than the Myook of the township. It is a somewhat extracrdinary thing that in all the voluminous papers that have been written during the last few years on the village system, its usefulness or otherwise as a factor in the revenue administration of the country has scarcely been touched on. I think it would be well that this subject should receive attention before the breaking up of circles goes much further. What is wanted is some modus operandi by which the detrimental effects which I have pointed out might be removed and at the same time the benefits of the system preserved."

Mr. Smeaton does not share the views of this officer. The burden of his lamentation is that the village system gives more trouble than the large circle system in Lower Burma, where the taikthugyi is the man of all work. Mr. Harvey Adamson found the ywathugyis in the Lower Chindwin to be good revenue collectors and never complained of the village system while he was Deputy Commissioner of that district. His views appear to have changed since then.

PROCESSES.

the number of the preceding year. In the Northern and Central divisions the number fell off, but in the remaining divisions there has been a large increase, especially in the Eastern division, where the number has risen from 761 in 1891-92 to 1,585 in the year under report. This increase was most marked in the Meiktila, Yamethin, and Pyinmana districts. No sufficient explanation is given of this. The people with few exceptions were better off than in the previous year. The Commissioner suggests as a possible reason that, in Meiktila, the large expenditure on famine works during the previous year enabled people to pay their taxes more easily than in the present year when the expenditure on famine works was very small. Seven hundred and fifty-five persons were arrested, but in nearly every case they paid up, and nine persons only were actually imprisoned. The number imprisoned in the preceding year was 28. Moveable property was sold in 41 cases and in 22 the land was resumed or sold.

AGRICULTURAL ADVANCES.

178. The advances and recoveries made in each division during the year under report are shown in the statement below.

		District.			Outstand- ings on 31st March 1892.	Advances made in 1892-93.	Recoveries in 1892-93.	Outstand- ings on 31st March 1893.
Mandalay					Rs. 6,032	Rs. 8,731	Rs. 2,651	Rs. 12,112
Bhamo Katha	***	***	191		3,495 1 12,725	9,200 7,030	4,580	+ 8,115 8,451
Shwebo	•••		:::		24,931	20,000	6,848	38,083
Ruby Mines	***	201	885 g	•••	8,300	9,529	4,910	12.919
	Total	Northern D	ivision		55,483	54,496	30,299	79,680
Ye-11		•••	***		11,285	32.000	26,720	16,585
Sagaing					14,180	15,000	21,644	7,542
Lower Chind		•••	•••		11,760	21,541	31,421	1,880
Upper Chind	win	***	252	***	10,821	4,371	8.377	6,815
	Tota	al Central D	ivision		48,052	72,912	88,162	32,802
Myingyan	220	***			18,367	9,150	• 17.492	10,025
Pakokku		•••	•••		16,487	15,690	15:379	16,798
Miabu		***	***		15,780	13,610	29,210	180
Magwe	•••	22.5	52.5	***	35,392	6,887	35,778	6,501
	Total	Southern Di	vision		86,026	45,337	97,859	33,504
Kyauksè	***	***			05			
Meiktila	•••	•••	•••	•••	1,05,864	31,821	63,499	74,186
Yamethin	***	• • •	***	***	94,120	22,726	3,302	1,13.544
Pyinmana	***	***	***	***	24,132		16,202	7,930
	Total	Eastern Div	rision	•••	2,24,116	54,347	83,003	1,95,660
Thayetmyo (Upper F	Burma portio	n)	***	675	2,000	1,630	1,025
		GRAND "	TOTAL		4,14,352	2,29,292	3,00,973	3.42,671

The total sum advanced during the year under report amounted to Rs. 2,29,292 compared with Rs. 4,13,758 in the preceding year. The large advances in 1891-92 were rendered necessary by a succession of bad seasons, and the people required money not only to buy cattle and food-grains, but also to save them from being compelled to part with what cattle they had. In the year under report this urgent necessity did not exist. The outstandings at the close of the year in-

cluding those of the previous year amounted to Rs. 3,42,671.

The Financial Commissioner has observed that in many cases the period for repayment by agriculturists of these loans has been too short and several applications for extension of the period have been made. Instructions have accordingly been issued to all Commissioners and Deputy Commissioners that the maximum period for repayment is five years and that it is not intended that the loans should be recovered within one year, as has been done in many cases. The ordinary period should be two years, but where a Deputy Commissioner proposes to extend the period of repayment beyond two years, he should submit the case for the Commissioner's orders. The attention of Deputy Commissioners is invited to these instructions.

The total sum advanced in the Northern division during the year under report was Rs. 54,496. Of this Rs. 8,731 was ad-* Northern division vanced to agriculturists in the Mandalay district for cattle and seed. The Deputy Commissioner reports that one result of these advances has been to encourage the cultivation of wheat and 1,550 acres have been brought under this crop. Rupees 7,036 were given out in Katha and Rs. 20,000 in Shwebo. The repayment in the latter district depends upon the outturn of the harvest, and owing to the bad season of 1891-92 very small recoveries could be made on account of the previous year's advances. Including the previous year's balance the outstandings at the close of the year amounted to Rs. 38,083. The advances in the Ruby Mines and Bhamo districts were made to enable cultivators to buy plough cattle.

180. There was a large increase in the amount advanced in the Central division compared with the previous year. This was chiefly Central division due to the larger loans made in Ye-u, which amounted to Rs. 32,000 against Rs. 12,350 in 1891-92 Owing to the scarcity in 1891-92 the cultivators had been compelled to sell their seed-grain and cattle and large advances had to be made to enable them to buy cattle for cultivation. these advances were highly appreciated. During the year Rs. 26,720 were recovered and the outstandings at the close of the year were Rs. 16,565. Rupees 15,000 were advanced in the Sagaing district and Rs 7,558 of this were recovered. In the Lower Chindwin district Rs. 21,541 were advanced and recovered during the year under report. The advances enabled the cultivators to buy seed, and owing to the comparatively good harvest they were, the Deputy Commissioner reports, able to repay without hardship. It is satisfactory to learn that the cultivators were in a position to repay these loans within the year, but special care should be taken that they are not unduly pressed Very small advances were required in the Upper Chindwin district, only Rs. 4.371 having been given out compared with Rs. 9,930 in the preceding year.

Rupees 45,337 were given out in the Southern division during the year of report compared with Rs. 92,461 in the preceding Southern division year. Myingyan received Rs. 9,150, of which Rs. 1,150 was for purchase of seed-grain. In Pakôkku Rs. 15,690 were advanced of which Rs. 2,100 were for and provided Rs. 15,690 were advanced. of which Rs. 7,190 were for seed-grain and Rs. 8,500 for purchase of cattle. The period of repayment in most cases has been extended to 2 years, and this has been a great boon to the people. The advances made in Minbu (Rs. 13,610) were distributed as follows

> Minbu subdivision ... Salin subdivision Mon subdivision 4,110 4,500 . 5,000

and were all recovered during the year except the sum of Rs. 180. In addition to this Rs. 15,780 were recovered on account of the previous year, making a total of Rs. 29,210. Rupees 6,887 were advanced to agriculturists in the Magwe district. The sum of Rs. 35,392 outstanding on the 31st March 1892 was repaid during the year under review. The Deputy Commissioner reports that in some cases the thugyis misappropriated the money given out for advances to their villagers and in some cases the surety took half of the amount advanced. In two cases the amount advanced for fhe purchase of seed was spent in two hours, in the first case in paying debts and in the second in buying a patso.

Meiktila and Yamèthin, the total sum advanced being Rs. 54,547 against Rs. 2,16,465 in the preceding year. The advances in the Yamèthin district were made to enable the cultivators to buy seed-grain, but owing to the drought comparatively little benefit was derived from them. The interest due has been paid up and the period for repayment has been extended as the people were quite unable to meet the instalments originally fixed. In addition to its other misfortunes this district has suffered severely from fires, over 80 houses having been burnt down in Yamèthin town and 430 in Pyawbwè, the damage in the latter town being estimated at over 2½ lakhs of rupees. Rupees 31,821 were given out in the Meiktila district during the year under report. The Deputy Commissioner reports that this was given out in sums of Rs. 5 and Rs. 10 and expresses his doubt whether a sum of Rs. 30,000 given out in this way among a population of 150,000 could be of much real benefit, while it entails a great deal of trouble in distribution and collection. The Commissioner, however, does not agree in this view. Mr. Bridges says—

"I think there cannot be the slightest doubt that these advances did considerables good by enabling the people to raise a crop which they would otherwise not have been able to sow. The advances no doubt give trouble to the Deputy Commissioner, but this can hardly be taken into account considering the good they do."

The Enancial Commissioner agrees with the Commissioner in these remarks. District officers are paid handsome salaries for taking trouble.

183. Rupees 2,000 only were advanced in the Upper Burma portion of this district and of this Rs. 1,100 was repaid during the year.

SURVEY AND SETTLEMENT.

184. There were two parties (cadastral) of the Survey of India at work in Upper Burma in the year. Number 3 Party surveyed 1,766 square miles in Ye-u and Shwebo districts,

while No. 12 Party surveyed 1,143 square miles in the Minbu and Magwe districts.

Mr. Gibson was engaged with a Local Survey Party in Meiktila and Yamèthin districts. The areas traversed and in which the village boundaries were demarcated, were, in Meiktila 300 square miles and in Yamèthin 186 miles. The area cadastially surveyed was 71 miles in Meiktila and 141 miles in Yamèthin. The holding boundaries were also marked on the 16-inch maps which were prepared and preliminary records of rights were compiled. There were also 82 miles topographically surveyed on the 2-inch scale. The cost of the operations was Rs. 50.155. The area hable to assessment or temporarily fallow as found by survey is 100.826 acres as compared with 47.020 acres shown by the thugyis

survey is 109,826 acres as compared with 47,930 acres shown by the thugyis.

The Financial Commissioner desires to bring to the Chief Commissioner's special notice the services of Mr. G. B. Scott, Deputy Superintendent, Survey of India, Party No. 3. This officer during the year under report succeeded in surveying cadastrally a very large area at the risk of his own health. He also made topographical surveys in the coal tract of Shwebo and in the gold tract of Katha, both of which were very trying. In the previous year he had the survey of the coal tract in the Upper Chindwin, which he successfully executed under great difficulties. Mr. Scott is always ready to undertake the hardest and most trying work without complaint and regardless of his personal convenience: he generally succeeds in what he undertakes; and he has the faculty of getting on smoothly with the District Officers. His ungrudging services, rendered at the cost of his health, deserve the recognition of the local Government.

185. The reports on the Kyauksè and Mandalay Settlements remained under consideration. Certain statements required from Kyauksè were received after the close of the year

under review and the report has since been submitted to the Chief Commissioner for final orders. The Financial Commissioner received a manuscript copy of the Settlement report of the Mandalay district and took the opportunity of examining it during a tour in the district with the Settlement Officer (Mr. Laurie) in May. Mr. Smeaton found the report defective in many important respects and directed the Settlement Officer to revise it. It has not yet been received from the Commissioner. Before the close of the year settlement operations were started in the Sagaing and Minbu districts and are now progressing favourably so far as can be judged. The Financial Commissioner made short tours in both districts with the Settlement Officers. The revised draft of Directions to Settlement Officers in Upper Burma is now complete and will shortly be issued. In Meiktila the work of recording tenures was proceeded with and steady progress has been made. Certain important points were referred by the Commissioner to the Financial Commissioner for orders, and before these are decided it will not be possible to close the tenure registers which, however, are in the meantime being written up as far as possible.

Other Survey.

In Katha 2,919

acres were so surveyed, and in the Ruby Mines the Deputy Commissioner reports that practically the whole area of State land has now been surveyed. In Pakôkku the district surveyor surveyed 16,397 acres of State or disputed land. In Minbu the two district surveyors surveyed 28,417 acres of State land grants and house-sites. In Magwe the district surveyor surveyed 3,332 acres. In Ye-11 the district surveyor surveyed 5,414 acres of land, which was principally State land and land for which grants had been applied for. In the Upper Chindwin the district

surveyor was employed on similar work.

187. There was no change in the area under supplementary survey in the Mandalay district, the maps being as before kept Supplementary Survey, Upper up to date pending orders as to the revenue rates. The area of land assessed or occupied but exempted was 30,110 acres as compared with 29,976 acres in 1891-92, and the cost of the survey fell from Rs. 5,740 to Rs. 5,597. The area of the land liable to assessment was 17,251 acres or 40'5 per cent. more than the area (12,274) as given by the thugyis—the difference being due as before to undermeasurements by thugyis and also to their not assessing lands on which the crops failed. The supplementary survey was carried on by eight surveyors and the work was inspected by Mr. Gibson and Myoôk Maung Byaung. It was found that there were 475 acres of non-State land with kaukkyi crop sublet at Rs. 10'32 the acre and 89 acres of land under mayin sublet at Rs. 6.09 the acre. acres of State land were sublet at Rs. 11'26 the acre. Of State land 181 acres were transferred at an average rate of Rs. 12.76 the acre, or little more than one year's rent. Mr. Gibson has as in former years been in charge of such surveys by local surveyors as have been carried on in Upper Burma. He has kept the maps up to date and collected valuable statistics in the Mandalay and Kyauksè districts and he has also carried on extensive surveys in the Meiktila and Yamèthin districts. Mr. Gibson deserves credit for the very hard and good work done by him during the year and for his skilful management of the motley establishments with which he sometimes has to work. He generally succeeds in turning out useful surveyors even from the rawest material. He reports that Maung Byaung, one of the Myoôks who assisted him in his cadastral and supplementary surveys, did exceptionally good work. Mr. Gibson could not possibly carry on his numerous surveys without reliable assistants, and among these Maung Byaung, still a Myook of the 5th grade, was foremost. The Financial Commissioner commends Maung Byaung.

188. The Financial Commissioner desires to record his special satisfaction

with the work of the following Officers:-

In the Northern division Mr. Shaw, Deputy Commissioner of Shwebo, was most painstaking in his enquiries regarding the salt industry and the pressure of

the salt duty, and has by careful personal investigation thrown considerable light on the difficult land tenures in his district.

In the Central division Mr. McDermott, Deputy Commissioner, Sagaing, was persevering in his administration of the State lands, and Major Eyre, Deputy Commissioner, Lower Chindwin, spared no pains to ascertain by personal enquiry the resources of the people of this district.

Mr Porter, Deputy Commissioner, Upper Chindwin, made a successful effort to delimit State from non-State lands in certain important tracts and he is con-

tinuing the work.

In the Southern division, Messrs. Eales (Magwe) and Hartnoll (Minbu) maintained their reputation as thoroughly efficient Revenue Officers in all branches.

In the Eastern division, Captain Strickland had a difficult task in the administration of the Kvaukse district, in which he has acquitted himself well. Mr. Harvey Adamson interested himself in every branch of the revenue administration of the Mcikula district and contributed largely towards the solution of the sisa lands difficulty. His diames on tour, as records of the condition of the country and people, were excellent.

Colonel Cooke, Commissioner, Northern Division, had his hands full of work and did it well. Mr Bridges, Commissioner, Eastern Division, was indefatigable in his inspections of Revenue offices and in touring over his division. His careful investigations have thrown much light on a number of vexed land questions.

189. The reports were received from Commissioners on the following dates -

Commissioner, Eastern Division, 16th June 1893. Commissioner, Central Division, 26th June 1893. Commissioner, Southern Division, 27th June 1893. Commissioner, Irrawaddy Division, 5th July 1893. Commissioner, Northern Division, 17th July 1893.

RANGOON
The 1st December 1893.

W. F. NOYCE, Secretary to the Financial Commissioner.

APPENDICES.

iii. APPENDICES

EXTRACTS FROM THE REPORT ON THE OPERATIONS OF THE LOWER BURMA FIELD: TO-FIELD SURVEY BY LOCAL AGENCY PARTY FOR THE YEAR 1892-93.

CADASTRAL SECTION.

* As the programme of Survey work intended for completion during the year extended to several districts that were widely apart from each Preliminary arrangements. other, and that the combined area of the tracts to be operated in was as extensive as that of the previous scason, while the anticipated difficulties of work were much greater, it was decided to employ four more field-surveyors than were entertained the year before. Besides this the number of Survey Inspectors was increased by two, as experience had shown that the supervision exercised by one such Inspector over a squad of 12 field-surveyors was inadequate.

4 Officers.
10 Survey Inspectors.
100 Field-surveyors.
2 Holding-marking Inspectors.

10 Holding-markers.

1 Hospital Assistant

5 Clerks.

5 Draughtsmen.

16 Tracers 525 Tindals, chammen, &c.

The total strength of the establishment was as is denoted in the margin. Among the surveyors and others were included the hands that had worked as computers and mappers in the recess-season, as well as those of the field-surveyors who were furnished with leave-pay certificates at the conclusion of the previous field-season and who now returned for reemployment Of the field-surveyors to were Hindustanis, eight of whom had worked with the party before, one of this class was attached to each of the Inspector's squads.

Two detachments were again formed this year, to correspond with the same number of traverse camps that were to be employed on the work Taking the field. for the season One, that known as Cimp No. 1, was in charge of Myook Maung San Dun and had to work first in the Thayetmyo and Bassein districts on 16-inch traverse plots already in hand, which were supplied by the traverse section last season, and afterwards in the northern half of the Kyankpyu district on plots to be furnished later on by Traverse Camp No 3; the other under Myook Maung Tun was to and then to proceed commence operations in the Sandoway district to the Kyaukpyu district to survey in its southern half on plots to be provided there by Traverse Camp No 4.

Commencement of field-

6. The field-work of the main detachment of Camp No. 1 was at once begun on its arrival at its centre of work, and was confined chiefly to the left bank of the river where 12 circles were surveyed in whole or part, and small portions too of three circles on the right bank,

but situated at a considerable distance to the west of it, were also undertaken and finished. This detachment having finished the areas given to it for survey in the Thayetmyo district again assembled at Allanmyo where they left by steamer on the 26th January and came into Rangoon on the 29th. The minor detachment which was sent to complete the remaining areas for survey in six of the circles of the Bassein district that he on either bank of the Bassein river towards its mouth, got through the work assigned to it just in Arrangements having been previously made in this behalf, the whole of Camp No 1 started from Rangoon per R I. M. steamer Dalhousie on the 1st February and arrived at Kyaukpyu on the 4th idem. Here a sufficient number of traverse plots were in readiness for it to enable all the squads being at once sent out in connection with the detail work--some to the circles of the Kyaukpyu township and others to the Myèbòn township. The remaining months of the field-season were spent by this camp in the work of the two townships abovenamed.

