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Colonial Herbarium.

REPORT

FOR THE YEAR 1896,

BY

J. MEDLEY WOOD, A.L.S.,

*Corresponding Member of the Pharmaceutical Society
of Great Britain.*

CURATOR OF BOTANIC GARDENS,
DURBAN.

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BENNETT & DAVIS, PRINTERS, 345, WEST STREET.

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Colonial Herbarium.

REPORT FOR THE YEAR 1896.

DURING the year the number of specimens in the Herbarium have been increased from 17,070 to 18,088, of which 7,455 are South African, and 10,643 from foreign countries ; all these are mounted and catalogued, and in addition I have about 400 which will be mounted during January, and I have advices of two more parcels on the way out. I regret that the large parcel of specimens of Central African plants which were received from the late Mr. J. Buchanan, C.M.G., is for the present of but little use to us, as they were neither numbered nor named, and must therefore be kept until the "Flora of Tropical Africa" is further advanced, when it will be possible for us to name the greater portion of them. The few Orchids in the parcel, I forwarded to Mr. Rudolph Schlechter, and he found amongst them four new species, which he has named as under, viz.: *Satyrium Buchanani*, *Satyrium anomalum*, *Platanthera Nyassae*, and *Eulophia gracilliscapa*, all of these are now in the Herbarium.

Miss Lauth, my assistant in the Herbarium, who up to March last only gave half of her time to the work, has since then been fully employed for the whole of her time, and besides checking, mounting, and cataloguing the specimens, has done good service in other ways, such as drawing details of the flowers on the Herbarium sheets, and dissecting and making sketch-drawings of the Gramineæ collected during the season, with a view to their being published, and illustrated as soon as circumstances will permit.

In conjunction with Mr. Maurice S. Evans, I have been at work during what spare time I have, in preparing for publication, an illustrated work on the indigenous plants of Natal. It is intended to issue it in parts, each part to contain 50 plates, with descriptions of the plants illustrated, two parts to form a volume. I take this opportunity of saying that it is only by

the very liberal support promised by the Government, that it has been possible to commence such a work as this, a work which we shall endeavour to make as useful as we can, both to colonists and to botanists. The 50 plants for the first part are already described, and contain many interesting species. The following new species are already described for this part:—

NAME.	FROM.
<i>Albucca Wylei</i>	Zululand.
<i>Berkheya latifolia</i>	} Drakensberg.
<i>Berkheya montana</i>	
<i>Chaenostoma neglectum</i>	
<i>Helichrysum infaustum</i>	
<i>Hibiscus saxatilis</i>	} Mooi River.
<i>Moraea glauca</i>	
<i>Pentzia Rylei</i>	} Drakensberg.
<i>Wahlenbergia depressa</i>	

Specimens of these plants have been sent to Kew, with a request that the Director will be kind enough to allow them to be compared with the specimens in their large Herbarium, as we wish by all means to avoid describing as new, any species which may have been already named, but in any case they will be figured in either the first or second part of the work. The artist is Mr. Walter Haygarth, and the public will be able to judge of the value of the services he is rendering to this work, but it must be remembered that he is engaged in business all day, and the whole of the drawings have been done in his very limited leisure. It is intended as soon as the material at our command will allow, and time can be found for the work to publish the grasses in a separate part, and for that purpose the details of a number of species already sketched by Miss Lauth will be available. A large parcel of specimens of this very difficult order have been sent to Professor Dr. Hans Schinz, of Zurich, who has kindly promised to forward the doubtful ones to Professor Hackel, a recognised authority on the Gramineæ, for examination and revision, and when his report is received we shall be ready to go on with the first part, provided that time can be spared for the purpose, and for preparing the lithographic plates. We do not however intend to attempt to name any new species in this order, but shall leave that to Professor Hackel or whoever may undertake in future their examination.

A large number of specimens have been received during the year for identification, chiefly in small lots of one to a dozen or so, and towards the close of the year about 150 examples were received from Dr. Dimock-Brown, gathered in the vicinity of

Estcourt, and of which I was able to name nearly the whole, the specimens being very well prepared. A parcel of plants which are being used by the natives in Zululand as food, was sent to me by His Excellency Sir Walter Hely-Hutchinson for report. Unfortunately they were in very bad condition, and some were almost unrecognisable. I was, however, able to identify about 28 of them, and also, though I could not specifically name the remainder, I was able to feel pretty sure that there was really no hurtful plant among them.

I have collected during the year at different times, in the vicinity of Greytown, Nottingham Road, Drakensberg, Umhlanga, Lidgetton, Van Reenen, and Mooi River obtaining on each occasion numerous specimens for the Herbarium, and for distribution. The journey to Drakensberg beyond Van Reenen, with a wagon was, however, an unfortunate one, as I was ill with dengue fever most of the time, and was able to do but very little work. In spite of this I managed to secure a number of rare plants, and a few that are, I believe, new to science, some of which have been already described for our new publication.

