

PAGE	PAGE
55. To Mr. Hunt, with sample of Native-dressed flax, of which half a ton is requested ...	30
56. From Mr. Hunt, saying that there will be some delay in getting half a ton of flax ...	30
57. To Mr. Hunt, saying that Commissioners will be glad to get flax as soon as possible ...	30
58. To Mr. Woon, R.M., requesting him to procure half a ton of Native-dressed flax for £20 ...	30
59. From Mr. Woon, R.M., saying that he cannot procure Native-dressed flax ...	30
60. To Mr. Woon, R.M., saying that Native-dressed flax will be acceptable at any time ...	31
61. From Mr. Woon, R.M., who will procure flax if possible ...	31
V.—CULTIVATION OF FLAX.	
62. From Mr. Hulke, offering to place his nursery at the disposal of Government on certain conditions ...	31
63. To Colonial Secretary, recommending Government to accept Mr. Hulke's offer to hand over the flax nursery ...	31
64. To Mr. Hulke, saying that Commissioners will accept the offer of his flax garden on the conditions named ...	31
65. To Colonial Secretary, enclosing plans, &c., of nursery to be leased from Mr. Hulke ...	32
66. From Mr. Hulke, enclosing plans of garden, and saying that he will give his collection of fibres to Commissioners ...	32
67. To Mr. Hulke, thanking for the gift of fibres—the plants to be bought on terms specified ...	32
68. To Mr. Hulke, requesting him to procure flax plants ...	32
69. To Mr. Buller, R.M., asking him to procure flax plants ...	32
70. From Mr. Woon, R.M., saying that he will send flax plants ...	32
71. To Mr. Woon, R.M., acknowledging arrival of flax plants ...	32
72. From Mr. Field, giving results of experiments in the cultivation of flax ...	33
73. From Mr. Hirst, giving cost, &c., of planting 25 acres with flax ...	34
VI.—CANTERBURY FLAX ASSOCIATION.	
74. To Canterbury Flax Association, cannot make a grant of money as funds are limited ...	34
75. From Canterbury Flax Association, asking if reward for separating gum from flax was offered ...	34
76. To Canterbury Flax Association, saying that no reward for removing the gum was offered ...	35
77. From Canterbury Flax Association, requesting flax plants for cultivation ...	35
78. To Canterbury Flax Association, plants shall be supplied as requested ...	35
79. From Canterbury Flax Association, asking for 300 plants ...	35
REPORTS.	
VII. CATALOGUE OF THE SAMPLES OF FIBRES AND MANUFACTURED ARTICLES PREPARED FROM THE PHORMIUM TENAX, EXHIBITED BY THE FLAX COMMISSIONERS IN THE COLONIAL MUSEUM, WELLINGTON, AUGUST, 1871 ... 37	
A.—Native Fibres.	
I. Live plants ...	38
I. Machine-dressed fibre ...	40
III. Native-dressed fibre ...	48
IV. Manufactures ...	50
V. Brokers' classification ...	55
B.—Foreign Fibres.	
VI. Museum collection ...	56
Sample bales of fibres which compete with <i>Phormium</i> ...	59
VIII. MEMORANDUM FURNISHED BY COLONEL HAULTAIN ON THE FLAX MILLS VISITED BY HIM... 61	
IX. ON THE CULTIVATION AND GROWTH OF PHORMIUM TENAX ... 66	
European cultivation ...	66
Strength of fibre from leaves of different ages ...	67
Quantity of fibre in different aged leaves ...	67
Growth of plants ...	68
List of names of varieties of <i>Phormium tenax</i> distinguished by the Natives ...	68
X. MISCELLANEOUS REPORTS.	
Mr. E. Fox, on China grass and <i>Phormium</i> (in continuation of Report. See ante, p. 21) ...	72
Mr. Gordon, giving suggestions and remarks on flax, especially with reference to the cause of sea damage, and its preparation for the home market ...	72
Captain Fairchild, with reference to ropes used on board the "Luna." ...	73
Captain Kerr, reporting on rope used on the "Crusader" ...	73
Hon. Mr. Vogel to Commander Lewis, U.S.N., asking him to report on rope forwarded ...	73
Commander Lewis, reporting on rope used on "Resaca" ...	74
Major Gray, reporting on rope used in Californian pump ...	74
Mr. Pearce, giving scale of difference in weight of yarns of the same size, spun from Russian hemp and <i>Phormium</i> ...	74
A Lancashire manufacturer to Major Gray, with remarks on the wants of the home markets, and the proper getting up of New Zealand fibre ...	75
Flax Extension Association to Major Gray, reporting on sample of New Zealand fibre forwarded, and remarks on its preparation ...	76
Extract from Messrs. Devitt and Hett's report ...	76
Notes on <i>Phormium tenax</i> , delivered before the Auckland Institute by T. F. S. Tinne, Esq. ...	76
Extract from the <i>Southern Cross</i> , on Mr. White's patent flax machine ...	77
On some experiments to determine the power required to work the flax machines in common use in Auckland, by James Stewart, Asso. Inst., C.E. ...	78
Copy of letter from the Secretary to Chamber of Commerce, Dundee, to the Secretary Board of Trade, with remarks on the Progress Report of the Flax Commissioners ...	79
A lecture on the manufacture of New Zealand flax, by Captain F. W. Hutton ...	80
Notes by Captain Hutton on the means of distinguishing the fibre of New Zealand flax from those of Manila or Sisal by the microscope ...	90
Notes on Captain Hutton's lecture on flax, by William Skey, Government Analyst ...	91
Notes on the presence in certain fibres of a substance susceptible of some striking colorific changes, when chemically treated, by Wm. Skey, Government Analyst ...	92
XI. RESEARCHES MADE IN THE LABORATORY FOR THE COMMISSIONERS.	
Action of fresh water ...	94
Comparison of the re-actions of the extracts of various fibres ...	94
Action of fresh and salt water on rope ...	95
Effect of boiling sea water on the fresh leaf ...	95
Effect of sea water on the prepared fibre ...	95
Action of alkalis on the fibre ...	96
Action of Acids... ..	96
XII.—FURTHER REPORTS FROM HOME AGENTS, RECEIVED 10TH SEPTEMBER, 1871: CONTINUED FROM PAGE 21.	
1. From Mr. Morrison, acknowledging receipt of stripping machine and bale of flax ...	96
2. From Mr. Morrison, transmitting copies of letters from Mr. Thorne, relative to experiments made in manufacturing cloth from <i>Phormium</i>	96
XIII.—SUPPLEMENT TO THE CATALOGUE. ... 97	
XIV. TABLES.	
A. Showing the number of bales of flax and tow brought to public sale in London from 23rd April, 1870, to 4th May, 1871; showing the classification adopted by the English brokers, and the quantity and approximate value of each class ...	99
B. Showing the variation in prices of <i>Phormium</i> fibre during 1870-1 ...	100
C. Showing quantity and quality of roping and other hems, jute, &c., imported into England during the years 1868, 1869, and 1870, compiled chiefly from the "Trade and Navigation Account," presented to the Imperial Parliament in February, 1871. ...	101
D. Showing quantity and value of roping and other hems, cordage, jute, &c., imported into the United States during the year ending 30th June, 1867 ...	101
E. Showing the value of flax exported from New Zealand up to the end of the year 1864, and the quantity and value for each subsequent year, to 31st December, 1870; taken from the Colonial Statistics ...	101
F. Extract from the Census Returns, showing number of flax mills, &c., in New Zealand during 1870... ..	101
G. Result of experiments made to ascertain the relative durability and wear of New Zealand and Manila rope—Wellington, March and April, 1871 ...	102