Camp No 2 started its field-work shortly after its arrival at Sandoway, namely, on the 8th December, surveying entirely on the triangulation system. During the two months allotted to it for this purpose, it was only able to complete the work in 10 circles of the central township and seven circles (two in part) of the northern township. This was entirely due, apart from the very much longer time that such work must always occupy, and which was allowed for, to the excessively scattered nature of the work, the length of the country in which the areas intended for survey measuring so much as 120 miles, the consequent disproportionate amount of time taken up by the surveyors in moving about from place to place in the district, the difficult kind of work in hand, the cultivation for the most part being situated in patches between hills and dales, and the extreme smallness of the average field. The work in one circle of the central township, four circles (three in part) of the northern township, and four circles of the southern township had consequently to be left unfinished and the camp moved to the Ramree and Cheduba townships of the Kyanapyu district where by this time traverse plots were awaiting it, and where it would now have to work in the more inexpensive method of surveying on ready-made plots. A week or 10 days alone was last in shifting the camp from the Sandoway to the Kyaukpyu district. During the remainder of the field-season this camp was engaged on the surveys to be done of the two townships previously named, of the Kyaukpyu district.

It also sent an Inspector and five field-surveyors to do the detail survey on traverse plots in the Taungup circle of the Sandoway district where the field-work was supervised by the Assistant Camp Officer of Camp No. 4 in addition to his other duties.

A number of the hands taken on in the year were raw to their work, and had to be trained in the field by the Myoôks and Inspectors.

* No less than 10 sheets executed on the triangulation system by these raw, and even some of the older, hands had to be totally rejected and done over afresh.

* * *

7. During the four months, commencing with February, that traverse plots were Receipt of traverse plots.

Receipt of traverse plots.

Kyaukpyu district up to the very end of the field-season. The same was, however; not the case with Camp No. 1, where, through unavoidable causes, it could not be provided with a sufficient number of plots towards the end of the season and in consequence of which a small portion of country in the Myèbon and Kyaukpyu townships had to be taken up in survey on the triangulation system, in order to keep all the hands of the detachment fully employed.

8. Ordinarily it is not advisable to adopt the triangulation system of survey at all,

Survey on the triangulation system.

Survey on the triangulation as such work is necessarily slow, office work is increased and the real benefits of the traverse are lost. But occasions arise such as those of the present year, when recourse has to be had to such a method, in order to find employment for hands that would be otherwise idle,

and to save in expenditure as much as possible.

The matter of the survey of the area in Sandoway, on the triangulation system, was given the most careful thought; but any other method besides this could not be devised which would have adequately met the requirements of the case. There was, or would be, altogether in hand, in the early part of the season, only a sufficient number of skeleton plots of last year, relating to the Thayetmyo and Bassein districts (including those of 22 square miles of rejected field-to-field work of the previous year which had to be re-done in the present year and also of another 10 square miles of which the traverse work remained over for revision and of which it was thought that the plots should be completed by December), to employ one camp fully for about 2 months; the other camp would thus have no skeleton plots to start work with as it would not be possible for the traverse camps to supply sheets within a month of their starting field operations.

The triangulation work of both the camps was found to be of excellent quality as evidenced by the partals run through the kwins thus surveyed, and by a comparison of the detail sheets with the traverse plots which were subsequently prepared. The adoption of the triangulation system of work, * * although it has helped to find continuous employment for the detachments in the season, has likewise tended to enhance the cost of operations—firstly, in the higher contract rates payable to surveyors for this description of work (being 100 per cent. over ordinary rates for kwins in which there is much jungle and work consequenly more difficult, and 50 per cent. for such as are better cultivated and work therefore easier to do); secondly, in the extra time spent in line-cutting, making double measurements of the main chain lines, and the like, owing to which the charges on account of the pay of the chainmen and others are heavier; thirdly, in the additional labour which such work requires in the inking-up of sheets and copying them afresh on the 16-inch plots; and, fourthly, in the extra charge for supervision which this slower kind of work necessitates.

Tracts surveyed in previous years, those surveyed this year, and those remaining for

The areas of these various tracts ** for each of the ten districts named below are as under.

Excluded area.	Area surreyed in 1839-90.	Area surreyed in 1890-91.	Area surveyed in 1891-92.	Area surreyed in 1892-93.	Area for survey by District Land Records staffs in 1803 94, of which traverse picts are in readiness.	Total area,	Remarks
10°30 24°31 433°68* 498°88†	102.23	340°85 416°81 126°25 483°50 73°12	367 41 467 91 598 09	313.29		408'26 436'71 150'57 1,395'62 267'91 1,488'40	 Of which 35:48 square miles falls inside of main circuits. Includes 100 square miles fall- ing inside of main circuits. Falls inside of main circuits.
550'11‡ 100'00‡ 7'67‡				737'68 134'47	145'54) 60'22 97'00	1,473'33 300'69 104'67	j An area of 10 62 square miles out of this relating to plots corepleted only in part has al- ready been surveyed. It is no included in the figures of the previous column.
	433'08* 498'88† 235'18† 550'11‡ 100'001	433'68* 14,03 498'88† 105'52 135'18† 100'001 7'671	433'08* 14"03 483'50 498'88† 105'52 73'12 235'18† 100'001 7'67‡	433'68* 14'03 483'50 367'41 498'88† 105'52 73'12 598'09 235'18† 332'19 550'11‡ 332'19 100'001	433'68* 14'03 483'50 367'41 498'88† 105'52 73'12 598'09 212'79 235'18† 332'19 260'86 550'11† 727'68 100'001 737'68 767‡	433'68* 14'03 483'50 367'41 167'91 167'91 167'91 183'181 332'19 260'86 737'68 145'541 737'68 145'541 100'001 134'47 66'22 97'00	433'68* 14'03 483'50 367'41 1,395'52 267'91 267'91 267'91 267'91 2488'40 233'18* 733'19 260'86 828'35 550'111 733'68 145'54) 433'33 100'001 134'47 66'22 300'69 7'671 97'00 104'67

These figures are in accordance with the Survey Conference Programmes of 1889 and 1891 and subsequent orders. The area surveyed in detail by local agency this year was 1891 and subsequent orders. The area surveyed in detail by local agency this year was completed entirely on plots furnished by the local traverse camps, the sheets relating to an area of 102'39 square miles which were done on the triangulation system having been provided only on the return of the party to headquarters. In addition to the work done by Camp No. 1 in the Thayetmyo and Bassein districts, the survey in the Kyaukpyu district of 21 circles (three in part) of the Kyaukpyu township, and four circles (one in part) of the Myèbon township were finished. Camp No. 2 similarly completed, besides the triangulation work done by it in Sandoway, the survey, on traverse plots, of 18 circles (nine in part) of the Ramree township and eight circles of the Cheduba township in the Kyaukpyu district: also of one circle (in part) of the northern township in the Sandoway district.

10. As will be seen from the table in the preceding paragraph, there is still an area of 308'76 square miles including 10'62 square miles relating to only partially completed sheets left in the Kyaukpyu, Sandoway, and Akyab districts for survey, of which the traverse plots are in readiness, and which would have been finished in the year but for

the traverse plots are in readiness, and which would have been finished in the year but for the most unusually early setting in of the rains and the frequent showers that fell and high winds that prevailed in the districts named in the latter half of April and throughout the whole of May. This completely blocked work, and prevented the completion of the season's programme of operations. season's programme of operations.

11. For the districts of Thayetmyo and Bassein the Deputy Commissioners were duly addressed by the Director with a view to the necessary advance demarcation being done, in accordance Demarcation of gardens, &c. with the boundary rules, in respect to gardens, orchards, burial-grounds, roads, monasteries, pagoda and school lands, and village-sites. On the whole this work seems to have been indifferently performed by or under the orders of the thugyis and ywathugyis, for in many instances the surveyors had themselves to get the villagers to demarcate such lands prior to surveying them.

In the Kyaukpyu and Sandoway districts the demarcation of the lands above described was throughout well done, except in the case of dani gardens, the demarcation of which appears to have been somehow omitted in several places. The satisfactory state of this particular work was entirely due to the appointment of demarcation officers in the districts alluded to who personally supervised the demarcation of the lands in question.

12. The average size of the kwins surveyed in detail this year is 179 square miles.

This is fair considering that several of the kwins in question contain a large proportion of waste. In Sandoway re miles in area. The proper size of good workable kwins . Size of kwins. the average kwin was 1:02 square miles in area. is from about 1 to 2 square miles.

13. The field-season consisted of about six months, the ordinary term for the out
Duration of field-season.

Duration of field-season.

The field-season consisted of about six months, the ordinary term for the outdoor work of cadastral camps; it began on the 1st December 1892 exactly and ended on the 4th June 1893, the date
of the return of the camp to Rangoon by steamer from Kyaukpyu. It might with advantage have been less by an entire month, since little or no work could be performed in May,
owing to the almost incessant rain that fell during this time. This may be judged from
the fact of over 40 inches of rainfall having been registered for Kyaukuwu up to the end of the fact of over 40 inches of rainfall having been registered for Kyaukpyu up to the end of May.

15. The total areas surveyed of fields and topographical features, together with the amounts carned by the field-surveyors, are shown for each camp separately in Statement A. There were 136 field-surveyors are shown for each camp separately in Statement A. Moneys earned according to the contract rate of charges. camp separately in Statement A. There were 136 field-surveyors employed off and on in the party, but the average strength was throughout kept at 100. The average monthly earnings of a field-surveyor this year was Rs. 39, which is Rs. 2 above what it was last year. This is due to the higher rates payable on account of the smallness of the field, notwithstanding that the area surveyed under both cultivation and topography was considerably under what it was in the year before. The average earnings of the Burman surveyors was a trifle better than those of the Hindustani surveyors. The proportion of first to second class work executed by the surveyors was as 1:24, which is an improvement on that of last year; the rates of payment the Hindustani surveyors. The proportion of first to second class work executed by the surveyors was as 1:24, which is an improvement on that of last year; the rates of payment for these classes being in the ratio of 5:4. Third class work is that which is rejected, and therefore not paid for. The average size of the field this year has been so small as 0:15; in Sandoway it was only 0:11 and in Kyaukpyu 0:14. These facts in themselves go to show that the country operated on in the abovenamed districts was unfit for survey cadastrally. With perhaps the exception of the Cheduba and Myèbôn islands, where cultivation is fairly extensive, the rest of the cultivated tracts in Kyaukpyu might with advantage have been mapped on the holding-survey principle. In Sandoway such a survey had already been done two or three years previously, but the areas thus obtained do not appear to have been utilized for the purpose of assessment. A strong argument in favour of the prosecution of a holding-survey, which is a comparatively inexpensive one, in such tracts as are referred to is that cultivation has throughout reached its maximum limits, holdings are more or less VI APPENDICES

of a permanent character, and the cultivated tracts are for the best part in isolated patches all over the country. The average size of the field of the present year is about one-third of what it was the year before

Difficulties of survey and organiz-

The areas dealt with this year were situated in four different districts widely apart from each other, the cultivation was in patches and scattered all over the country the fields in the Ramree island and in Sandoway were to a large extent frequilar and in terrices lying on the slopes of bills, the average size of the field was excessively small, line-cutting through jungle was heavy, the country on the Arakin side was steeped in malirial communications on the same side were almost entirely by water, navigation by the seriand large river routes being both dangerous and difficult, a great loss of time was indessitated by the frequent shifting of the camps from one base to another and by the time occupied by the surveyors in getting to their respective centres of work. A certain amount of the survey was done on the triangulation system instead of on readymade plots and finally the general character of the country was such as to cause fears to be entertained for the complete success of the undertaking. In getting together, the necessary establishments too, much trouble and anxiety was caused. The Arakan side, in which most of the work of the very was to be done, was reputed for its extreme unhealthness, and it was with no little pressure brought to be it upon the men ind the assumption of a firm attitude in the matter that the hands were induced to proceed to Kyankpy und Sandoway.

Outturn of work and proportion of cultivation to was to

The proportion of cultivation to waste for the entire tract surveyed in the year is as 1 400, and for each of the districts separately as under, namely,—

In Fhavetmyo as 1 692
In Bassen & 1 1095
In Kyaukpyn as ... 1 347
In Sind way ... 1 100

The average proportion was slightly better than that of last year. In Bassein, although the extent of waste as compared with that of cultivation is large, the waste bits are intermixed with the cultivated areas and are such as are likely to be soon brought under the plough, so that in this sense they were worth surveying. For Sandoway the proportion is very good, but this was the effect of all intervening blocks of hilly country, however small, being wholly excluded from the operation of survey.

The total cost of the work exclusive of that for holding marking, preparation of tost of operations in aps and registers for Supplementary Survey Offices, revision surveys and en account of the drawing and preparation of the 16 and 2-inch maps for lithography for the entire survey year, comprising the period 1st December 1892 to 30th November 1893 amounts to Rs 1,00,282-15-11. This sum includes the actual expenditure of the field season together with the sanctioned is imates for the current recess. The cost rate of the work done in the year, therefore, comes to Rs 75 per square, mile, or timas 1-to an acre, against Rs. 58 and Rs 67 per square mile of the two preceding years respectively. This higher rate is attributable to the comparatively smaller area of work executed in the year, and also to the excessive smallness of the average field in consequence of which higher contract rates had to be paid for this class of work, a larger area being surveyed on the triangulation system than before, the expenditure of such a large sum is Rs. 4,261-8-10 alone on account of boat-hire on the Viakan side, apart from the cost of journeys by railway and steamer, and the loss of a month at the end of the season owing to stress of weather.

20 The partalling done in the year was more thorough than it was possible to have

The partalling disc in the year was more thorough than it was possible to have got done before. This was due to an increase in the number of inspectors, and the reduction of their charges from 12 to 10 field-surveyors, to the supervision of the holding-marking work having been transferred to special inspectors employed for this particular duty only, and the diminution of the irea surveyed as contrasted with that completed in the year before.

Altogether the work of the field surveyors was partalled by Inspecting Officers to the exicut of 1,272 miles of linear measurements. Of this 1,113 miles was executed by the Inspectors. The amount of line cutting through jungle done in connection with these partials consisted of 156 miles in all which goes to show the nature of the country worked in. The

APPENDICES. VII.

number of miles of similar line-cutting done by the surveyors themselves for their own work purely was 792. Check lines were run in 718 kwins out of a total of 751 surveyed; in the remaining 33 no partals were run for want of time, but these relate to jungle or water areas only.

Camp. District. Of visits.

No. 1 { Thayetmyo ... 2 Bassein ... 1 Kyaukpyu ... 4 } Kyaukpyu ... 3 } Sandoway ... 2

Of the kwins tested by the Inspectors, either before or after the visits of their superior officers, 215 were checked by the Myoôks and 47 by the Superintendent. The Superintendent examined the field-work of the camps to the extent mentioned in the margin. The Director inspected the field-work of Camp No. 1 in the Thayetmyo district in 9 kwins. In 8 of these the work was found to be be good * *

No. 2 Sandoway ... 3 kwins. In 8 of these the work was found to be be good * *

Some of the field work in Sandoway was tested by the Commissioner of the division and the Deputy Commissioner of the district, and found to be correct. The number of kwins that had to be re-surveyed in the year in consequence of inferiority of work as disclosed by the partals was 36.

As a precautionary measure, a number of the Inspectors' partal lines were gone over again by the Myoôks and Superintendent. These checks proved that the work of the Inspectors was well done, except in two cases where the persons in fault were punished each by a reduction to a lower grade. The quality of the survey work of the sheets which have been passed by the Inspectors is good.

been passed by the Inspectors is good.

Holding-marking.

21. The holding-marking work was completed of the entire area surveyed in the year.

* * * * *

There were in all 77.730 holdings representing an area of 166,672 acres delineated on the traces. The average size of the holding obtained from these figures is 2.14 acres, which is less than one-half of what it was last year, and is as small as is perhaps met with anywhere in Burma. The holdings are smallest on the Ramree island and in Sandoway. The cost of the holding-marking work amounts to Rs. 7,839-0-11, which is much higher than what it was last year.

The number of holdings tested by Inspecting Officers was 20,228, or about one-fourth of the total marked. The work on the whole was found well done. * * * * * 22. Revisions were conducted this year in one kwin of Thayetmyo, where the Myook

Revision surveys.

Revision surveys in the field-season and which was therefore re-surveyed and the correct-extracted in these being brought to notice. The kwins were accordingly re-surveyed, it being found in three of Hanthawaddy to notice. The kwins has being examination of his work.

Revision surveyed and the surveyor the bassein that the surveyor had clearly fudged portions of his work.

Revision surveyed and the surveyed last year and in three of Hanthawaddy in the case of Bassein that the surveyor had clearly fudged portions of his work.

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Revision and which was there of Bassein that the surveyor had clearly fudged portions of Bassein that the surveyor had clearly fudged portions of Bassein that the surveyor had clearly

Rs. 373-0-9.

23. There was an increase due to the present survey of 56,598 acres in area and Rs. 83,801 in revenue, exclusive of the 10 per cent, cess, over the corresponding figures of the thugyis for the year 1892-93, against similar increases last year of 76,877 acres and Rs. 1,10,077 respectively. The figures of the survey and of the thugyis have been contrasted with each other for the same identical year in conformity with the views of the Director, as expressed in last year's report on the Department of Land Records and Agriculture. If the thugyis' figures in some instances, for the years in which the arbitrary increases on the part of the thugyis were rendered manifest, were taken into account, for the purposes of the comparison, instead of their figures of the present year, the corresponding increases would of course have been much larger than those shown. The case of Bassein may be singled out as a glaring instance in which the thugyis fearing lest the introduction of the survey would disclose their notorious annual under-measurements suddenly increased their areas without any apparent legitimate cause. In this instance, as will be seen from the figures furnished below, if the thugyis' figures for 1889-90 are accepted for the purposes

of comparison, the resulting increase in area, due to survey, would be 93 per cent, and in revenue 125 per cent, whereas when compared with the figures of 1892-93, the respective increases are in area 39 per cent, and in revenue 45 per cent. The percentages of increase in area and revenue of the survey figures over those of the thugyis for the year 1892-93, together with the figures on which these calculations are based, are for each district operated in the year, as follows, namely—

			ARLA		REVENU	JF, FXCLU	SIVE OF	PPRCEN.	IAGF OF
District		According to	Accord rg to thugy s	Increase	Calculated on survey area	Calculated on thugues area	Increase	In area	In revenue, ev-
		Acs	Acs	Acs	Rs	Rs	Rs.	Acs	Rs
I havetmyo Bassen	9	21,000	7,915	10,740	23,092	12,080	11,902 5,419	96 23 • 38 98	98 52 45 41
Kyrukpyn		101,820	68,6,9	33 190	153-377	102,501	5 .576	45 35	49 63
Sindow is		31,943	22 360	9,583	51,900	36 305	1,604	42 50	42 08
I ot 11		166,672	110,074	56,598	246,622	162 521	83,801	51 42	51 47
Ba sem*		11,000	5,093	5.307	17.353	7,713	9 640	93 -0	124 99

The increases in area and revenue in the year are only it out two thirds of what they were in the year before. This is because a smaller area was surveyed this year, and also to some extent because of the fact of the cultivation in the Kyaukpyu and Sandoway districts, in which survey operations were principally carried on, being of a more settled haracter than in the delt in districts in which survey work was executed previously. In he Ramree island the whole of which was surveyed on the scale of 4 inches to the mile by a party of the Survey of India Department in the years 1868—70, the area then found as under cultivation (including abandoned fields) was 48,486 acres, while the present survey gives this area as it now stands, approximately, at 76,161 acres (of which 72,167 cres approximately are under actual ownership, and the thinguis at 48,769 acres (of lands in possession). From this it will be apparent that while cultivation has extended (although it may be considered to have pretty well rea hed its utmost limits now) in the Ramiee island during the last quarter of a century the thuggis areas have remained almost steadlast.