I have received during the year specimens as under :—

Messrs. Eli Lilly & Co., United States of America	190
Royal Botanic Gardens, Edinburgh	451
Royal Botanic Gardens, Calcutta	142
B. Carcuevojo, Oporto	100
Imperial Botanic Gardens, Berlin	250
Imperial Botanic Gardens, St. Petersburg	100
J. C. Melville, Manchester	128
H. Agner, Stockholm	62
L. Cockayne, New Zealand	98
	1,521

And I have sent away specimens of Natal plants in exchange as follows :—

U.S. Government Herbarium, Washington	114
W. Trelease, Botanic Gardens, Missouri	136
S. M. Tracy, Mississippi Experiment Station	104
Royal Botanic Gardens, Edinburgh	111
J. C. Melville, F.L.S., Manchester	100
Baron F. von Mueller, late Government Botanist, Melbourne	104
Botanic Gardens, Saharanpur	100
L. Cockayne, New Zealand	106
N. Holtze, Port Darwin, Australia	79
J. Fowler, F.L.S., Canada	79

Professor Lyons, Sandwich Islands	80
F. Reisen Walhausen, Austro-Hungary... ..	206
Professor Dr. J. Palacky, Cracow	208
Dr. A. de Degan, Budapest	153
Leo Grinden, Manchester... ..	59
Dr. Hjalmar Agner, Stockholm	160
B. Carcuevo, Oporto	105
J. Wagner, Hungary	107
Botanic Gardens, Mauritius	345
H. Bolus, Capetown	105
G. v. Aznavour, Constantinople	153
L. Cockayne, New Zealand	110

2,824

From some of these correspondents specimens have already been received, two parcels are on the way out, while from some no return has yet been received, but an equivalent will no doubt come to hand during the present year. The following publications have been received as donations to the Department :—

NAME.	FROM.
Contributions to the National State Herbarium	U. States Govt.
" " Flora of Yucatan	"
Botany of Yukutal Bay	"
On <i>Sisymbrium altissimum</i> (Tumbling Mustard)	"
Revision of American Cacti	"
Grasses of Salt Marshes	"
Useful and Ornamental Grasses	"
South African Labiatae, by Dr. Gurcke	Author.
Under das Verhalten des Zellkerns in Waschenden Zellen, by E. Zacharias	Author.
Chemical Papers from the Research Laboratory of the Pharmaceutical Society of Great Britain	President.
Cycads of Africa, by Lehman	A. Wagner.
Monograph of Cycadaceae, by Miquel	"
The Study of Human Foods, and Practical Dietetics	University of California.
Flora Capensis, Vol. VI, Parts 1 and 2	Kew.
Flora of British India	Kew.
Flora of West Virginia... ..	U. States Govt.
Acta Hortae Petropolitani. two parts	Director.
New Orchids from Sikkim	Dr. King.

NAME.	FROM.
Vegetation of Usambara, by Professor Engler	Author.
Distribution of Rutaceae	" "
Alphonse de Candolle	" "
Genera of Ternstroemiaceae,	Urban "
Key to Genera and Species of Hawaiian Ferns, by Professor Lyons	"
Reports of Committee of Imperial Prussian Academy of Sciences, by Professor Engler, two parts	"
Anatomy of Icacinaceae, by Professor Engler	"
Plants of German West Africa, by Professor Schinz	"
Mississippi Fungi, by Tracey and Earle	"
Report Botanical Department State College of Michigan	"

and the following have been purchased :—

Botanical Magazine, Vol. 51.

Gardeners Chronicle, current numbers.

Erythea, current numbers.

Orchids of South Africa, by H. Bolus, F.L.S.

In continuation of previous lists, I give now names of the plants which have come to my notice during the year as additions to the Preliminary Catalogue, this being the third supplementary list which I have published; a few of these plants have been accidentally omitted from previous lists, but many are new species, collected chiefly by Mr. Rudolph Schlechter, Mr. Maurice Evans, and myself, while some again have been taken from the two parts of the "Flora Capensis," published during the year. I think it advisable to place these names on record here, so that at no distant date, a supplement to the Catalogue may be published, the material for which will in a great measure be supplied by these reports. There are, however, in addition to new discoveries which will no doubt yet be made, a number of plants which are not yet specifically named, many of which are probably only varieties of well known species, but until they are identified, it would perhaps be somewhat premature to issue a fresh Catalogue. In conjunction with Professor Dr. Hans Schinz, and at his suggestion, we commenced such a list, it being our intention to have all at present unnamed plants described as we came to them. For this purpose I have supplied a quantity of information, but I fear that Dr. Schinz is too much engaged with other and perhaps more important work, to go on with it as quickly as I could wish; the first part should have appeared before now, but up to the time of writing I have heard nothing of it.

