamp. It is merely the stag-nant water that wants removing at first, and the flax immediately starts to grow; if the draining is made too deep and the water taken from the noots of the flax, the plant stops growing and a negative result is obtained; or if grown flax is over-drained, the leaf will be found to turn torgh and leathery, and the cutters will want considerably more for cutting, while the leaf will be harder to The rich kahikatea or white pine swamp seems over-drained, the leaf will be found to turn tough and leathery, and the cutters will want considerably more for cutting, while the leaf will be harder to strip. Shallow draining is insisted upon by prac-tical flax men, but the drains may be deepened in after years. Swamps which flood two or three times a year are preferred to those that do not flood. The flood waters deposit silt, scatter the flax seed over barren patches, and keep down insect life and prevent the worm from getting at the leaf. On the Manawatu swamp there is a con-siderable amount of tall fescue and toi toi grass, both of which are very unwelcome on a flax swamp. siderable amount of tall fescue and to i to grass, both of which are very unwelcome on a flax swamp, not only occupying the ground, but they make the cutting of the flax cost more. They should be carefully kept out of new country. Though there is a great difference of opinion as to how long flax takes to grow from seed till millable, a Wai-roa man declares it will be ready to cut in that district in three years. Flax is certainly more pre-cocions on the Wairoa than in other parts of the Dominion, for it is a common practice to cut it here every second year, the climate probably having much to do with this. When cut like this, it naturally makes more tow, and ten tons of leaf may be taken to the ton of fibre; while five-year-old flax may 1un 6 to 6½ tons of green to one of fibre. fibre.

PLANTING AND CULTIVATING.

DITE: **JUNITION AND CULTIVATION**. The hundred acres of good "scattered" flav with easily run a one-stripper mill, and less will to if the flax is anything like close. If all ti-per and wibbish is cut out and be bare places provide anything from 20 to 80 tons to the acre. Some people have started cultivating it on poor hard with good results. Mr. Allen Bel, of Te bare, Waikato, some five years ago, moved some planted them on light, dry, sandy soil, not know-ing whether the flax would the vegetation. Mr. Bell informs us that about half of it was planted the space in trenches, the remainder being provide of fibre, with very little vegetation. Mr. Bell informs us that about half of it was planted the space in trenches, the remainder being provide of fibre, with very little vegetation. Mr. Bell informs us the furrow after the plough. About provide bones and superphosphate, and the remainder being provide bones and superphosphate, with by far the provide bones and superphosphate, with wide blades provide bones and superphosphate, with wide blades provide any strenches, the remainder being provide bones and superphosphate, with wide blades provide any strenches and averaging about two provides at the flax was taken out of a wet, undrained