Inthographing and publishing of executed as heretofore, that is, the maps have been prepared on the litho-paper in the Lower Burma Field-field

Screen Office and the printing done at the Government Press at Rangoon * *

Of the work relating to the surveys executed in the year, there are 1,790 16-inch sheets for lithography and 86 2-inch sheets. Every effort is being made to have the former in readiness is early as October next, to enable the supplementary survey work of the districts concerned being started, if possible, in November of the current year. The cost rates for the printing of the maps at the Government Press are fixed this year by the Superintendent of Government Printing at Rs. 5 per 10-inch sheet and Rs. 10 per 2-inch sheet. The cost of the Mip section of office for this year, actual and estimated, amounts to Rs. 10,147-157, which will give the cost per 16 inch sheet at Rs. 4-10-0 and per 2-inch sheet at Rs. 21-6-0. The combined cost of these maps will, therefore, come to Rs. 9-16-0 for each 10-inch sheet and Rs. 31-6-0 for each 2-inch sheet, against similar charges list year of Rs. 11-3-0 and Rs. 17-10-0 respectively.

Man section.

26. The Map section of the office was in charge of Myook Maung Pyu Than throughout the year. The work of this section consists of the preparation by pantagraph, from the original 10-inch sheets to the 2-inch, the inking, typing, and printing of the original 2-inch sheets, the preparation on latho-paper for the press of such 2-inch work, and of all other general mapping that has to be done from time to time in the office. From December to June the reduction of last season's 16-inch sheets and the preparation of the original 2-inch sheets relating to these was done. The litho map work of the 2-inch sheets of the previous year was also finished. During the recess months the Map section will be principally employed on the litho work of the 16-inch sheets of the, year, after completing which their reduction to the smaller scale and the preparation of

^{*}The thugy is' figures in this line relate to the year 1889-90, and are given for purposes of comparison only.

APPENDICES.

the 2-inch original sheets, 86 in number, corresponding to them will be got on with. After all this has been done, the litho map work of this year and the one before, making 162 2-inch sheets in all, will be proceeded with, and completed, it is hoped, by next May. For this purpose, the Map section of the office will, after the party has been broken up in November, have to be kept on till the 31st May 1894; and will, besides have to be strengthened, to enable the whole of this work being completed by the date named.

Health of detachments.

Health of the season, while they were employed in the the sand on a sandoway districts; but it the members suffered most seriously throughout the remainder of the field term from the malaria of the place and in a lesser degree from bowel-complaints. Both the Myoôks were prostrated from fever for the space of about a month each, and had attacks of the complaint, off and on, at different other times. Both, too, applied for leave, but on their fever taking a favourable turn withdrew their applications.

Health of detachments.

Health of the were employed in the Thayer demands and Sandoway districts; but it the members suffered most seriously the members suffere

28. The Inspectors have this year worked zealously and well, with the exception of two who were reduced, each in a grade, for running defec-Inspectors, field-surveyors, &c. tive partal lines and passing of inferior work submitted by their field-surveyors. Two of the Inspectors, also, who had worked in a most unsatisfactory manner in the previous field-season had to be removed from their appointments last recess owing to continued gross and culpable neglect of duty. The field-survey irs, too, as a body, did good, reliable work, due to closer supervision on the part of the Camp Officers and Inspectors. Their work has stood the test of numerous partals run across their sheets, and considering the difficult nature of the surveys this year, they have acquitted themselves very creditably indeed. Several sheets had to be rejected owing to their not being up to the required standard, but as compared with previous years they were not The quality of the work of the Burman field surveyors this year was a great improvement on that of the Hindustanis, taken as a whole. Some of the latter class of workers were endeavouring to rush over the ground under survey without proper regard to accuracy of work, with the result that they paid for this in fines, rejections of their sheets and other ways. sheets, and other ways.

I would bring to special notice the excellent work done by Inspector Maung Lu Gyi, who was placed in charge of a sub-detachment for work in the Bassein district, and acquitted himself in a very creditable manner. During the trying cyclonic period of May last, Maung Lu Gyi, whose squad of 57 men were stranded on Paungne Kyun island (their boat baving been smashed up against the rocks) where they were without food for five days, came by himself into Kyaukpyu, under dangerous circumstances, to give the news. He then took the necessary assistance to the stranded men, in very rough weather indeed, and prought the party safely into Kyaukpyu. Maung Lu Gyi is an Inspector of the 1st grade. He is an intelligent and active man, and has worked in various capacities and on good pay, in the Public Works Department and in Supplementary Survey and other offices.

29. Myoôk Maung San Dun was throughout the year in charge of Camp No. 1. He is a most energetic and hardworking officer and continues to acquit himself very creditably in the discharge of his important duties. He is much respected by his subordinates and possesses a knack of exacting the maximum amount of work from them, with the least amount of friction. It is due to his hard work in the face of serious obstacles that his camp has such a satisfactory outturn of work to show as has been accomplished in the year. He kept very bad health for the space of a month in Kyaukpyu. Maung San Dun was promoted to the 3rd grade of Myoôks last February, a promotion which he well deserved. * * * *

Maung Tun held charge of Camp No. 2. He exerted himself in a commendable manner in conducting the triangulation work of Sandoway. On his coming to the Kyaukpyu district, however, he suffered a great deal from fever which hampered his movements considerably, and he was therefore unable to go about testing field work to the extent that he otherwise would have been expected to.

Maung Pyu Than, Myoôk, had the supervision of the Map section in the year. This is a less important sphere of work to which he was transferred last year in consequence of his mismanagement of work when in charge of a cadastral camp. He has worked steadily in his present capacity, although the map work has not progressed as rapidly as I should like to have seen it do. Maung Pyu Than is a 4th grade Myoôk, sub. pro tem. He has not yet succeeded in passing his departmental examinations. It is proposed to let him continue in charge of the map work till May 1894, when it will be time enough to determine as to where he should be sent afterwards.

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TRAVERSE SECTION.

30. All the requisite computations relating to last year's field-work were duly brought up in the recess. The work was very heavy, but with the computers being kept regularly at their duties Last year's recess work. and the exertions of the camp officers themselves, it was finished by the end of October.

31. In order for it to be possible to complete the large area sketched out for survey in traverse in the season, a working party of the full strength, on last year's lines, was estimated for and in course of time organized * * Preliminary arrangements.

2 Camp Officers.

2 Camp Officers.
2 Assistant Camp Officers.
4 Draught-men.
12 Computers.
30 Sub-Surveyors.
1 Hospital Assistant.
2 Clerks.

482 Tindals, chainmen, &c.

The entire strength of the establishment engaged upon the work is detailed in the margin. The composition of the camps was unchanged. Messeurs Haddock and Hardinge each held charge of a camp, with Maung Tha Byaw and Maung Shwe O as their Assistants respectively. The superior appointments were held by 32 Burmans and Karens and by 16 Hindustanis, that is, in the proportion of two of the former to one of the latter; of the latter number 13 were sub-surveyors, all of whom, except two who were engaged from Universitation. whom, except two who were engaged from Upper India,

had worked as such in the party in the year before and having been more or less trained in it previously were permitted to return to work again, while three were computers. Two of the Hindustani Sub-Surveyors who were removed for misconduct during the season were replaced by Burmans. Of the 17 Burman and Karen Sub-Surveyors, 13 had worked as sub-surveyors with the party last year, and had done duty during the recess season in the Cadastral section as computers and draughtsmen; the other four were locally trained men of the office. The older hands had been taught the use of the theodolite in the party before.

32. Two theodolite classes were opened out in the office during the last two months Training of hands.

Gf the recess season, one being attached to each camp.

The classes were regularly taught on week days by the

Burman Assistants. They were attended by the Burman Surveyors of the party of the year before and by a similar number of the more intelligent

field-surveyors belonging to the cadastral camps; in all, 26 were thus instructed. * *

* To Messrs. Haddock and Hardinge is due the credit of having thoroughly trained their field and office staffs to their respective duties, and to the success of the year's traverse work generally.

33. The same system of payments as was adopted last year was continued in this. Sub-surveyors received fixed monthly salaries from Rs. 40 System of payment to sub-surveyors and others. to Rs. 60 per mensem.

The computers and draughtsmen, whose services are retained for the entire year, got from

Rs. 30 to Rs. 70 exclusive of the usual travelling allowance while out in the field. * * * 34. There were two traverse camps formed this year, just as was done in the year Taking the field.

Taking the field.

Taking the field.

The original arrangement was for Camp No. 3, the one in charge of Mr. Hardinge, to first operate in the Kyaukpyu and Myèbon townships of the Kyaukpyu district and then in the lower half of Sandoway district, and for Camp No. 4, the one under Mr. Haddock, to work at the start in the Ramree and Cheduba townships of the Kyaukpyu district and then to proceed to Sandoway district for work there is its upper half. But oning to later orders received in Langary collarging the protownships of the Kyaukpyn district and then to proceed to Sandoway district for work there in its upper half. But owing to later orders received in January, enlarging the programme of the season's work, whereby the party was also required to survey three circles of the Minbya township of the Akyab district, the above plan of operations was altered to the extent that Camp No. 3 instead of undertaking the survey work sketched out for it in Sandoway was to do that of Akyab which adjoined the Myèbon township of Kyaukpyu, while Camp No. 4 was to do the whole of the work of Sandoway. All requisite arrangements having therefore been completed for starting field-work, Camps 3 and 4 left Rangoon by the R. I. M. S. Dathousie on the 1st November, and after a somewhat rough and stormy passage reached Kyaukpyu on the 5th of that month. Here the detachments were met by the Deputy Commissioner, and duly landed in the boats of the party.

36. During the field-season Camp No. 3 supplied 620 sheets relating to 306 kwins to Supply of traverse plots.

Cadastral Camp No. 1. The Cadastral Camp was well kept in plots for the first two months from early in February, but later on there was a marked falling off in this respect owing to the office staff suffering very considerably from fever towards the end of the season; so that although the field-books of the sub-surveyors were being received in sufficient numbers, the office hands, owing to sickness, were unable to keep pace with the field-work, in the completion of the requisite computations and the preparation of the plots.

* *

Camp No. 4 amply provided Cadastral Camp No. 2 with traverse plots throughout the last four months of the season during which alone it was intended that it should so furnish them. The Cadastral Camp in question had thus right through this term always enough plots in hand to keep all its hands fully in work. The total number of plots supplied up to the end of the field-season was 590 appertaining to 236 kwins, and since then 200 sheets referring to 180 kwins chiefly of those that were previously surveyed on the triangulation system. Considering that the traverse camps had only two clear months in which to do the traversing and preparation of plots before the arrival of the Cadastral Camps on the same ground and then to have these camps to closely follow in their footsteps for the remainder of the field-term, the results recorded reflect great credit upon the Camp officers concerned, and show that the advance surveys were pushed on both vigorously and successfully.

38. A total area of 1,802'93 square miles situated in the districts of Kyaukpyu, Sandoway, and Akyab was traversed during the year. This excludes 10 square miles of revision of last year's work in Bassein, which occupied a full squad an entire month to finish. Of the total area surveyed this year, an area of 643.58 square miles was not set up or plotted owing to the blocks composing it consisting chiefly of hills and jungle which it was decided to omit as unfit for survey, in a revenue sense, in detail on a large scale. Particulars regarding the areas surveyed, in traverse, by local agency during the past two seasons (see Map E) are given below, namely,—

	*		*	*	A.T	*	*	
Total		1,587.44	1,802.93	1,277.20	1,149.35	3,390°37	2,426.55	
Thayetmyo Prome Thôngwa Bassein Kyaukpyu Sandoway Akyab		Sq. miles. • 747.24 8.92 136.05 695.23	Sq. miles 1,403'96 294'00 104'97	Sq. miles. 537.00 8.92 136.05 595.23	Sq. miles. 10.00* 852:35 190:00 97:00	Sq. miles. 747 ⁻²⁴ 8 92 136 ⁻⁰⁵ 695 ⁻²³ 1,403 ⁻⁹⁶ 294 ⁻⁰⁰ 104 ⁻⁹⁷	Sq. miles. 537.00 8.92 136.05 605.23 852.35 190.00 97.00	* Revision.
District.		In 1891-92.	In 1892-93.	In 1891-92.	In 1892-93.	Area surveyed.	Area of which kwin plots were prepared,	Remarks
District	·		REA SUR-	WHICH KY	D AREA OF WIN PLOTS REPARED.	CUTED 1	ORK EXE- N 1891-92 892-93.	D

Permanent marking of survey stations.

Were permanently marked with the usual pottery pipes (to the extent of one-sixth) or with zinc tubes (to the extent of five-sixths) in lieu of these; in 1,050 cases natural rocks and stones in situ were used as permanent marks; and the remaining 6,888 stations were denoted by stout wooden pegs well driven into the ground which represent the temporary marks. All trijunctions and "jawabs" whatsoever were marked in a permanent manner; also alternate, and in some eases every third or fourth bijunction station. This latter plan was adopted to save expense, chiefly in uncultivated, marshy, and hilly tracts through which an abnormal number of short lines had to be taken and where there is not the same need for marks of a lasting kind as there is in cultivated tracts. In all cases where zinc tubes or clay pipes were employed, the embedding of these in the ground was invariably done before observation.

Destruction of permanent survey marks.

The Ramree island in the matter of the wholesale destruction of permanent survey station marks soon after they were laid down. Most of the cases of the uprooting of marks, as well as of the refusal of villagers to render lawful assistance to the surveyors, occurred in the Ramree township and were dealt with by the present Township Officer, Maung Tet Kaing, of Ramree, the parties in fault having been fined or otherwise punished by him. Orders were at the same time issued by the Deputy Commissioner to the local officials of the district to protect the interests of the survey as much as they could.

* * * * The Deputy Commissioner likewise issued stringent orders to all the taikthugyis and ywathugyis to attend to the protection of all permanent survey marks laid down within their respective jurisdictions in the manner required by the Director's Circular letter on the subject. The effect of

them, and the other measures adopted was that all such marks were thereafter protected by the raising over them of mounds of earth or cairns of stones, and no further complaints came in from surveyors regarding damage done to survey marks or obstructions to survey work in any other manner whatsoever.

After this the survey work in the Kyaukpyu district progressed satisfactorily, which was due in a great measure to the ready help given to the survey camps working in that district by the Deputy Commissioner (Mr. Leeds) and by the Township Officers working under his orders. It would seem that the real cause for the obstructions to survey work generally at the commencement of survey operations in the Kyaukpyu district is traceable to the apparent antagonism of the people to the introduction of the survey into their part of the country, as evidenced by the complaints lodged by them before the district revenue authorities when it became generally known that the district was to be surveyed cadastrally. In the Sandoway and Akyab districts the survey marks do not appear to have been tampered with to any serious extent.

47. **The area of kwin traverses, exclusive of jungle kwins which were not set up and plotted, consists of 1,149.35 square miles appertaining to 828 kwins. The number of subtraverses run was 210 and the number of linear miles of chaining performed, with two distinct chains, one of 66 feet length and the other of 100 feet, was 3,217. The theodolite was set up, in all, at 28,424 stations being 16 to the square mile; the total number of angles observed with it being 29,470. The average distance between two consecutive stations was 8.73 chains, and the number of miles of line-cutting done through jungle was 2,135. These figures in themselves go to show the nature of the ground over which the work was carried.

work was carried.

The average number of theodolite stations that were permanently marked per square mile of kwin and jungle blocks taken together is 12 and of kwins alone 19. The angular work was checked by 204 star and 22 sun observations for azimuth, and the linear work by connection with 11 Great Trigonometrial Survey stations.

* * * *

On a comparison with the corresponding figures as furnished in last year's report, it will be seen that the outturn of this year * * is in every way even an improvement on what it was before; the area completed is larger, the number of stations observed at and angles measured is about half as much again, more line-cutting was done, there was an increase in the number of permangut marks laid down by about 25 per cent; and there were over twice as many azimuth observations made. For these excellent results Messrs. Haddock and Hardinge and their staff of workers are to be congratulated.

Partalling.

Partalling.

not proving, consisted of 5,312 angles in the angular work and of 625'13 miles in the linear work. Thus one-sixth of the total number of angles had to be re-observed and one-filth of the total distances re-chained, against similar ratios arrived at last year of one-fourth and one-third respectively.

*

The Superintendent inspected the work of Camps 3 and 4 on nine occasions, as noted in the margin, and found the same in order on every visit. The Director inspected the work of the former camp at Kyauk-pyu in December.

51. As will be apparent from a reference to Statement D the quality of the work executed this year was remarkably good. The limit of

Mathematical results.

executed this year was remarkably good. The limit of error allowed, in regard to the co-ordinate distances, was to links per mille for kwin traverses and 5 links for main circuits; and in respect to the angular work, it was one minute in every five angles for main and minor circuits, and one minute in every three angles for kwin traverses and subtraverse lines or "purcahs." Larger corrections than these in the traverse computations necessitated a re-survey. The average angular error in the season's work was 3 seconds per station, and of distances of of a link per 1,000 links. The smallness of these errors shows the excellent quality of the surveys executed.

Taken as a body, the sub-surveyors worked very satisfactorily this year. those who did exceptionally good work seven were Burmans and five Hindustanis. Two of the Hindustani surveyors Sub-surveyors, computers, &c. were dismissed in the middle of the season for falsifying their work and other faults; they were replaced by Burmans. Another was found to have "cooked" his double angles and B and C vernier readings, while his tindals had only measured their distances with one chain and "fudged" in the corresponding readings of the other. Of the office staff three of the draughtsmen and six computers worked more than ordinarily well, two-thirds of these combined numbers were Burmans. * I desire to bring to special notice the uniformly excellent work done during the two years by the two Head computers of the traverse camps. Kunhia Lall, who belongs to Camp No. 3, understands his work thoroughly and has been of invaluable assistance to his camp officer. He has rendered good work throughout his time of service in this office, and is worthy of commendation. I shall be glad if he can be found suitable work as an Accountant or Clerk in a Government office on the breaking up of the party. He knows English, but not very well. His present pay is Rs. 70 per mensem. The other Head Computer is Maung San Shwè, attached to Camp No. 4. He too has worked well and computer is many officer arrows estimated to Lamp No. 4. given his camp officer every satisfaction. In Ramree he suffered a good deal from fever, but stuck to his work all the same in a very commendable manner. He possesses, for a good knowledge of English. intelligent and smart at his work, and I believe would, in course of time, be capable of carrying on the work of a Superintendent of Land Records in a small district. * *
55. Mr. Hardinge continued to be in charge of Traverse Camp No. 3 in the year.