THIRD ADDITION TO PRELIMINARY CATALOGUE OF

NATAL PLANTS.

NAME.		NATURAL ORDER.
<i>Achyranthes argentea</i> , Linn	...	<i>Amarantaceae</i> .
<i>Albucca Elliotii</i> , Baker	... ..	<i>Liliaceae</i> .
<i>Alepidea setifera</i> , N. E. B	... ..	<i>Umbelliferae</i> .
<i>Aloe Boylei</i> , Baker	... ..	<i>Liliaceae</i> .
<i>Anthericum Saundersiae</i> , Baker	... ..	"
<i>Argyrobium nanum</i> , Schlechter	... ..	<i>Leguminosae</i> .
<i>Aristida flexicaulis</i> , Baker	... ..	<i>Irideae</i> .
" <i>montana</i> "	... ..	"
<i>Aspalathus Gerrardi</i> , Bolus	... ..	<i>Leguminosae</i> .
<i>Asparagus declinatus</i> , Linn	... ..	<i>Liliaceae</i> .
" <i>Sprengeri</i> , Regel	... ..	"
<i>Aster quinquenervius</i> , Klatt	... ..	<i>Compositae</i> .
" <i>Woodii</i> , Klatt	... ..	"
<i>Barbaretta aurea</i> , Willd	... ..	<i>Haemodoraceae</i> .
<i>Berkheya carlinoides</i> , Schlechter	... ..	<i>Compositae</i> .
" <i>Evansii</i>	... ..	"
<i>Bowkeria simplicifolia</i> , MacOwan	... ..	<i>Scrophularineae</i> .
<i>Brunsvigia natalensis</i> , Baker	... ..	<i>Amaryllideae</i> .
<i>Buchenroedera biflora</i> , Bolus	... ..	<i>Leguminosae</i> .
<i>Bulbinella carnosa</i> , Baker	... ..	<i>Liliaceae</i> .
" <i>natalensis</i> , Baker	... ..	"
<i>Calpurnea obovata</i> , Schinz	... ..	<i>Leguminosae</i> .
" <i>Woodii</i>, "	... ..	"
<i>Cineraria lobata</i> , L'Herit	... ..	<i>Compositae</i> .
" <i>othonnoides</i> , Klatt	... ..	"
<i>Cliffortia repens</i> , Schlechter	... ..	<i>Rosaceae</i> .
<i>Clivia nobilis</i> , Lindley	... ..	<i>Amaryllideae</i> .
<i>Cluytia ovalis</i> , Sond...	... ..	<i>Euphorbiaceae</i> .
<i>Convolvulus rhynchophyllus</i> , Baker	... ..	<i>Convolvulaceae</i> .
<i>Dactylopetalum mucronatum</i> , Nees	... ..	<i>Gramineae</i> .
<i>Dicoma sessiliflora</i> , Harv.	... ..	<i>Compositae</i> .
<i>Dioscorea crinita</i> , Hook, f.	... ..	<i>Dioscoraceae</i> .
" <i>microcuspis</i> , Baker	... ..	"
<i>Dipcadi oreophila</i> , Schlechter	... ..	<i>Liliaceae</i> .
<i>Disperis Wealei</i> , Reichb, f.	... ..	<i>Orchideae</i>
<i>Dolichos altigenus</i> , Schlechter	... ..	<i>Leguminosae</i> .
<i>Eriocaulon natalensis</i> , Schinz	... ..	<i>Eriocaulaceae</i> .
<i>Eriospermum Burchellii</i> , Baker	... ..	<i>Liliaceae</i> .
" <i>Cooperi</i> "	... ..	"
" <i>luteo-rubrum</i>,"	... ..	"
<i>Euryops Evansii</i> , Schlechter	... ..	<i>Compositae</i> .
<i>Garulem pinnatifidum</i> , D.C.	... ..	"
<i>Gasteria Croucheri</i> , Baker	... ..	<i>Liliaceae</i> .