He has done exceptionally good work throughout his four Camp Officers and Assistants. years' service with the local Agency Survey Party, but more especially during the latter half of this term, in which he has held an important professional In the face of many difficulties, Mr. Hardinge succeeded in traversing an area, in two districts, of 677'93 square miles, being the whole of that which was allotted to him for completion in the season; and considering the intricate nature of the country worked in and the scattered nature of the work, this outturn was every good indeed.

Maung Shwe O is the Assistant Camp Officer of Camp No. 3, and has performed his duties as such in a highly satisfactory manner. He was employed for the major portion of the field-season upon main-circuiting, and in supervising the work in the Mycbon township of Kyaukpyu and also in the three circles traversed in Akyab. He suffered a good deal from fever at the commencement, but stuck manfully to his work. Maung Shwe O's

qualifications and claims to promotion have been previously brought to notice.

Mr. Haddock has remained in charge of Traverse Camp No. 4 throughout the season. He originally belonged to the Survey of India Department, but since then has been permanently transferred, under the orders of the Secretary of State for India, to Burma, for service in the local Provincial Survey. Mr. Haddock is a very capable, energetic, and valuable officer of the Government. Throughout the two years of his employment in the local Agency Survey Party he has performed his important duties as officer in charge of local Agency Survey Party he has performed his important duties as officer in charge of a traverse camp in a highly efficient and satisfactory manner. During the season his camp alone accomplished the traverse survey of so large an area as 1,125 square miles of original traverses in two districts and another to square miles of revisional work in a third district. This was in the face of numerous difficulties, such as the presence of sickness among the men in the earlier half of the field season, the jungly nature of the country worked in and the like; and, therefore, all the more reflects great credit on Mr. Haddock and is proof of

his general good management.

* * *

Maung Tha Byaw is the Assistant Camp Officer of Camp No. 4. He did not do much actual survey work himself in the field-scason having been chiefly employed in supervising the work of the sub-surveyors who in parts of the country worked at great distances from the base camp. The work of picking up by traverse the triangulation work in Såndoway

was well attended to by him.

GENERAL.

56. The cost per square mile of the combined work of the traverse and detail survey of the year amounts to Rs. 119, and per acre to 3 annas against Cost rate of combined operations of traverse and detail sur-Rs. 104 and 2 annas 7 pies respectively last year. per field for traversing, detail survey, and preparation of maps vey. comes to 2 annas 6 pies.

Accounts and periodical returns.

Accounts and periodical returns.

Accounts and periodical returns.

Accounts and periodical returns.

The system for the preparation and submission of the accounts and returns of
both sections of the office was precisely the same as that in
force last year, and has worked very satisfactorily. Money
needed for the working expenses of the party were drawn
for on abstract bills, as required, and the usual detailed bills, together with separate accounts-current relating to the cadastral and traverse sections, submitted to the Comptroller

XIV. APPENDICES.

at the end of each month. In the field-season camp officers were kept in funds by means of abstract bills, drawn in their favour, on such treasuries as they required them; the necessary money provisions having been made in this respect before the taking of the field.

Assistance rendered by local officials.

Assistance rendered by local officials.

Assistance rendered by local officials.

In the districts in which the party worked was sufficient for the due prosecution of survey operations. In Kyaukpyu in particular, where the Deputy Commissioner (Mr. Leeds) took a keen interest in the work of the survey, and generally afforded much help to all the camps, ample assistance was given by most of the petty officials and others owing to the very stringent orders that were issued by him in the matter. The Township Officers of Ramree and Cheduba (namely, Maung Tet Kaing and Maung Shwe Hman) gave every help to the survey, and it was in consequence of the interest taken by them in the work that excellent help was rendered to the surveyors by the villagers of their townships. This was very encouraging to the men of the party in a country so difficult of survey as that worked in, and it was owing to the assistance thus received that the traversing of Ramree and Cheduba was accomplished so quickly as was done.

* * *

There were treated, as indoor-patients, in the Camp Hospitals, by Ram Chandra Naidu, 246 patients, and by Shaik Rahim Buksh, 173 patients. This was exclusive of the sick to whom medicines were constantly being sent out into the field. The daily average sick in each of the camp hospitals was 10 in the earlier and unhealthic part of the season and 8 in the latter part.

67. This will perhaps be a fitting place to give a short resumé of the work performed by the local Agency Survey Party during its period of exist-ence since 1880-90. During the first two years of its opera-Resumé of work of past 4 years. tions it worked on the plots furnished by No 12 Party of the Sarvey of India Department; but owing to the transfer of this party to Upper Burma, the local agency one did the combined work of both the traverse and cadastral survey during the remaining two years. Nearly all the hands of the office are Burmans, even to the officers, who have been locally trained to their duties. This in itself throws an extra burden of work on the office, in the matter of accounts and in most of the correspondence having to be carried on through the medium of the veruacular. On the whole the survey staff has worked hard and well both in the field-season as also during the recess. The men have had to survey in difficult, remote, and unhealthy localities, exposed to numerous privations and daugers and have undergone much fatigue and labour; and I doubt very much, if they, or at least the larger number of them, could be induced to continue much longer in their present spheres of work after their past experiences. The present office has been organized and maintained by personal influence and the hope that the members have throughout entertained of its proving a stepping stone to more congenial and lucrative employment hereafter. Speaking generally, Burmans do not usually seek occupations demanding much labour or which are attended with great personal inconveniences; and unless actually driven to it by force of circumstances, will rather take up work which is more agreeable to their indolent habits and carrying lesser pay with it than take service where they will be called upon to exert themselves to a somewhat larger extent although the remuneration for so doing would be greater. It would, in fact, be inadvisable to continue survey work by local agency on an extensive scale, by either of the two systems that have prevailed within the past four years; such work is best left to Survey of India parties which belong to an old and well-organized department and whose hands are thoroughly trained and particularly fitted for the duty. The local Land Records Department should, I think, only concern itself in addition to its supplementary survey work proper with the survey of scattered patches of cultivation, in districts chrough which the Survey of India parties have already passed, which were left unsurveyed

piration of the various terms of settlement.

A general abstract of the work done by the local Agency Party during the last four years is exhibited in Statement C. From this it will be seen that the operations of the party

by them owing to their unimportance and of such other tracts, too, as are from time to time subsequently brought under the plough. With such minor work S perintendents could always be safely entrusted; also, with the final revisionary work following the ex-

APPENDICES. XV.

have extended over 10 districts in the Pegu, Irrawaddy, and Arakan divisions. The total area that has been surveyed in detail comprises 4,637 square miles, and in traverse 5,677 square miles; of the latter 2,287 square miles was executed by No. 12 Party of the Survey of India Department. The cost, per square mile, of the detail work comes to Rs. 73, and of the traverse work to Rs. 65; the combined cost rate being Rs. 138 per square mile or 3 annas 5 pies per acre. If a deduction is made for the stock of surveying instruments, &c., in hand, in the way indicated in paragraph 56, this combined cost rate is further reduced to Rs. 134 per square mile. The cost of the detail survey, per field, comes to 2 annas 6 pies. The cost rate of the work of the first year 1889-90 is very high; this was, however, due to the initial expenditure in the equipment of camps being considerable and in the field-season of the cadastral section being limited for its work to so short a period as 4½ months only and the consequent small area completed by it in that year. In the three succeeding years the cost was kept down at its lowest limits; to have attempted to go below which would have

proved dangerous to the efficiency of the work.

The proportion of cultivation to waste is rather high, being as 1:4:33. This forms an important factor in the working out of cost rates as the cost for surveying jungle may be assumed to be about one-fourth of that for cultivation; and to this fact is attributable to some extent the naturally low rate at which the survey has been done. But, on the other hand, the average size of the field, which takes a prominent part in the calculation has also to be considered. This is so small as 0:26 having been as minute as 0:15 in the final year of the work, and the smaller the field the proportionately higher contract rate at which the field-surveyors are paid, and the larger amount of office work that it involves—thus, for fields whose average sizes are 1:00, 0:80, 0:60, 0:40, and 0:20 of an acre, the corresponding contract rates of payment would be Re. 0:053, 0:060, 0:05, 0:086, 0:105, respectively, per acre. Then the circumstance of the scattered location of the areas surveyed instead of their being in compact blocks, and the great physical difficulties of the country with the concomitant difficulties of supervision, have also to be taken into account: likewise, the extreme unhealthiness of the tracts and other varying conditions of the work in hand. As regards the traverse section, also, the cost is enhanced by surveying in disconnected tracts and in hilly regions, in which line-cutting through jungle is necessarily heavy and seriously retards the progress of work; it may be assumed to be about twice as expensive to work in areas in which jungle predominates than where cultivation is more extensive. The existence of the large amount of jungle in the tracts operated on by the local Agency Party is due to only such areas being assigned to it for survey as were left untouched by the Survey of India parties when working in the same districts, or where the cultivation was not in homogeneous blocks and sufficiently extensive to be made over to them.

In addition to the work of survey, that of holding-marking has been carried on. As soon as the survey of the revenue-paying lands was completed, kwin traces were prepared in the Cadastral Camp Offices and handed over for the necessary delineation of holdings thereon to the holding-marking staff. All the revenue-paying areas which have been surveyed and mapped have been thus finished. The average size of the holding has been found

to be 3.68 acres.

The total number of fields surveyed was 2,166,299; while the number of miles of line-cutting through jungle, for both the sections, amounted to 12,411 square miles, which serves to show the nature of the country worked in. The number of miles of partalling of the detail work executed by Inspecting Officers was 3,820; one-fifth of the holding-marking work was tested on the ground; the number of angles of the traverse survey observed was 102,406; and the linear miles of chaining (double measurements) done was 1,167—of one-fifth of the former and one-fourth of the latter re-measurements were made owing to the errors of working having been over the percentage allowable. The average number of stations fixed per square mile is 17, the average distance between two consecutive stations 9.11 chains, and the average size of the kwins about 1½ square miles. The number of permanent survey marks (clay pipes and zinc tubes) imbedded and handed over to the charge of village headmen or ywathugyis aggregates 86,372. The angular work of the traverses was checked by 514 azimuth observations (sun and star); and 34 stations of the Great Trigonometrical Survey were connected, which furnished checks to the linear measurements. The partalling and other checks applied to the various descriptions of work done show that the quality of the surveys, &c., was good. This will be apparent, too, by an inspection of the mathematical results of the traverses, where the average corrections are so small as five seconds per station for the angular work and six links per 100 chains of the distances.

During the recess months, after the due completion of the original 16-inch and 2-inch maps relating to the previous field-season's surveys, their lithography and publication has always been undertaken. The litho sheets were prepared in this office and the printing done at the Government Press. On the published 16-inch sheets of the year, the holdings, &c., were marked a pencil, in the usual way, for the first year's supplementry survey work, and these along with the holding traces and registers, area statements, &c., then forwarded to the district officers concerned by the end of November. In this way the traverse and cadastral work was carried on simultaneously, the latter following in the footsteps of the former, on

avi.

its very heels, so to speak, as closely as it was possible to do so; the maps were published in the same year, and the supplementary survey was thus enabled to start its work in the year immediately succeeding that of survey, applying the current revenue rates to the correct areas of the holdings. This resulted in the State gaining at about 50 per cent. on

the previous assessments without any loss of time whatsoever.

As will be seen from the statement referred to the effect of the survey has been to increase the area and revenue (without the 10 per cent. cess) over the thugyis' figures by 178,143 acres and Rs. 2,80,199 respectively. This gives an increase of 48 per cent. in the area and 50 per cent. in regard to the revenue, exclusive of cess. For the reasons given in paragraph 23, the comparisons of the survey figures with those of the thugyis have been made in each case for the year of survey only. The average prevailing rate on the land, per acre, is found to be Re. 1.52.

Error what has been stated above, it is hoped that the work accomplished by the local

From what has been stated above, it is hoped that the work accomplished by the local Agency Party will be considered to have been in every way satisfactory, and that the mis-

sion of the office has been adequately fulfilled.

xvii.

APPENDICES

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STATEMENT A.—Abstract of Work performed by the Cadastral Section of the Lower Burma Field-to-field Survey by Local Agency Party for the year 1892-93-

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e on land per	Average prevailing revenue rate acre.	13		01.1	85.1	1.38	ì		1.63	i	i	84
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(a) Exclusive of the 10 per cent. cent.

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APPENDICES

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STATEMENT B.—Abstract of Work performed by the Traverse Section of the Lower Burma Field-to-field Survey by Local Agency Party for the year 1892.93.

STATEMENT B.-Abstract of Work performed by the Traverse Section of the Lower Burma Field-to-field Survey by Local Agency Party for the year 1892-93

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	· ·	to ti pq t	2) \ 13 14	hilitie hilid	ל ווול ל כסמו פוחן גבל נולד ון	,,			* *		,			5
		, , ,	j un	ור נוון כא	וא מון כם סב זו ורמן ולן	, d		\$ 290	1,00,1	35.	8		•	20,486
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' k'		1::-		וו נכנו	le phibipipis	1 "	-	7 91			8			358
	Tes	1 111	cı on	ics ti	ender fire	N %		· ·		3 1,748	3,143	•		3
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STATEMENT C .- General Abstract of Work performed by the Lower Burma Field-to-field Survey by Local Agency Party between and inclusive of the years

*	1	· in A		1 1		۰	•	, •				
		of maps (of ithogra- nt Press.	Per 3-inch sheet.	11	Rs. A.	2	21 02	61	31 6	6		
		Of publication of maps (in- cluding cost of lithography at Government Press.	Per 16-inch sheet,	92	Rs. A. P.	9 9 9	°.,	3	9	2 0		
	Cost vate.		Per acre. Per field. P.	Per field.	Per field.	25	Rs. A. P.	φ ss o	6 6	* "	v. -	
TONS.		Of detail survey				Per acre.	3.4	Rs. A. P.	•	•	v) ->	2
Cost of OPERATIONS.			Per square mile.	1 ::	Rs	175,42	6	Y S	10	£		
Cost			'lotal,	2	Rs.	*+a:15	1,12,935	976,70,1	10 15 15	1,01,532		
*	dont-	n dəni s to . s bus dəni-	Reduction and preparati and hilograph-work of sheets.	=	æ	5,742	28.8	ž	10,11.	33,013		
		2 110 4 1200	Revision survey.	0.5	28.8	i	I.	70.	. 33	Ė		
	'sdru	s, Sec.	Preparation of supplement registers, area statement	12	2	3,500	4,500	0.01	4.510	15,500		
			Holding-marking.	23	S.	8	177	25.52	1,633	14,779		
			Detail survey.	11	Σ.	47,700	85.	6.6	1,70,153	334 343,38.		
FORE.	-qud	pue panda	Sumber of a inch sheets p	91		Ö.	2	ξ.	£.			
MAP-WORE	-qud	Virtal et at 16 inch sheets prepared and puls- lished.				24	50	1933	1,790	6,007		
.xc.			Accepte size of holding.	2	Acres	8.01	Ę	¥	Ĕ	3.64		
Helding-warking.	Hair	d by inspe	Number of holdings tester officers.	2		623	3,500	2,52,5	81.5	34,122		
Него		·р:	Mumber of holdings marke	5		6,045	1,5,748	19,20	£	35.1673		
	spana stotą	sersion d	vortes of government conformation of the state of the sta	=	Acres			1	· É	. 100		
			Number of miles of partial	10	Miles.	¥	5.	ů,		3,50		
	Suop	Sujjino-au	Samber of miles of little. through jungle,	0	MEe	=	55.7			1140		
ď		waste.	Propertion of cultivation to	90	,		<u>.</u>	2711	50.70	E		
BURYE			Average size of fields.	-	Acres	9.4		**	0.15	9.25		
DRYAIL AURVEY.			Unmber of fields surveyed.	¢		133,111	153,364		1,139,310	3,166,790		
			Area of fields surreyed.	5	Acres.	53,977	159,770	82.83	179,230	1,556,263		
•	specu -11%us	don the tri-	Area of preceding serveyor lation system, instead	4	Sq. mis. Sq. mis.	1	197	5	. 9	Å		
	1/031	naga: wand	forts are a lo some letol' supported to bus ablest gnically	3	Sq. mis.	782	3	1,5%	£.	4,637		
	-	al b:	Number of districts operate	- 1		· ·	10	-	- 10	1		
	j					989-00	· ·	: 6	1892-93	Total		

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he Lower Burma Field-to-field Survey by Local Agency !	
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		Cost rote.	square mile. Of pipe embedding, per pipe.	15	Rs. Rs. A.	Not given.	- 5	•	* .	
	710NS.		Of traverse survey, per	8			192	82,176	87,901	1
	COST OF OPERATIONS.		Total cost.	\$		1,33,332	1,16,267	8,		
	C057 0		Revision survey.	8	Ŗ.	1	3,927		· 37	
		reparation and kyle).	Pipe embedding (including pi service of notices to ywalling	47	8.	Not given.	39,546	8,103	1,84,7	
		dənis 10 ga	Traversing (including plottin	97	Rs.	1,33,33#	\$2,794	74,073	79,653	
		in and in	Average error per to chains, in tinks,	5	Links,	9.0	5	9	. 8	
		Matterarital results	Average angular error per atation, in seconds,	4	2-014-30	O.	v ,	m	٠,	'
		Svitusosuus ua	Average distance between twattons.	5	Chains.	şo.5	8.37	10:35	873	
		zed per *quare	Average mumber of stations in	4		, ·	ę	ō	2	į,
CTION.		Number of imples par- Aumber of linear unites Aumber of permanent marks imbedded and handed over to ciarge of yaminagyis. Average size of kwins (exclusive of juncle		=	Sq. miles.	Ë	17.6	86.	9	
TRAVERSE SECTION				\$		22,747	24,798	165,71	21,536	
TRAV				65	Miles.	(2)009	e)000	708	Š	
	VEY.			38		5,000(a)	5,000 (ul	4,739	ž	Γ
	TRAVERSE SURVEY.	2 ft 0 i J i, 7758t	Number of subtense-but of	H		i	i	8	8	
	TRAV	open su	Number of G. T. S. connection	8		•5(a)	\$60.	n	=	
			Sumber of azonuths observe	35	-	15001	(50.0)	Z	ž	
		oùob gaittus	Number of miles of line- through jungle.	Ħ	Miles.	1,000(0)	1,000(4)	1,827	3,135	.
		oldnob) guini	Number of tracar miles of cha- mensurements) done.	33	Miles.	2,952	0,0,0	2,565	7.55	
			Number of angles observed.	8		15,000 4)	28,000(a)	18,936	29,470	
	Ì	anw atitohoad	Number of stations at which the	F.	- co-determ	35,106	16,937	91741	28.01	1
		Number of sub-tracerser run. The desire to reduce as a which theodolite was		26		Ş.	13	54	9 .	
P.		(sapoqq apin	Kwin traverses (exclusive of ju- surveyed and photted.	2	Sq. miks.	923 :	1,380	100,1	gar.i	
		Main and inmot cheults entreyed,		3.8	Sq. mites, S	628	1,364	25.23	1,803	
	-			T	VI.	1.		j	7	
			Year.	-		1889-90	18-0681	1891-91	18pp -93	a, i

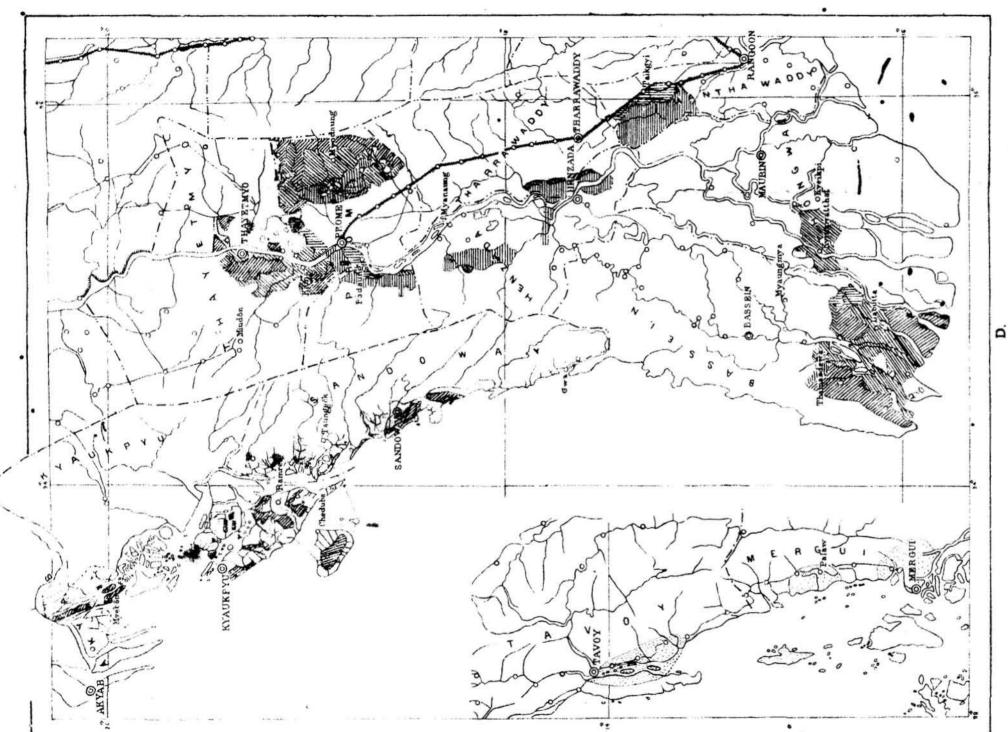
Statement C.—General Abstract of Work performed by the Lower Burma Field-to-field Survey by Local Agency Party between and inclusive of the years 1889-90 and 1892-93—concluded.

		Remarks.	i e	74			(a) The trackree work for 1800-91 was done by No. 12 Party, Survey of India,				
· /	l per acre.	enne rate on lane	Average prevailing rev	2	Rs.	6 *	1.51	1. 82.	1.48		131
GYIS.	NTAGE F	cese,	In revenue exclusive o	73	Α.	4.	S.	79	Vi,		8
THU	PERCENTAGE OF INCREASE.		In area.	5	Acres.	:	¥.	V,	25		æ
RES OF			nerease.	70	Rs.	25,000	61,321	1,10,077	53,801		2,80,199
ING FIGU	NUM EXCLUSIVE OF CALCURENT RATES.	, sons	Calculated on thugyis	66	ě	53,152	1,70,033	1,70,599	1,62,521		5,56,707
ESPOND	REYEND OF CESS, AT CURRENT RATES.	n.cu*	Calculated on survey a	196	Rs.	78,189	2,31,356	1,80,776	2,46,522		8,36,906
ING LANDS OVER CORRESPONDING FIGURES OF THUGYIS.	•	1	Increase,	7.0	Acres.	990'91	\$76.05	55,597	\$6,598		175,143
ANDS OV	AREA FOR VEAR OF SURVEY.	According to thuggie.		8	Acres.	36,451	113,624	112,568	119,074	1	372,717
ING L	AREA	(and of which marked).	According to survey holdings bace been	59	Acres.	52,451	153,573	178,165	166,672		550,860
		8	Per square mile.	<i>z</i>	ž	Ŧ	ö	¥	ķ	1	. 5
	REDUCKD OAST WITH PRESENT VALUE OF STOCK IN RAND ALLOSTED FOR AS CALCULATED IN POREGOING COLUMNS.	For traverse	Of cuting stea.	63	Rs.	1,33,332	82,794	74,073	67.077		3.57.376
VEY.	FOREGUIN	Squark little marsi	Per z-inch abeet.	25	Rs. 4.	34 12	22	17 10	4 6		23 12
TRAL SURVEY	ESENT VA	Pre lithegraph majourit (withing ours, lithe- graphy at Groemars) Prats,	Per 16-inch sheet.	19	Rs. A.	S 91	3 8	11 3	0.		2
DASTR	A CALCU	Per liths (trefts) graphs	Of all the sheets.	8	Rs.	5,742	187 287	21.5%	9,145		32.010
ND CA	D FORT A		Per square mile.	83	ž,	173	6	₩,	\$		
VERSE A	REDUCED COST WITH ALLOWED FOR AS CAL	For detail sure sy.	Of entire area.	85,	.R.	47,700	97.20	620'16	92,437		3,28,516
F TRA	ATICAL HICRE, KLESS EAR,		For traverse survey.	57	Rs.	:	ľ	i	909'81		\$6,51
VORK C	VALUE OF NATHENATICAL NASTRONENTS, FURNITCER, AND TENTS IN STOCKLESS FOR WEAR-AND-TEAR,		For map section,	36		:	1		. 200.1		1,003
COMBINED WORK OF TRAVERSE AND CADAST	YAÈUE OF NATHENATICAL INSTRUMENTS, FURNITURE, AND TENTS IN STOCKLESS FOR WEAR-AND-TEAR,		For detail survey.	. 55	*	:	i 	ı	7,846		7,845
COM		retoil v.g.	ריפד מכרפ.	t.	٠ -	%	Ϊ.	2 7	• " .		, bi
	Carrain	traverie on detail	Per square mile.	2	2	31.9	32	3.	0:1		138
	(9	einzoss ili accounte.	Total cost of operation	33	Re.	1,91.176	2,29,122	1,89,835	1,11,054	1	- 13°
	8	Year.				0 6- 6931	1830-01	164691	66-1681		Total

DEPARTMENT OF LAND RECORDS AND AGRICULTURE.

A.-Area under Supplementary Survey and Cost of the Operations.

to	l.	·s	Remark											
		r acre column	1892-93	Pies.	3.26	2.50	01.9	2.16	16.9	5.21	4.65	10.7	5.14	5.31
6 .		Cost per acre shown in column 64	1891-92. 1892-93.	Pies.	3.60	19.5	5.65	7.17	6.33	6.13	5.15	6.77	i	5.65
		uare mile area.	1892-93.	Rs. A. P.	0 11 2	8 10 9	10 8 10	7 1 4	1 0 8	7 0 7	6 12 9	5 1 1	4 12 3	7 4 10
\$		Cost per square mile of total area.	1891-92.	Rs. A. P.	8 1 6	8 15 3	8 14 7	9 6 4	1 9 5	7 5 11	6 1 2	5 6 0		7 12 9
	ost of		1392-93.	Rs.	15.519	13,761	12,780	928,11	23.964	12,536	688,21	16,22-	1,335	406'72'
7	Actual cost of	supplementary survey opera- tions.	1891-92.	Rs.	16,245	16,275	10,792	11,894	19.747	13,153	13,078	7,837	:	1,09,141
	PTION.	- di	1892-93.	Acres.	829.339	581,482	365,069	318.420	662,878	437,651	106.203	779,170	49,892	4.527,822
9	RARY EXEN	Total.	1891-92.	Acres.	792.038	550.715	349,844	293.763	599,228	411,729	192,784	189,222	;	3,707,252 4.527,822 1,09,141 1.22,904
	ER TEMPO	d mis- cuiliva-	1893-93	Acres.	12,408	37,713	19,121	45,726	28,977	6†2'05	23,210	61,402	660,61	301,207
ı,	HELD UNDI	Gercen and mis- cellaneous cuitiva- tion.	1891-92.	Acres.	12,476	36,292	17.768	34.778	28,093	33,360	27,776	43,147.	:	233,692
	Area assessed or held under temporary exemption.	j.	1892-93	Acres.	\$16.651,	543,767	346,948	169'22'2	633,601	387.102	169.82	717.768	33-793	4,226,615
+	AREA 35	Paddy.	1891-92.	Acres.	779.552	514,423	333,076	258,585	571,133	378,369	459.485	179,537	i ,	3,473,560
		miles.	1892-93.		2,019	818,1	1.211	9/9'1	16612	1,785	1,845	3.202	280	16,830
3		Total area in square miles.	1891-92.		2,019	818,1	1,21;	1,266	2,603	1,785	1,839	19;11	i	14,002
		of cir-	1892-03	21	38	37	27	26	63	.31	99	40	. 21	399
CI .		Number of cir- cies.	1891-92, 1892-03, 1891-92, 1892-93.	ne Santan	38	37	27	25	22	31	7.4	61	:	355
				+ ,	:	j	:	:	:	:	:	:	i	* :
	•	District.		*	Pegu	Hantha vaddy	Tharrawaddy	Prome	Bassein	Henzada	Akyab	Thongwa	Thayetmyo	Total



Andex Map

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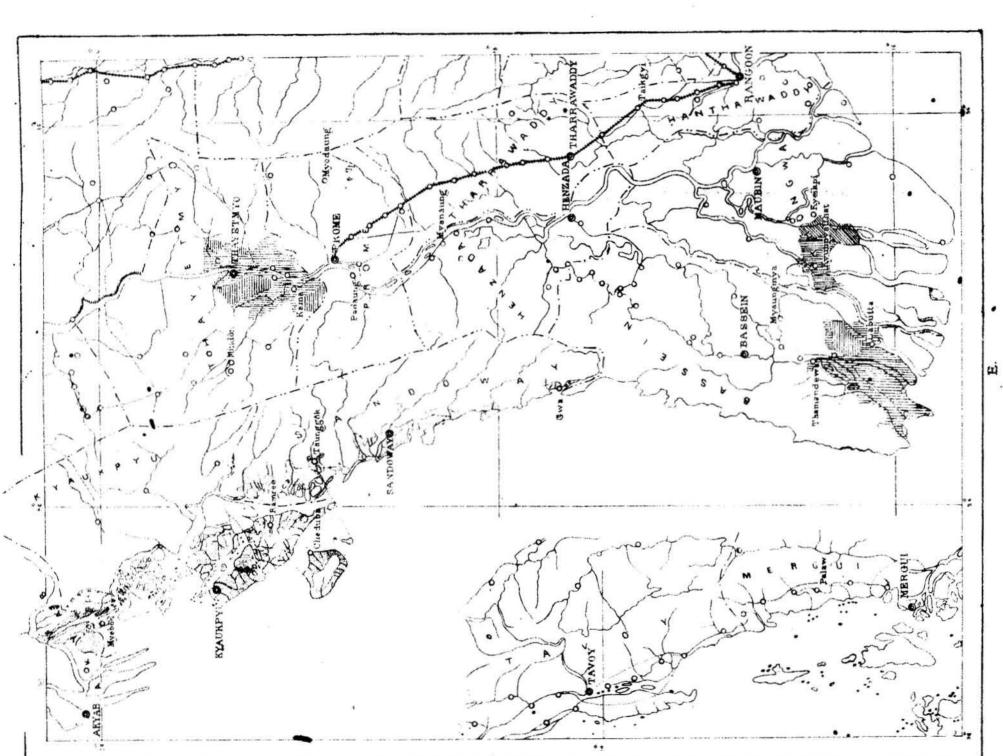
LOWER BUREL

O ALMONO

TRACTS OF COUNTRY SURVEYED, FIELD-TO-FIELD, BY LOCAL AGENCY IN 1892-93 Area left to be surveyed on plots of local traverse camps Jungle blocks excluded from area originally sketched out

Scale, 1 inch == 98 Miles.

2



Index Map

TOMES

TRACTS OF COUNTRY SURVEYED IN TRAVERSE BY LOCAL AGENCY DURING 1871.93

Kwin traverses outside of main circuits Kwin areas surveyed in 1891-92, but rev Jungle blocks inside of main circuits

Kwin traverses surveyed in 1891-92

Jungle blocks inside of main circuits surveyed in 4891-92
Kwins surveyed by No. 7 Party, Survey of India, but of
plots were furnished by local traverse camps in 1891-92

APPENDICES.

.B .- Assessments in the Tracts under Supplementary Survey.

District			Paddy	-land.	Garden an laneo		Tot	al.	,
District			1891-92.	1892-93.	1891-92.	1892•93.	1891-92.	1892-93.	Damada
	1		2	3 •	4	5	. 6	7	
Pegu Hanthawaddy Prome Bassein Henzada Akyab Fhongwa Fhayetmyo			Rs. 15,71,916 11,39,756 5,86,904 2,67,023 9,21,815(a) 6,99,418 9,52,142 7,53,429*	Rs. 19,02,386- 11,84,817 6,41,089 2,84,204 9,91,753 7,14,012 9,73,552+ 11,52,062 36,879	.Rs., 27,036 88,896 37,751 72,865 69,637(a) 80,373 54,404 33,083*	Rs. 27,177 92,925 39,466 81,807 71,444 1,12,141 58,308; 54,880 19,210 5.57,358	Rs. 15,98,952 12,28,652 6,24,655 3,39,883 9,91,452(a) 7,79,791 10,06,546 7,87,112*	Rs. 19,29,563 12,77,742 6,80,555 3,66,101 10,63,197 8,26,153 10,31,800 12,06,642 50,089	

^{*} Revise* figures.
† Including Rs. 870 tanngya-tax.

C .- Agency by which the Supplementary Survey was conducted.

District.	Number of circles.	Number of thu- g y is who have quali- fied in sur- veying.	Number of thu g y is who actually took part in sup- plement a r y survey,	class in a high	it was neces-	Remarks.
1.	2	3	4	5	6	7
Pegu	37 27 56 42 51 66	32 32 20 21 29 37 26 26	38 35 18 10 22 37 10 26 3	36 36 25 55 41 42 60 40	16 10* 13 13 29 3 1 28	*These ex- tra hands were em- ployed till April.
. Total	378	237	199	356	113	

D .- Supplementary Survey Inspection.

		swins in tract supplementary	wideh check- ndent.		NEK DON		of kwins, the of which was Land Records	he reld check-		DONE BY			BUNK BY	
District.	Year.	Number of kwins under suppler	Number of kwins to wideh the held work war check- ed by the Superintendent.	Number of In-	Number of kwins checked.	Ачтаде.	Total number of kwi field work of which checked by Land staff.	Number of kwine, the reld work of which was check- ed by the Deputy Com- missioner,	Number of Sub- divisional Officers.	Number of kwins checked.	Arczige.	Number of Town-	Number of kwins checked,	Arerage.
Pegu {	1891-92 1892-93	924 924	81 78	:	428	107	509 . 530	21	2	18 54	y 20	. 5	9t 99	18 20
Hanthawaddy {	1891-92	1,305	110	4	550 552	137	619 651	72	1	8	8	4	65 45	15 11
Tharrowaddy {	1891-91	506 500	77 81	4	362	70 90	395 443	26 12	2	111	5	5 5	19	1
Prome {	1891-92 1892-93	772 980	119	1	297 517	73	411 632	21 19	3	32 45	15	4 5	28 48	10
Bassein {	1801-92 1802-93	1,383	159	. 9	809 1,043	110	782 1,098	27	•	3º	7	8	118	8 15
Henkada {	1801-92 1N92-93	.835 835	105	5	383 455	76 91	487 555	- an	4	31	. 11	6	102 86	17
Akrab {	1891-93 1892-93	1,010	50	5	459 553	92	518 645	7 8	3	69	23	5 6	*30 55	91
l'hôngwa {	1892-93	1,315	40 136	7	516	53 74	251 652	=	. 1	18	5	9	11 19	5
Thayetmyo {	1891-03 1893-93	199	69	,	61	61	117	= 1			::	:::	= ;	=
Total {	1891-92	7,321 8,778	769 992	38 43	3,410 4,550	91 106	3,072 5,373	187	10	169	8	39 47	489	13

er Including Rs. 34 fruit-tree tax.

APPENDICES.

E.-Result of Corrections.

				E.	FFECT OF CO	DRRECTIO	N		
District .		Total	increase.	Total	decrease.	Net i	norease.	Net a	lecrease.
27.501.101	•	Area.	·Revenue.	Area.	Revenue.	Area.	Revenue.	Area.	Revenue.
1		2	3	4	5	6	7	- 8	9
		Acres.	Rs.	A cres.	· Rs.	Acres.	Rs.	Acres.	Rs.
Pegu		183	489	26	219	157	270	***	
Hanthawaddy		423	943	309	564	114	379	***	
Tharrawaddy		509	850	14	42	495	814	17.4	1
Prome		303	335	11	250	292	79	***	***
Bassein		1,869		221	2,721	1,648	1,429		
Henzada	***	713	1,323	47	362	666	961	• •••	
Akyab	***	548		290	748	258	757	***	
Thôngwa	***	611	1,390	112	214	499	1,176		
Thayetmyo	***	90	137	18	243	72			100
Total		5,249	11,128	1,048	5,369	4.201	5,865.		106

F.—Table showing the nature of Errors found by the Superintendents and Inspectors.

(a) New plots wrongly surveyed.

		f new fields checked by endert or In-	NUMBER O	F SUCH PLOT ORS WERE FO	TS IN WHICH	*1
Distr	ict.	Number of new or plots checke Superintendent of spector.	Errors amounting to 3 an acre or more.	Frrors of less than an an	Total number of errors,	Remarks.
1		. 2	3	4	5	6
Hanthawaddy Tharrawaddy Prome Bassein Henzada Akyab Thongwa	••	 2,964 1,597 1,773 366 1,604 799 1,660 798 399	46 08 95 22 124 44 40 131 32	257 110 583 84 249 254 205 149 46	303 178 678 106 373 298 245 280 78	
Tot	al	 11,960	602	1,937	2,539	

(b) Omissions to survey new plots.