NAME.		NATURAL ORDER.
<i>Gerbera ambigua</i> , Sch. Bip.	...	Compositæ.
<i>Gladiolus pubescens</i> , Baker	...	Irideæ.
<i>Habenaria polyphylla</i> , Kzl.	...	Orchideæ.
„ <i>transvaalensis</i> , Schlechter	...	„
<i>Haemanthus candidus</i> , Bull	...	Amaryllideæ.
„ <i>montanus</i> , Baker	...	„
<i>Helichrysum falcatum</i> , Klatt	...	Compositæ.
„ <i>nanum</i> „	...	„
„ <i>oreophilum</i> „	...	„
„ <i>parviflorum</i> „	...	„
„ <i>trilineatum</i> „	...	„
<i>Hermannia transvaalensis</i> , Schinz	...	Sterculiaceæ.
„ <i>Woodii</i> , Schinz	...	„
<i>Hesperantha subæserta</i> , Baker	...	Irideæ.
<i>Holothrix Macowaniana</i> , Kch ^h . f.	...	Orchideæ.
<i>Hypoxis argentea</i> , Harv.	...	Amaryllideæ.
„ <i>breviflora</i> , Baker	...	„
„ <i>obtusata</i> , Burch	...	„
<i>Indigofera Evansii</i> , Schlechter	...	Leguminosæ.
„ <i>natalensis</i> , Bolus	...	„
„ <i>rostrata</i> „	...	„
„ <i>seticulosa</i> , Harv.	...	„
„ <i>Woodii</i> , Bolus	...	„
<i>Kaempferia natalensis</i> , Schlechter	...	Scitamineæ.
<i>Kalanchoe longicollis</i> , Baker	...	Crassulaceæ.
„ <i>longiflora</i> , Schlechter	...	„
<i>Lactuca goreensis</i> , Sch. Bip.	...	Compositæ.
<i>Leontonyx glomeratum</i> , D. C.	...	„
<i>Lotononis grandifolia</i> , Bolus	...	Leguminosæ.
„ <i>Woodii</i> „	...	„
<i>Lyperia brevifolia</i> , Schlechter	...	Scrophularineæ.
„ <i>punicea</i> , N. E. B.	...	„
<i>Melianthus villosus</i> , Bolus	...	Sapindaceæ.
<i>Mimusops natalensis</i> , Schinz	...	Sapotaceæ.
<i>Nerine angustifolia</i> , Baker	...	Amaryllideæ.
<i>Notosceptrum natalense</i> , Baker	...	Liliaceæ.
<i>Pentzia asteroides</i> , Schlechter	...	Compositæ.
<i>Salvia obtusata</i> , Thb.	...	Labiatae.
<i>Sebaea Junodii</i> , Schinz	...	Gentianeæ.
„ <i>natalensis</i> , Schinz	...	„
<i>Senecio abrotanoides</i> , E. M....	...	Compositæ.
„ <i>curtophyllus</i> , Klatt	...	„
„ <i>drakensbergensis</i> , Klatt	...	„
„ <i>gyrophyllus</i> , Klatt	...	„
„ <i>isatideus</i> , D. C.	...	„

NAME.	NATURAL ORDER.
<i>Senecio paucicalyculatus</i> , Klatt ...	<i>Compositae</i> .
" <i>pullus</i> , Klatt	"
" <i>thyrsoides</i> , D. C.	"
<i>Stachys sessiliflora</i> , E. M.	<i>Labiatae</i> .
<i>Stobaea grandiflora</i> , D. C.	<i>Compositae</i> .
" <i>purpurea</i> , D. C.	"
<i>Strychnos Gerrardi</i> , N. E. B.	<i>Loganiaceae</i> .
<i>Trichilia alata</i> ; N. E. B.	<i>Meliaceae</i> .
<i>Typha angustata</i> , Berg & Cham.	<i>Typhaceae</i> .
<i>Vellozia clavata</i> , Baker	<i>Amaryllideae</i> .
<i>Vernonia oligocephala</i> , Klatt	<i>Compositae</i> .
" <i>stipulacea</i>	"
<i>Xymalos monospora</i> , Baill	<i>Bixineae</i> .

The following alterations to previous lists have been made or have come to my notice during the year :—

<i>Aspalathus eriophylla</i> , Walp	is	A. Gerrardi, Bolus.
<i>Buchenroedera</i> (J. M. Wood No. 3988)	is	B. natalense, Baker.
<i>Bulbine latifolia</i> , Schultz	is	B. natalense, Baker.
<i>Dioscorea</i> , J. M. Wood No. 1618	is	D. crinita, Hook, f.
<i>Eriospermum</i> " 256	is	E. natalense, Baker.
" " 1346	is	E. luteo-rubrum, Baker.
<i>Haemanthus</i> " 4810	is	H. montanus, Baker.
<i>Indigofera</i> " 872	is	I. natalensis, Bolus.
" " 1602	is	I. seticulosa, Harv.
<i>Kaempferia</i> " 544	is	K. natalensis, Schltr.
<i>Lotononis</i> " (4516 5152)	is	L. grandifolia, Bolus.
<i>Melianthus</i> " 4376	is	M. villosus, Bolus.
<i>Strychnos McKenii</i> ?	is	S. Gerrardi, N. E. B.
<i>Trichilia</i> (J. M. Wood, No. 1043)	is	T. alata, N. E. B.
<i>Xylosma monospora</i> , Harv. Nat. Ord. Bixineae	is	<i>Xymalos monospora</i> , Baill, Nat. Ord. Moni- miaceae.

J. MEDLEY WOOD.