			1	NUMBER	NEW PLOTS P SURVEYED.	TON GRUO	
	Dist	rict.		Errors amount- ing to ½ an acreor more.	Errors jof less than ½ an acre.	Total number of errors.	Remarks.
		ı		а	3	4	5
Pegu Hanthawadd	ly		:::	50 251	670 808	720 1,059	
Tharrawadd	y			100	820	920	
Prome	***	***	200	102	453	555 1,988 883	
Bassein	***	***	***	509	1,479	1,988	
Henzada	***	•••		232 82	651 480 699	562	
Akyab Thongwa	***	***	:		600	1,023	
Thayetmyo		•••		3 ² 4	130	207	
		Total		1,727	6,190	7,917	

F. Vable showing the nature of Errors found by the Superintendents and Inpectors—continued.

(c) Errors in marking fallows.

			marked checked	FALLO	W PIELDS	SHOWN		VVATED F		
D	istrict.		Number of fields marked fallow that were checked	Errors amounting to \$ an acre or more.	Errors of less than ½ an acre.	Total number of errors.	Errors amounting , to ½ an acre or more.	Errors of less than 4 an acre.	Total number of errors.	Remarks.
	i		2	3	4	5	6	77	8	9
Pegu			11,512	47	475	522	17	59	76	
Hanthawad	ldy	•••	10.242	91	660	751	27	26	53	
Tharrawad	dy		5,696	60	989	1,049	.5	63	68	9
Prome			11,814	440	1.779	2,219	76	248	324	
Bassein			56,049	1,197	5,289	6,486	369	1,460	1,829	
Henzada	***	***	8,612	196	2,548	2,744	30	.467	497	
Akyab		***	39,031	15	1,886	1,901	. 48	212	260	
Thôngwa			2,224	266	1,067	1,333	48	68	110	
Thayetmyo			2,595			690	•••		415	
To	otal		1,47,775	2,312	14,693	17,695	620	2,603	3,638	

⁽d) Lands wrongly classified and errors in field boundaries in the interior of holdings.

	CLASSIFICAT	ION OF LAND.		LDING BOUN- RRORS.	
District.	Number of holdings visited.	Number of holdings in which land was f o u n d wrongly classified.	Number of boun- daries checked.	Number of boun- daries in which errors were found.	Remarks.
1	2	3	4	5	6
Pegu	4,732	18	7,782	126	
Hanthawaddy	8,319	86	8,930	413	
Tharrawaddy	10,936	30	37.355	555	
Prome ·	2,600	30	11,463	377	
Bassein	15,252	35	16,640	282	
Henzada	8,451	90	56,822	4+477	
Akyab	2,053	12	23,023	426	
Thôngwa	958	388	15,161	1,067	
Chayetmyo			4.059	627	
Total	53,301	689	1,81,235	8,350	

F.—Table showing the nature of Errors found by the Superintendents and Inspectors—concluded.

(e) Errors in noting sales, transfers, and sub-letting of land.

A Comment of the Comm	7		, and the second second second						
	TENANT S	STATIS-	STATISTICS TRANSFER GAGES	S, MORT-	KAZIN BI	RRORS.	Отна	RS.	
District.	Number of cases of sub-letting checked.	Omissions to note or errors in showing tenancies.	Number of cases in which sales, transfers, and mort gages were checked.	Omissions to show, or errors in noting terms of sales, transfers, and mortgages.	Number of fields checked.	Number of errors.	Number of fields checked.	Number of errors.	
·,, I	2	3	- 4	5	6	7	8	9	
Pegu	5,813	576	3,904	181	140,899	3.375	1,209	114	
Hanthawaddy	2.524	267	718	229	211,655	3,485			
Thorrawaddy	2,662	507	1,530	279	83,292	5,232	892	:	
Prome	5,270	295	5.979	292		1,578	•	. 450	
Bassein	2,598	893	362	123	243,651	4,318	5,648	1,083	
Henzada	3,232	591	803	193	64	33	193	123	
Akyab	5.927	320	891	172	342,370	4,837	3,723	392	
Thôngwa	921	701	420	312	349	349	1,705	1,697	
Thayetmyo	103	33	138	62			42,510*	246	
Total	29,056	4,183	. 14,745	1,873	1,022,280	23,207	54,988	4,105	
4.0000000000000000000000000000000000000			Marian — common		Real Property of		formula in the	les conse	

^{*} Including Kazin errors.

G .-- Condition of the Permanent Survey marks.

		permanent in the dis-	s visited by sayès.	N	Number	OF MARKS				
District.		Total number of survey marks i trict.	Number of marks visited thugyis and talksayes.	Found broken.	Re- placed.	Missing.	Re- placed.	. F	Remarks	
1		2	3	4	5	6	7	e	8	
Pegu	1	12,122	7,411	1,134	1,128	964	960			
Hanthawaddy	••••	16,992	10,070	1,049	1,049	360	360			
Tharrawaddy	:::	10,832	5,523	176	170	270	196			
Prome	:	20,401	10,798	2,669	2,312	279 183	183			
Bassein		41.921	17.508	1,630	1,630	1,302	1,302			
Henzada	***	28,974	18,282	1,104	844	1.573	734			
Akyab	•••	11,173	8,655	639	. 639	250	96			
Thôngwa	***	38,141	16,400	1,845	141	2,403	19			
Thayetmyo	• ***	4,124	4,124	68	25	7	, 2	* 3		
Total	•	190,680	99,431	10,314	7,944	7,321	3.852			

H -Thugyes' commission and Thugyes' assistants' salaries

					Тн	THEGYIS COMMISSION	10	Ded	DEDUCTIONS MADE PROM I HUGHIS' COMMISSION	FROM I H	U6115		
Ž	•	Number	V	Total area]	For Th	For Thugyssiyes			Balance Dad to	Remarks.
	District.	Thugy is	10	terpor .ry	On lard reverue	Or cap tettor tax and o her taxes or retes	Total	Number	Arount per	Chain- men	lota	Thugyis	
		_		Acres	Rs•	Rs	Rs.		Rs .	R	Rs	Rs	
Pegu		38.88	1801-92	792 028 829 359	88 452	26,481	1,12,333	48	18,50	2,429	21 399 22,869	93 934 99,925	
Hanthawaddy	:	37	1891 92	550,715	65,701	25,195	96 890	36	14 233 15 890		14,233	76,663	
Tharrawaddv		27 Z	1891 92	7 of 8 of 8	3°,045 31,376	22,474 22 041	53 419 54,320	∓‡	12 362	3 802	16 75	34 669 36,429	
Prome	ì	58	1891-92 1892 93	293 763 318 420	18 467 20,951	28,77	145 94	# 9 •	12,24	3 108 3,194	15 560	30 915 31,600	
Bassein			1891-92	500 228	70 771 62 245	27 311	98 082 91,217	9 %	20 944	9,578	29 722 34 634	78 560 56 583	
Henzada	;	44	1891-92 1892 93	411.729	35,413	32 877	68 320	\$ 	13 957	2,782 2,913	16,739	53,674	
Akyab	ı	14 34 83 44	1801 92	487,261	79,365 57,701	30,°26	88,917	25.25	21,782	3,255	25 - 37	63,154	
Thôngwa		6 4 	f891-92 1892-93	222 684	26,807 So,820	31914	42,554 1.20 734	61 42	6,180	2 = 97 5,049	8 777	33,777	
Thayetmyo		22	1891-92 1892 93	1 49 592	5 7.4	8,176	13 450	15	1,608	986	2,594	10 856	
**	Total	331 373	1891-92 1892-93	3,707,252	3 96 c11 4 65 043	237,922	6,05 376	327 399	1,22,186	27 937 32,479	1,50,123	4,55,253	

I. Survey Examinations in Lower Burma.

		Numbe	R OF CANDID			
District.		October 1892.		April 1893.		
		From Government survey schools.	From other schools or private students.	From Government survey schools.	From other schools or private students.	Remarks.
I		2 :	3	• 4	-5	. 6
Akyab Kyaukpyu Sandoway Rangoon Hanthawaddy Pegu Tharrawaddy Prome Bassein Thôngwa Henzada Fhayetmyo Amherst (Moulmein) Shwegyin Toungoo		9 6 8 5 11 8 15 19 46 	3 1 3 4 1 2 1 1	10 9 12 9 15 15 11 13 7		
Total	•••	103	18	- 117	'26	

11.—Survey Examinations in Upper Burma.

		Numbe				
District.		October 1892.		March 1893.		
		From Government survey schools.	From other schools or private students.	From Government survey schools,	From other schools or private students.	Remarks
		2	. 3	4	5	6
Mandalay Bhamo Katha Shwebo Ruby Mines Ye-u Sagaing Lower Chindwin Upper Chindwin Myingyan Pakôkku Minbu Magwe Lyauksè		· · · · · · · · · · · · · · · · · · ·		22 14 	20 4	€ Ur
Meiktila Yamèthin Pyinmana	otal	-:::		73	38	į.

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FORM NO. 1.—Table Mounng for each Township Statistics of existing Circles for the year ending 31st March 1803.

	Rem ths	30	(a) Excited ug the Tanksave of Myoma circle, who was energed for a coople of months only. b. The averages in columns is and is are calculated excit of the circles in which there were to thugh is						on evel after 31st Verein This is Fur	if e Land Records Report than the lane retired on	rifer (co	He is not move a in the return		"s he res 111,422 acres included	ion from re enue whether custinated or		
			(a) Exclud m who was only to the ater we there we			<u> </u>			c Irch ding	nears o'	Appeter 19	1 401100		Last cal	t not	0	11
<u>.</u>	Mumber previously ap going of the though the feet the required to take the survey eximination, has a not vet t asset	61			Placement PA					-							
Тяболь	Member of those newly not 1 seed trans	18										-	•	_	•		-
	Amber new h appointed	=		_		_	_		-	3	<u>.</u> .	-		-			
FER INTER	Holding the year	15 16	935 935 934 934 935 175	1074	0,140	2 47	1 1.9		1	2	5.3	11/-	. H	-	3	7.5	
Avence . In. vi	r off byte retin)	7	AAA. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1 5 1	0,04	311	1 81 +	-		- 6	£ &	9 5	3,547	" Y	44.	414	
or reg ly	*SurptoH	2	889,11	14,618			84,73		15,54		-		-				442.5
Area or PE	Cultivated are:	2	Acres	100,928			8,07.1		13,344			 '.			,		16 ./!4
•	Number of holdings	=	25.5.2.5.2.5.2.5.2.5.2.5.2.5.2.5.2.5.2.	73,430	25.7 25.7 25.7 25.7 25.7 25.7 25.7	70	136 70	9*	24427	4 085	34,957	8.	160.05	100,170	104	657 11	1,11,278
REVENUE	Total assessment	01	Rs 41,727 67.24 98.178 1.56 9-1	220 St 6	15, 14, 15, 15, 15, 15, 15, 15, 15, 15, 15, 15	57,158	9,43, 30	15,.02	10,41,192	950**	40,413	16,746	0,62	1.54,1.9	37 13	58,30	11278211
AREA AND REVENUE	boleville)	۵	23,314 7,55,11 7,549 5,749 5,217 62,317 64,973	142,000	35.91 14.911 4.53 5.73 5.73 11.537	*4515	549,157	92,731	×41,033	10,173	10,496	73	20,0%	12 901	10,401	23.557	618,570
	עסניין ישנים סן קופונגורנ ב	٥	34,9.0 .78,400 1.8,345 197,034 4.29 344 1,7 1,9	1,181,102	153, 180 46, 994 254,0 < 60, 188 75 098	14,7	4,600	92 751	0 71170	64,,600	oty .c	3,411,00	1 1,6m		324	3,450,645	804,69,408
8	јанкачав	-	4040225	63			-		2	,	n =			-!		25	v
Norber of	signat	٥	-50 . 00 20	8.		9	65		63	ž	 . :	-	40 a	- 40	-0-	E	£1. \$
_	Resentation Inspectors			75 5	n .	E	1	-	7.		- 2	۰	, 9	11	2 2 °	1,	136
	Yumber of circles	-		_		1			. L	_		-		,		_	
	Tokaship	c	Settles Testi, Akeab Penkiaw Whobs a Kaladan Wohanog Unitanng Rathedaung	Total	Panktaw Norbra Ka adan No onar bg Unitawag Rathedaung	Total	Total Serifed and	Waste-land Grants	Total, Agias	Paletwa	Kvukpyu Ramree	Αn	Ched tha	, Total	Centra.	Total	Total Arakar Division
	Dietrict	-		Akvab 4					٠	Vorthern		Krauk -			S. opus		
	Division.	-1		-		_==	-		NVN				==				

FORM NO. 1.-Table showing for each Township Statistics of existing Circles for the year ending gest March 1893-continued.

	Remarks.	S	(a) There are six agricultural circles in charge of his thugy is.	The thingst of Bawle died during the month of March. By a recent order his place will not be filled up	* includes Rs. 524 assessed after	(r) All passed,			(a) Three circles are brought un-	de lie j waling y raj steni.		
	pract not let busing lines. Communical calmical to base the bounce who they founds becomen at	9	3	4±8	*	. II I I I I		- .	(6)			е.
TRUGYIS.	Vaniber of those newly appropriate of the based carmburden or principal appropriate the property of the proper	13.		::::	.	1:9:::	:	111:11	1	1111111		ı
	Mornber newly appoint-	1.7	t in the second		-	1 19:11	5	1111	1	1111111	:	٥
No.	Number newly appoint-	93		1::::	:	11111		11111	:	1111111	:	:
		15	٠,	455 665 1,046	179	1,103 1,091 1,076 753 015	914	2,702 2,506 2,519 2,851 1,925	2,505	2653 275 275 275 275 275 275 275 275 275 275	2,964	1,763
Autam pres Thuram	, com bongulin')		Acres.	15,157 17,313 15,243 17,454	116,311	20,639 17,723 27,561 24,085 24,085	23,031	17,531 15,534 13,027 5,750 3,564	13.011	64.8 6 6.7 6	5,315	13,528
7 PER 0F.	11oldtogs.	Ľ.	3	4,542 4,077 8,530 5,219	5,027	8,971	8,971	18.891	18,892	13,985 39,000 44,890 59,145	37,055	16.693
AVERAGE PER INSPECTOR.	core bolevilla')	=	Acres.	161,869 156,092 19%219 87,321	150,575	219,273	219,273	701,107	1 207'16	41,636 41,830 115,940 115,387	78.948	128,117
3	Number of heblings.	=	5. 5.	2,444 2,013 3,03 3,03 3,03 3,03 3,03 3,03 3,03	\$27.705	6,526 6,549 6,197 6,197 6,197	35,783	15,211	75,357	20.00% 20	148,331	\$63,899
AND STUENTS.	Total assessment.	07	Rs 20,894(3%	3,12,336 3,25,537 4,13,73 1,3,73 1,3,73	*5:0'62':1	2,44,25,45,45,45,45,45,45,45,45,45,45,45,45,45	17,55,736	1,84,100	6,32,392	50.158 45.158 20.151 20.151 60.154 30.175	3,06,340	3,318,531
4	Collyvated.	0.	5,983	161,550 (3 155,000 (3 198,219 (4 7,3311 (4)	503,455 13	165,113 2, 105,337 2, 192,925 4, 172,679 3, 220,039 4,	877,093 17	105,484 1, 92,301 1, 104,216 1, 68,459	377,528 6,	41,535 4,035 1,834 01,839 21,145 94,011	•315,793 3,	2,177,996
	Total area of district.	···	14.080	293,067 231,986 293,269	1.345,585	457,516 315,07 256,315 277,936 261,250	1.553,954	451,840 454,710 208,640 240,040 133,750	056,585,1	645,120 139,550 5,750 128,261 114,539 457,200 355,840	1,847,550	5,951,350 2,
	s-yes Air T	1	• 1	5 0 D in	37 1.	5 - W 10 -	39 1.	5 0 0 0 0	34 . 1,	hh-mong	14	: 14
	Thugy's.	0	15	50210	33	1001-00	38	0000	20.02	ï∞ n o o o o o	95	101
	Revenue Inspectors.	"	•••		-	[-	1	4		7	4.1
	Number of circles.	-		3020	37	\$0000	15	00000	33	1 +0000+0	ŞŞ	171
	Township.	1		Kungyangon Tunte Hunavsi Hialng	7	Paragale Panoglin Kawa Pagandung Kyauktan Kyauktan	Total	Sanywe		Padaung Shwedaung Shwedaung Strome Prome Trome Thegon Shwede Shwele Mahathaman Shwele	Total	Total Pegu Division
	District.		Rangoon Town	Hanthawaddy		Pegn		Tharrawaddy		Prome, ~		

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10 20

1,748

3,171

33,215

642'05

66,431

1,10,531

661'021 1,031,559

15 1,534,050 9,513,216

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35

2002 8

Myede Thayetmyo Mindon Kama

.

101

Irrawaddy Division

Total !

Total

88,372 13,456

661,984

(a) Includes five Ywathogyis from Ngapulaw circle.

2,585 1,010

17,739

96,0.7 81,890 51,801 41,1867 41,1867 41,1867 41,1867 41,1867 41,1867 41,1867 41,1867 41,1867 41,1867

1.589

9.43 3,834

17,759

88,520

1 161,88

443,102

1,373,537

v | 5,

Zahn Henzada Okpo Lemycthna Kanaung Myanaung Kyangin

Henrada

1,388

33,215

60,349

1,261

7,289

75,260

161.39

633,518

3,087,413

17

1

Remarks. FORM NO. 1.—Table showing for each Township Statistics of existing Circles for the year ending 31st March 1893—continued. Unsettled, napor previously ap-pointed who, though survey examination, tellulated to passed, 2 1,781 1,590 1,990 1,500 1,500 1,643 AVERAGE PER. 19,633 AVERAGE PER IN-SPECTOR. 8,005 7,587 1,587 1,77 1,673 1,517 6,237 6,237 9,382 7.289 2 Acres. 54,456 40,580 40,424 103,549 102,350 111,189 8.85.4 55,574 AREA AND REVENCE. 01 785,325 25,005 25 84,486 49,580 103,580 103,280 103,280 103,280 11,871 11,871 Cultivated Area in acres. 208,754 725,000 309,622 374,142 852,145 190,501 393,044 187,173 1194,889 1195,887 1195,8 3,518,176 20 NUMBER OF Township. Ngaputaw Myaungmya Thigwin Kangyide.ng Bassein Kyonyiaw Yegri Bassein town Thabaung Myaungmra Ngaputaw Districts Bassein

- Division,

Exclude the Upper Furma portion

FORM NO. 1 -Table showing for sach Tounship Statistics of existing Circles for the year ending 31st March 1893-continued.

AREN D RF FULF	District The state of the stat	3 4 5		Moumeir , 1 1 1	Yelamange 8 18 18 18 18 18 18 18	Total . 1001 . 100	Central Vartern S South Eastern 16 16 19 19 19 19 19 19	Total 4 1 30	Megan	Total 34 1 15
AREN D RE FREE		-	-	-		101	~~ ~~~	-	0004-	-
MRFR LF AREN D RF PVLP		-		-		•	~~ ~~~	-	00 m =	-
MRFR LF AREN D RF PVLP	ल्यत्रञ्जुस्या ज ॥३७५५	1 1			~	1 1	~~~ 	4	-:-	-
AREN - D RF FWLF	P 1 111 [7]	1.							P444	
AREN D RF FULF	Progress	1			÷. ÷.			_	The second	
21 - 5 RP F4L*		-		oyé s	65. 51 65. 61 65. 61 65. 11 65. 11 65. 11 65. 11 65. 11 65. 11 65. 11 65. 11 65. 11	01/ و27 ر	414,199 1 9 470 2 69 6 01,500	4 ,76 000	2 268,890 2 44,400 1 7,59-000 1 2,57 2.50 1 416,000	6 . 4.00% 130
אם הער.	(.ilin x ic l	8		7,305	41.8.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	1 601,191	130 5 11 273 12 130 130 6 130 6	4- 3vt	28,0°9 17,4°2 3 5,0 3,101	60.034(3
	firmersea left I	01	Ŗ	4,444	1, 2, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	\$14,012	1 1 7 2 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	111-7	2 2 2 6 1 1 1 1 2 2 6 1 1 1 1 1 2 2 6 1 1 1 1	1 101 101
	Zumber et holding	=		127	4. 2 x 4 2 4 4 6 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5		1 4 1 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	5 3	ç# <u>#</u> ##.	17.71
A R	ביוונות יובן שנפיו	=	Arres	1,30,	7.5	120 -54	\$ s. w	8-8	71600	4.000
888	equitio11	-		;	0,001.	36,27,5) st E	11 270	1.550	17.540
#	ւու (որոդրոյ		Vens		24 - 14 - 34 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	100	71.6	000	4 4 4 4 4 4 6 5 1 6 5 9 1 1	10/3
E TAR	« ենու ի և 11	,		Ç	2,522 0,40,0	1 2	2. 2. 0.1 2. 2. 0.1	1,109	1,07,11,07,11,107,1107,11,107,1107,11,107,1107,11,107,11	1,160
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thon's	to the control of the	61		1.	* 488 948	. 30	н п		*11 +	١.
	Remarks	20			5-					

ia) Includes is acres feld v Mr. Petler under exemptior ofrer enue,

FORM. NO. 1.—Table showing for each Township Statistics of existing Circles for the year ending 31st March 1893—concluded.

	District.		2	Tounge		-papη[σασ*	~	Sbreggin		Salwoen		
	Township.	3	Myoma Zeyawadi		Thageya Kyathaungdaung Kaun	,	Total	Shwegrin Kyaukkri Pyuntaza Kyakto	Total	Papan	Total Tenasserim Divi-	GRAND TOTAL LOWER
A.	Number of circles.	+	n 0		a. • +		14	was was	18	6	724	785
	Revenue Inspectors.	5	1 1	رة م			-					8
	Тъпкузя.	0	* 4	٠.	574		=	40404	=	9	22	663
	Lujkevlēs.	7	1 1	i	1:1				10	ı	22	416
	Fotol area of district.	so	Acres. 11,285 1,236,480	300,500	729,600		4,006.560	507,400 1,175,320 597,520 391,670 602,880	3,473,250	2,973,440	19,817,630	\$4,691,584
AREA AND	E hoteritio()	6	Acres. 9,034 63,559	8,374	17.0° 1.17.1 1.15.1	ments to the	115,014	17,000 21,215 131,757 15,757 75,516	193,541	110,61	1,055,517	5,094,642 1,01,-9,902
KA AND REVENUE.	Total assessment.	10	Rs. 10,198 53,867	6,738	26.05 2.08 2.19		93,497	20,239 27,5050 71,500 17,500 1,1500 1	3,4%,100	13,930	15,09,391	1,01,75,902
	Number of holdings.	=	55,17	1,533	125 25 25 25 25 25 25 25 25 25 25 25 25 2		15,381	5.13 5.13 5.13 5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.0	31,984	7,737	178,463	6,50,03,6
SPECTOR.	Cultivated area.	2		7115,018			115,018	293,641	293,641	16,911	130,788	17,105
SPECTOR.	Holdings.	5		15,381	<u></u>	e to e la	15,3%	31,984	31.984	7,737	15,495	:8,462
THEGY1,	Cultivated area,	11	2,258	4,187	4,410 857 354		5,00:	4.25 7.405 65,853 75,505 77,806	10,074	2,518	\$10.8	9,193
-	.eynibloli	1.5	375	162	1746		699	\$1568 \$1568	2,2%3	1,289	Ct 6	1,448
TORS.	Number newly appoint- ed during the year.	15	1 1	:	111			11111	<u> </u>	•	إنا	80
	Number newly appoint- ed during the year,	1.1	i % -	•	:::			11111	1	;	2	€
TRUGEIS.	Number of those newly appointed who have not passed cxamination in surveying.	18	1 1	1	:::			11111	1	:	5	17
	Number previously appointed who, though required to pass the survey examination, and yet passed,	61		4	n ; ;	17	3	11111	1	:	• 26	25
	Remarks.	30	(a) Two thugyis from town in- cluded. (b) One thugri less on account of appointment of village head- men in Kaungyao circle to	collect revenue. (c) Seventeen headmen appointed in place of a thugyi.		in place of a thegy. District surveyor. Increase of one circle and one thusysi on account of the thusysi on account of the coming under assessment.						

FORM NO 11 A - Area and gross Demand on the Land on which Revenue was assessed.

				•6 15 <u>,</u> 1		<u>.</u> v 250	1792-93		4	INCREASE OR DECREASE	DECREAS	,4	Psrc	PERCENTAGE OF IMPRESSE OR DECREASE.	F INCREA	SK OR DB	CREASE.
Newson.	District.	[Vewrigtion of land	Number of tau ** * * as	A'ca	Gro dema d	\amber taa gas	Ara	thoused,	Number of taunquas	- Vuca	ď	Gross	Number of taungyas	Syas	Arca .	1	Gross
1.	-		-	3	٥		ĸ	6	0	=	1	11	ı.		,	-	15
Akvab		Padit land Taunaa Alother land	0 6+	Acres 6 "31 1 4 4	400	4	Acre 494 3 9 14	R. 0.7047-	ect -	11+	802	Ps 873 + 17 308 + 17 335	,	\$3.5	Acres = 235 = 626 + 3119	414	89.00 00.00 00.00 00.00
		Total	4 920	146.16	8 . 01	4 612	8 \$ 90	"	- 30	+	!	+ 18,050	1	, ž.	- 8	+	1.77
Norther	Northern Arakan	Profit and Taingra 1 out of land	,		3735	980 7	8,1.2 2.000	980'+	+	+	207	138	+	0,40	\$ 6 +	+	6.6
ARAKAN		Ictal	3/3	9 470	3735	4,0 6	10171	9,0+	+ 33.1	+	8	+ 351	+	o to	+ 74	+	g o
Куацеруц	pyu	Padditana (Podditana (A other land	-6 +	1005 4 9 ct 9 ct	144,61	4 33.	91 9	145%		+1+	5.4	+ 1491 + 62 + 75	1	1 35	+1+	+1+	1.35 0.55
		Total	6.4	110.3	17 25	. 1	£8 611	1 64 129	- 63	+	810	+ 1 504	1	1 35	+	4	66.6
Sandoway	way .	Paddy land Taungya All other land	304,	1 64	5 °35 0 1 14 51	5/62	4.8. 6.88. 4.8.		+ 352	++1	981 704 4,5,0	+ 1%c	+	11.27	++ 48 49	++1	52.74 50.74
		Total	3 343	88	739	3.95	31 100	\$ 50	4 3 3.	1	2 905	- 4.573	4	11.57	61.5 -	1	6 23
.	Total	Pady and Tangya	16 %	353	12,91	. 151	63 ,3 2 51,255 11 185	11,711 3 12,030 12,1030	+	1++	10,047	+ 4,330	+		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+++	9304
		Total Arakan division	\$6.91	776 179	1 71 148	820,71	L. 128.	12,5,84	+ 333	+	9,604	+ 15433	+	2	+ 134	+	•

(a) Freluding Ra, 1,333, teven is cribered after 31st March, which has intentionally been shown in Statement No 🏚

FORM NO. II.A. - Area and gross Demand on the Land on which Revenue was assessed - continued.

						1801-02			1892-93			INCREASE OR DECREASE		Pricerto	Präcentage of Heritase og Peursnen	. of step
Division Dis	District.	·å	Description offand.	ai e	Number of Gaungyas:	Ara.	Græss demand.	Number of tdangy2s.	Ārea,	Gross demand.	Number of taungyas.	Area.	Gross demand.	Number of taungyas.	Area	Gress demand,
-			3		-	\$	9	7	8	6	, 01	=	n	61	11	15
						Acres,	á	-	Acres,	Rs.		Ages.	Rs.	•	Acrss.	3
Rang	Rangoon Town.	Taungo Ali other land	1.! !	1,1	111	1,134	1,314 8,507	111	1,103	2,258	111	5 \$; ·	\$ £1 : !, +	1111	66.1 +	j +
			Total	ं. . स	:	3,966	10.911	:	3,953	10,894		+ 17	+ 63	:	£ 0.43	+
H .	Hantha.	Prddy-land Taungya Ail biher land	111	111	111	485,795	,1,028,749	111	\$02,174 	16,84,131	111	+ 16,379 + 5,953	+ 55,383	111.	+ 337	* * *
	1991	•	Total	: 2		528,139	1,125,652		550,471	11,89,395*		+ 22,333	+ 62,743	:	+ 4.33	+
Prav Pegu	, F	Paddy-land Tanngya '		111	; ⁸ :	774,380 580 34,115	14,43,744*	 	803,548 478 54,840	17,43,639 358 44,739	5, 1 , 1	+ 29,168 - 102 + · 17,424	+ 3,00,895 - 135 + 137		+ 378	+1+
-			Total	::	262	809,076	14,87,889	522	855,556	17,88,786	15 -	o6*'9 * +	+ 3,00,597	- 17.59	+ 5475	+
Tha	Tharra- {	Paddy-land Faungya All other land	111	:::	871	328,944	5,35,994	\$9c*t	336.595	5,84,892	+ 397	+ 7,651 + 7,94 + 138	***** ****	+ +5.38	+++	+ 45.64
 -	٠.		Total	***	871	355,500	5,31,509	1,168	353,816	6,32,593	+ 397	.+ 8,307	+ 51,083	+ 45.88	+ 2734	+
Produce	4	Faddy-land Taungya All other land		; ; ;	\$15.	7,1,120	2,51,588 9,081 46,537		271,789 15,037 26,081	2,594784	#F :	+ 3,617	+ 7.596	05.62	+ 31°07 - 23°37	+ 3'02 + 20'00 + 2'13'
. •			. Tot	otal	4.315	317,565	3,07,205	168	313,907	3,05,340 .	3,422	- 4,658	- 866	- 79.30	27.1 -	1
Total	Ψ.	Paddy-land Taungya All other land	111		5.476	1,851,365	32,51,399 1 Q. 589 3,40,808	2,400	1,915,209	35,74,104 13,175 139,728	3,075	+ \$2,814 + 4,379 + 15,33\$	+ 4,12,795 + 2,293 - 1,040	11.98.1	+ 31.36 + 31.36 + 10.10	+ 4265
- ,		Total	Total Pegu division	798	5,476	2,014,255	33,13,087	1,400	2.056.743	20.27.007	9202 -	4 33 18	+ 413.920	21.05	4 3.60	+ 1178

. Includes Rs. 9,000, grant of Coco islands,

(3) In this 2 sam of Rs. 1,062 on account of royalty on bricks is included.

FORM. NO. 11-A.—Area una gross wemann on the Lanu ou which revenue was assessed—continued.

*						1691-02			65-581		· -]	NEREASE OR DECERASE.	.3.556.	PERCENTAG	PERCENTAGE OF INCREASE OR DECREASES.	E OR DE	3 1
Division District.	tį	Descript	Description of land.	n d	Number of tanngyas.	Area.	Gross demand.	Number of tauesyas.	Area.	Gross demand.	Number of taungyes,	• Area.	Gress demand.	Number of taubgyas.	• • •		Gress
		. 3	3		-		6	7	. 3		51	ı.		53	- =	1.	5
-		ŀ				Acres.	ž		. Acres.	. R.	5.	Acres.	8.		Acres.		88
Thôngwa	~	Paddy-lånd Taungya All other land		41	111	527.871	11,70,439	• !!! :	. 650,257 .	14,50,965	111	+ 123,396	+ 3,10,536	,111	+ 2536	+ +	19.91
	<u>.</u>	. : '	· Tetal		• ; •	118,482	121,79,21		759-537	.15,31,007		95.4. +	+ 3,23,976		+ 31.73	· + · •	24.38
Bassein	<u> </u>	Parldy-land Taungywa All other land		: : :	83.1	605,428 4,360 -47,541	. 8.69.263 * 1,777 63.342	1,032	.635,421 1,05,2 1,57,5	\$6.54.0 \$25,0 \$15.46 \$15.40	148	+ 35,993	+ 55,629 + 231 128 + 871	13.21	+ + + + + + + + + + + + + + + + + + + +	.+1+	
GUVMY			Total	1	1,180	. 635,339	9,34,332	1,032	668.338	163,06.9	.1	. 4. 33.029 ·	4 56,569	- 12'54	cz.5 +	+ .	570
Henzada		Paddy-fand Taungya	117	. 11	950,1.	373,835 2,072 33,038	6,35,924 1,501	. 1.1.33	350.900 13.356 53.914	654210 1,725 94,120	· 8	+ 7,097 + 194 + 195036	++ 18,235 ++ 13,235 ++ 13,547		8.0.8 -0.8 +++	+++	1. 1
	•	•••	Total	٠.	1,036	40%945	7,08,998	æri.	. 36,236	7.50,250	. 97	+ 27,84	+ 41,233	, 9:3¢ +	+ 6.67	+	
Thayethyo }	myo Sanng	Paddy-land Jampsya	, 111 		214.7	70,109 24,824 35,634	56,013 10,514 30,577	11021	74,330 24,023 28,166	67,617 15,817 729,82	104	12 8 8 8 4 1 1	+ 10,761 - 601 - 5,990	333	+ 5'85 - 373	+11	1 1
	· ',		Ťeta!	. 1.	12,413	156'621 •	1,08,5c6	110,11	817,021	1,10,621		. 1.573	tu3	3.23	.60.1	+	•
<u>. Z</u>	Paddy.	Paddy land Faungya All other land	111	: i ! •		1.4577.263 20.255 145,057	2022/20 2021/2	14,176	702 202 202 202 202 202 202 202 203 203 2	3,23,652	154	+ 166,531 - 504 + 17,266	+ 3,95,455	3:00	95.01 + +	4140	3.1.6
	. .	Total Intakaddy division	y division	:	14,628	1,757,575	36,45,949	14.76	1,934,519	34,72,865	759	+ 152,943	+ 4,25,916	3.00	*** *******	!	

APPENDICES

XXXIX,

FORM No. 11.A. - Area and gnoss Demand on the Land on which Revenue was astessed -concluded,

•							1891-92		4,11	1892-93	•	. Inc	INCREASE, OF	OR DECREASE.	, j.	Per	Perturate	180		OF INCREASE OR DURBASE
Division.	District.		Description of lands.	ands.	<u> </u>	Number of taungyas.	· Area.	Gross demand.	Number of toungras.	Area.	Cross demand.	Number of taungyad.	Aréa		Gress de- mand.	Number of taungyas	Number of laungyas.	Area		Gross
			r.				9	9	7	« <u>.</u>	6	. 01	-		12.	13		414	1	Ц
							Acres.	: Rs.	•	. Acres.	, Rs.	. (-	· Acres.	.5.	Rs.	•	•	Acres.		
: =	Amherst	Paddy-land Tawegya All other land	;;;	i,	1-1.]	, 5, 10¢	358,261	6,53,552 6,106 19,106	* .	40% ADZ -	7,16,264 5,140 93,659	. # . +	+++	20,34! 6S 702	+ 62,613 + 34	+ .	. 95.	+++	5721 0°56 1°67	.+++
144-141			. ·	Total .	1	6,105	112,487	7.51,625	· 0,140·	463,493	8,15,063	7	+	ildu	+ 54,438	+	0.26	.+	4.75	+
	Taxoy	Faddy-land Taungya All other land	.111		111	otrc't 33	56,385 8,430 20,378	88,409 4,240 4,340	3,40%	53,095 6,815 20,534	90,236 30,408 43,757	- E	+14	11,681	+ (\$27 + 832 + 168	. (19.63	*1+	19°62 0°91	+1+
		•		Total	-	. 4.240	85.43	1,36,248	3,405	84.75	1,37,411	155.	i.	191	+ 1,163	1.	:9.61	1	36,0	+
118395	Mergni	Paddy-land Taungya A Jother land	111	, i i i	111	3,306.	41,000	53,010	; " ,	6425 6425 11499	70.334 24.3 37.734	S ; ; ;	+11	. 511. 981 .	+ 329	.1* 1	1.81	+11	2.35	+11
VHE	SZ Chris		H	Total	,:	3,396	59,55	98,751	3,21,1	(6,149	1,01,301	- 83	+	888	+ 2,550	1	18,2	+	05.7	+
	Toumgec	Paddy-land Taungya	•· . i:::	 	111	3,147	95,431 6,137 6,377	3,147	7, 2,8%	10% 63 57.56 5.766 5.766		197	+ 1+1	3,812	+ 5,571 + 5,571	- 1	8.30	+11	8.39	+ 1-1
			1	Total .	!	3,147	105'fW	\$20.29	1,83	59,032	Ler're	Pgg .	+	2	103	,	S-33	. +	500	. 1
	Shweggin	Paddy-land Taungya	ĻĖ	111	111	6,631	184,134	2,70,°15 6,31 39,709	\$655	1. 202.183 13.833 13.833 13.833 13.833	5,00,544 6.567 39,508	\$. ! +	+++	045	+ .45,729 + 65.	. +	85.0	+++	10.00	+++
	٠			Total	<u> </u>	6.531	Troperc	3,10,655	y59'9 .	138,913	345,190	15	+	14.371	+ 31,445	+.	85.0	÷.	29.9	+
	Salween	Paddivland Taungva	111	.111		.: , :	9,324	5,007 4,652 3,885	39	\$5.00 \$5.00 \$5.00	500 M	 	+++.	1 2 8 8	+++	+.	14.35	+ • 9'01 + 14'37 + 5'57	5133	+++
	*			Tetal	<u> :</u>	1,663	14,942	12,35	città	167,291	12,927	+	+	1,549	+ 1.165	+	16,21	<u>-</u>	17.37	+
+,	Total	Paddy-lattl Tangya All office land	; ;;;	111	1 1 1	1,50,55	750,184 55,784 54,784	11,65,426	8.	55,400	27,75, 27,75 27,75 27,75,4	333	+11	2,505.2	1,01,345	1.	of L	+113	6.60	+11
•	165	Total Ten	Total Tenasserim division		1	17,00,74	9:0,923	14,08,032	27,780	\$16.136	150 (25)	352	†	1.0.7	058,00,1 ±	1	υ÷.1	+	.16.+	+
	GRAND TOTAL LOWER BURNA	Faddy land Taungya All other and	111	 	<u></u>	107%g	131,772	8,4%,217 77,213 8,63,335	POC'55	760,521 030,21 760,525 760,525	23,045 78,733 94,504	188.	+++.	254.67 527.7 60.198	8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$30	67.63. + \$7.63 + + 10.03	820	*+++
		Grinn Torte, Lawen Borne	it, Lowen	BORMA	1_	15449	5451.83	W.30.446	100°Cg.	\$15.00	1,01,35,045	- 3,537	4+	307.017 ;	€15.55.0 ÷	1	5.50	5 ++.	5.53	4

xl.

APPENDICES.

FORM No. II-B.—Number of Fruit-trees separately assessed.

			1	189	1-93	189	 93-93	INCREASE O	R DECREASE,	e. Percentage
Division.	D _i	strict.		Number of trees.	Gross demand.	Number of trees.	Gross demand.	Number,	Gross demand.	Percentage of increase or decrease (demand.)
В		*		3	. 4	. 5	6 .	, .	8	٠, ,
-			ř	-	Rs,		Ŗs.	•	Rs.	
. (Akyah	'	1/2	320	. 175	240	155	- 80	- 20	≟ 114;
AN.	Northern Arakan	iy			in.					
ARAKAN.	Kyaukpyu		****	1,861	233	2,011	251	+ ,150	+ 18	+ 7'7
. [Sandoway			1,620	. 203	1,707	213	+ , 87	•+ 10	+ 40
Andre Competen		Total	5, K	3,801	. 611	3,959	619	+ 157	+ 8	. 1731
ſ	Rangoon Town									
	Hanthawaddy	n		1,009	570	1,665	572	- 4	4	6
Prou.	Pegu			- 1,077	. 201	1,034	279	- 43	- 12	- 4:11
1	Tharrawaddy	· ·		10,058	i,515	10,990	2,745	+ 922	· † 73 0	+ 9.1
}	Prome	··· • · · · ·		82,736	21,066	4 84,151	21,326	+ 1,115	+ 260	+ , 112
		Total		95,540	24,448	97,830	24,922	+ 2,290	+ 474	+ 1'9
	rg Rosensa m				2					
-	Thôngwa			10,284	2,571	15,328	3,832	+ 5,044	+ 1,261	+ 40.0
IRRAWADDT.	Bacsoin Henzada	3600 600		3,943	1,029	,4,596 18,020	1,167	+ 653	+ 138	c+ 8:00
=	Thayetmyo			16,671	4,168	15,842	4,505° 3,893	+ 1,340 - 467	- 110	- 12:75
		Total		47,207	11771	53.786	13,397	→ 6,579	+ 1,626	+ 13.81
	Amherst			380	• 95			- 380	- 95	1qt
1	Tavoy			!						· ",
ERIX.	Mergai				•	·'	••	1		
TENASSERIA.	Fonugoo		٠	3,504	865	3,491	. 863	- 13	- '. 1	- 0.31
	Shwegyin			91	23	124	31.	+ 33	+ 8	+ 34.76
ţ	Salween	:				- × **	k parting			· · ·
	76 E	¥ 588—179								
		Total	. "	3,975	983	3,615	894	- 360	- 89	+ 0.03
	GRAND TOTAL,	LOWER BURN		1,50,523	37,813	1,59,189	30,832	+ 8,666	+. 8,019	. + ' 3 '34

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a NO. 1111 - Return of Kainfall for the year engl	
M NO. 1111 - Return of Kainfall for the year end	
RENO. 1111 - Return of Kainfall for the year engl	
DRE NO. 1111 - Return of Kainfall for the year engl	
ORB NO. 1111 - Return of Kainfall for the year engl	
PORM MG. Illis-Keturn of Rainfall for the year engl	
FORE NO. 1111st Return of Kainfall for the year engl	
FORM NO. 1111st Return of Kainfall for the year engl	
PORE NO. ILLE-Return of Rainfall for the year engine the 31st December 1805 in inches and 3 sather thereof	

Company Comp											AKTAK.		z	Mornes.		¥	Krantere.		3	
Present Pres	Division				Mouth.				Akvab town.	waligani	Sucabadia	Survey.		Phlotwa	Kyanapyu	Remree.		M		ramobras agor
Controller Con					11111	11111	11111			<u> </u>		88		82.5	. 1 1 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	• 1 1 1 7 2			88.5.5	ij Pg
Principle Prin	-	<u> </u>		1	1111	1111		. :	•			1000 1000 1000 1000	35.41 45.55 25.21 18.20	31.34 19.07 17.90	. 38.05 61.10 33.75 19.83	94.14 11.69 11.49			17.13 17.10 17.10	35'07 66'89 25'93
Total for see month, lotter in the late of the late		ěžă ————————————————————————————————————	prethlyer	1 ()	131	; } }			-	•	. ; :	. 36.		0.15	3.19-	•		•		82.
		ــــــــــــــــــــــــــــــــــــــ	Total for fiv Total for for Potal for the	e months, Ja ur months, It ree months, 6	nuar to May aue to Septen Setober to De	aber centiter	112		l.,,			5.28	13.20 125.39 14.32	. 1170 86.13	157.80	\$0.51 \$0.071	<u> </u>	<u> </u>	88.20	150.13
Parents Pare				.1:		٠	. T.				1:	5.14	15231	. 98-801	183.33	174.03		10	LE II	17178
Property Part Par	÷								•										•	
Photoparameter Paris Par		ll 	,				Rangoon.	HANTUA-	P.	,			TRA	TRAWADDY.				-	PROME.	
	Dietsfon,		•	donth.			.nwot ne			Tues	Аррим	Капк.		. ,					791	Sang
Petrial Petr				24 52			Kangoo	Hmawb	Fegu.	Myaukt	уютюлТ 	Gyoping	Yegin,	Qrbo.	Nigón,	Mattall	.unde_L	Prome	pguned,	Speeds
University Line L	•	January Pebruary March March March March March March May M	11541		•	11,111	75.4 11.6 11.6	11.23	24.3	. 1.15 0.03 11.63	1 1 2 4 1	1 2 2 2	1.18	1112	1 : : : 5	11.	, 111 ₂ ¥	11:52 573 573		111.60
October Sign Sets Sets Sign	Prot	huse August August September				1111	1672 2175 1767 13°68	23.73	17.30	15'96 .30'73 12'69 23'05	1895	1608 1278 1375	1354	15.65 17.74 77.33	17.88 11.88 11.14	. 13.85 71.52 71.58	. 11.48 12.10 5.53 5.61	5.08 10.13 6.16 5.88	8.118 8.93 8.93	5681 1030 579 711
. Total for five months, Jannair 10 May		October November December		111		T ES,E	3.59	52.2	57.3	8%	\$50 ·	3.15	2 .	3.35	5.80	5. tr :	3.6	71.	6.89	31.
Total 93'77 118'30 112'77 88'977 60'56 60'36 77'51 55'42 47'01 40'31 399'9			for five months, J for four mouths, for three months,	aneary to M: fune to Septe October to D		11.	.9.61 69.82 8.70	14.75	25.25	12.91 89.43 16.93	7.85	47.48	14.17	6507	38'71 8'8'71	36.06	808 27.2 14.41	7.15 3731 585	8.90	97.16
			8		Total		87.15		<u> </u>	112.37	88.97	99.99	96.39	77.51	59.42	\$3.30	10.47	40.31	88.8	Ę

Form No. 111.—Return of Rainfall for the year ending the 31st December 1892 in Inches and Tenth's thereof—continued.

THOROWA. BASSEIF.	.awyidT	1.6	1) i	19'65 * 37'63 20'16 \$'89	3.55	20.50 86.83 8°03	198,511			Kama.	123		63.00			****
	Kyonpyaw.	15	 0.20 7.72	. 4799 . 19731 19731	513	0833 610	84.24					8,	6-F5 11727 5-27 - 5-55	0.38	9 5 8 8 5 8	
	Labutta.	7		27.55 27.05 10°61 20°75	573	28.34 87.50 81.5	128.45		THAVETHYO.	, mobai M	32	, ff ii				100 100 100
	My 3. u a g-	£1 ·	111-2	3371	10.0 ·	1364 6733	\$5.06		Тнл	Thayetmyo.	+35.		25.05 25.05	41.5 6.15	og H gtb	ACT 100 A 100 A 100 A
	Ngathaing- gyaeng.	. a	8.00 P	14.35 14.39 14.39	. 3.19.	873	82.56					. 2.5		1 = 2	28-49 3-85 3-85	1000
	Waspataw.	=		8728 8728 8778	3.61	13.87	213.18			Myedê,	7	270 188				*
	Basein fown,	10	11.10	13.52	1,16	1334.	#.101.		*	4.emyethna.	23 .	11168	1733 2113 10'20 10'87	5.68 4.	59.53	* 657 - 127 5
	L)cdayb.	6	111.25	14.93 45.92 16.14	3.36	93.73	06,211		-	Kysugin.	33	111.	15.15	61.4	35.61	
	Pyapón,	00	8.65	17.40	3.93	53.43	14.34					501.8	10°19 17°31 17°01 4°89	473 8890	39.71	-
	Wakanib.	7	1117-11	30.87 10.15	715	352	\$5.38		Hsvzaba.	-Yaneuc Ay	31,			100	•	
	Pantanaw.	9	7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	27.59 23.50 7.25	5.24	19.47	66.06		H	Kanaung.	or.	1110	16.81	,	30.00	
	Yandoon,	S	1 : :	1970	5.13	69.74	50.16	•		Okpo.	. 61	25.51	12.85 12.60 7.05	437	5374	
		4	11.001	18759 1759 14764 1317	3.85	73.55	11.16		٠		-	. 23	2122	5.36	88.17	
	Ma-u bin town,	3	. 2.65 11.70	13'44 26'59 19'43.	2.33	15.16	89.37			Henzada.	1.8		17.12	154	16.37	
			111111	1111	Tii	<u> </u>	•	<u>}</u>		•		11111	•	111	1,11	1
			11111	1111	111	111	Totai					i Hirid.	11,11	111	(1.1	
			1111	1111	111	1:1	*					11:11	1111	الوا ا	111	100 00 70
			1 11 11	11,11	111		•					1111	irri.	116	100	
	Month,	-	.11111	1111	111	y to May September to Depen				Month.		1111	1111	111	Septemb	-
			1111	1111	111	s, Januar s, June to	•					1.1111	1114	111	To de la constant de	-
			, Fili	14 ; 1	111	Total for five months, January to May . Total for four months, June to September Total for three months, October to December	•					IJIII	1111		fee stouch fee pionth bree month	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	Olvielon.		January . February March * April May	June August Soptember	October November . December	Total for f	•	.				fanum. February March April	June Aufr Angust September	October November December	20 m	をはいていていいか

FORM NO. MI. Return of Rainfall for the year ending the vist December 1802 in Inches and Tenth's thereof-concluded.

v.	APPENDICES.														×lin	
Papun.	1	. 1	2	8.0	19.83	18.35	\$9.48	15'65	8.95	249	1.51	١,	28.15	22.22	, 7.06	16.101
Kyaukkyi.	1	•	٠,	ı	09.4:	59.61	95.62	. 8	18-73	99.0		i .	92.51	75.00	99.0	61.68
- Juliia		.n*.	1:37	£9.	02.02	19.14	10.43	89.17	28.72	3.6	2.74	1	36.60	137'50	5.11	28.691
Pyuntaza.	r	:	1.70	61.1	15.90	77.55	28.38	16,22	30.18	98.4	9.0	•1	18.79	*8.*6	5.84	11.6.11
Kyaikto.	•	ï	1,01	6r.	17.14	31.23	. 39.73	28'09	31.15	.52	311	i	91.11	130.30	26.5	12.13
Shwestin	ı	Ī	%.	. 5.98	15.58	23'41	33.60	\$5.52	82.61	\$.83	1.58	1	\$4.22	101.04	7.41	130.61
Tonugoo.	1	: :	£0.	8.9	, u.s	.0.38	18.36	12.73	13.21	72.2	2	· ·	01.11	. 5	. 8:8	85.33
-Майжио.	91.0	• :	96.+		22.84	8	21.32	13.86	24.82	13.43	01.4	8.6	36.37	74.05	20052	131.04
Mergul.	0.01	3.10	2.33	6.53	25.89	15.37	35.81	3.8	10.01	84.9	3.08		65.14	8479	98.6	13,5,11
South-Eastern.	1	è.	5.2	7.23	34.34	10.01	12.05	06.51	37.80	3.70	1.13	. !	1	137.83	5.93	178.49
Western.	•	1.63	\$ 5.74	\$775	\$3.40	14.38	99.95	23.75	36.30	1.61	3.21	•	16.91	01.171	5.49	193.06
Мотећетв,	1	:	01.6	5.22	82.22	10.71	\$3.63	28.46	36.11	87	1.73	. !	-37.74	75.021	3.03	183.31
,voveT	i	1.32	\$.03	5.43	56.92	22.33	:+.9+	. 15.42	. 34.35	1.96.1	11.5	1.	38.80	118.33	61.9	173.46
.notedT	.1	.;	3.23	14.39	13.62	35.12	91.59	16.01	£33	Ę	3.67	١.	8.16	18.981	839	90:250
Moglimein.	i	ë.	,	2.66	23.10	13.13	11.23	. 12731	43.62	3.	1.36	1	31.63.	13.4.61	7.03	123.77
Month.	January	Pebruary	March	April	May	Juné	July	Aagust	September	October	November	Décember .a,	Total for five months, January to May	Total for four mouths, June to September	Total for three months, October to December	Total
	Moulimein. Thaton. Thaton. Mestern. Millwun.	Anneay Moylmein. Thaton. Moylmein. Morketin. South-Eastern. South-Eastern. Moylmein. Morketin. Morketin. South-Eastern. Moylmein. Moylmein. Moylmein.	The formany The f	Match Tonnern Mouthern Mouth. South-Eastern	Jamary	Month. Month. Month. Month. Month. Month. Monthern. Month. Month.	Month. Month. Month. Morthern. Morthern.	Month. Month. Month. Modifmein. Rebusay	Month. Another Market M	Month. Month.	Month. Another	North	North	Prehatary	Month. Note Perchast Month Mo	Morth March

FORM A.—Showing Total Acreage, Classification of Areas, Irrigation, Crops, Current Fallows,
In this form are incorporated Forms A. B.

Presidency or province.			Northern Arakan,	Kraukpyu.	Sandoway	Total Arakan	Rangoon town.	Hanthawaddy,	Pegu.	Tharrayeaddy.	Prome	Total Pogu.	Thougan
			Actes.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Aeres.	Agres,
a. Deduct (6) Al	in Professional Survey rudatory and tributary States ea for which no returns exist fessional Survey	3,54 2, 400 3,542,400	649,600	2,757,760 2,757,760 2,757,760	 (2,459,648	9,409,408 9,409,409 9,479,408	 14,080	1,246,686	1,553,954 1,353,951 1,553,951	1,288,000 1,288,060	1,847,6Ro		2,518,176
1. Foresta 2. Not available to 3. Culturable wast 4. Surrent fallows		661,847 1,987,473 37,236 553,814	420,502	3,301,005	2,390,731	6,170,085 2,450,013 41,490 738,820	12,212 483 1,385	205,096 218.33° 257.768 36,123 529,161	255,640 414,038 37,113 30,641 815,532	615,860 283,180 15,000 13,751 361,069	260,172 970,181 293,445 23,541	1,337,768 1,898,040 603,869 104,256 2,007,478	1,303,584 9,960
Irrigated during	(a) Government canals (b) Private canals (c) Tranks (d) Wells (e) Other sources				·::			408	- ::			 	•
	Total area irrigated	·						408			·	408	·
Crops brigated	(a) Wheat (b) Other cereals and pulses (c) Miscellancous food-crep (d) Miscellancous non-food-crops.						 	408			: :	408	
English .	or Pernucutar names.						, .				-	•	
Cereals and pulses	1. Rice 2. Wheat 3. Barley 4. Cholini or jowar (millet) 5. Chimbi or barra (millet) 6. Ragi or mandus 7. Maize 6. Gram (pulse) 9. Other tood-grains including pulses.	517,705	3,272	130,320 	- 40,244	677.541		\$492,751 	801;604 237	331,816	254,579	553 3,444	710,785
OH-seeds	(10. Linseed	1,802	2,400		• 1,041	3,447 1,863		 96	::	3,826	3,214	7.136	7,427
Sugar Fibres	15. Conditions and spices 14. Sugarcont 15. Other 16. Cotton 17. Jule 18. Others 1	3,715	2,560	862 	279 1,025 242	6,457		 460 	1. 1. 1. 1.	386 496	1,050	2,446	120
Dycs	10. Indigo	::	2,000	51	 	6,737			 			6,849	1,350
Drugs and narcotics	25. Cinchona 26. sludian hemp 27. Others 28. Fedder crops 29. Orchards and garden pro-			5,420		3.,828	282	26,293	.	4,561	2,203	50,243	
	30. Miscellaneous Food crops: Non Foo	d. 4,119		152		11,893		2,8% 6,50%		4,901	98,278	46,553 7,264	28,95
	31. Tetal	553,814	10,17,	119,620	\$5,214	738,820	1,3%	529,161	815,522	30,060	380,341	2,007,478	759.54
	32. Area cropped more than ome. 33. (31-32) Net area cropped during the year.		30;17	119,620	55,914	738,820	1,385	529,181	815,542	36.06	300,34	2007,478	759,51
6. Sheep 7. Goats 8. Horses and po 9. Mules and don 10. Camels 11. Ploughs	aives and bufface caives)	50,40 50,40 40,65	8	0 24.45 0 8,93 0 12,30 1 41,09	5,000 0,7,880 8,923 4 13,143 5 710 0 163	92,38, 67,03 61,93 165,70 11 10 10 105,80	5 1,139 7 371 781 781 1,513 1,420 8 2,937	3,396 18,116 8,913 12,860 1,071 321	6, 287 38,953 16,891 18,060 1,634 827	22,95 13,20 11,12 16,03 49 87	2 20,6,1 2 13,22 5 9,00, 16,82 1 , 93 3 74 5 37,63	50,425 0 83,600 4 40,300 7 64,500 2,500 5 5,50 7 5,764	

Increase due to the transfer of Civaletva circle from bassein.